

Bulletin of the

# NATIVE PLANT SOCIETY OF OREGON

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

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VOLUME 25 NUMBER 5

MAY 1992

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Native Plant Society of Oregon PO Box 902, Eugene OR 97402

Membership inquiries: Jan Dobak, Membership, 2584 NW Savier St., Portland OR 97210-2412

For more society information, see the inside back cover.

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. Please contact the trip leader for information about difficulty, mileage, and terrain. Participation is at your own risk. Bring water and lunch. All NPSO activities are open to the public at no charge (other than carpool mileage), and friends, newcomers and visitors are always welcome.

**Notice to field trip chairs and leaders:** The Forest Service and other Federal agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit the human impact on these fragile areas. Each group using wilderness must be no larger than 12.

## STATE NEWS

5-7 June, Fri.-Sun.

ANNUAL MEETING. See the insert and the article on p. 59 for more information.

7 June, Sun.

STATE BOARD MEETING. 10am. All invited. This will take place at the Annual Meeting at Malheur Field Station.

## CHAPTER NEWS

### Blue Mountain

For information on any Blue Mountain Chapter activities, call Jerry Baker (566-2244).

### Corvallis

10 May, Sun

FIELD TRIP to look for *Delphinium pavonaceum*. Meet at 2pm in the parking lot across from the Monroe Street Beanery. Bring raingear and lunch. Contact Esther McEvoy (754-0893) for more information.

12 May., Tues.

MEETING. 7:30 pm in Corl House, 3975 NW Witham Hill Rd., Corvallis. Duncan Thomas will give a slide show on botanizing Africa's forests and savannas

30 May, Sat.

FIELD TRIP to Mary's Peak. Meet at 9am in the parking lot across from the Monroe Street Beanery. Bring raingear and lunch. Contact Esther McEvoy (754-0893) for more information.

## **Emerald**

9 May, Sat.

**FIELD TRIP:** Tom Pringle will lead a trip to Findley Wildlife Refuge to view spring wildflowers. Bring Lunch & hiking shoes. Depart at 9:30am from the parking lot of South Eugene High School, corner of 19th & Patterson. For more information call Tom at 484-0669.

11 May, Mon.

**MEETING.** 7:30 pm in the Library, Kennedy Middle School, 2200 Bailey Hill Road, Eugene. Jennifer Dimling, Emerald Chapter President, will show slides and speak on "Reproductive Biology of Oak Flat *Sidalcea*." (Note: Art McKee of the Andrews Experimental Forest, will not be able to address us as he must testify on new forestry before a U. S. Senate subcommittee on that date.) For more information, call Jenny Dimling, 343-3242. This will be our last meeting until September.

17 May, Sun.

**WILDFLOWER SHOW.** Wildflower Festival at the Mount Pisgah Arboretum in Buford Park, off Seavey Loop Road. Wildflower display by Emerald Chapter NPSO, posters, notecards and T-shirts for sale, food, plant sale, puppet show, guided trail walks, music, books for sale, etc. 10 am to 4 pm. If you can help collect or help set up the show on Saturday, May 16, please call Jenny Dimling at 343-3242, or show up at the Arboretum on Saturday. Thanks!

30 May, Sat.

**FIELD TRIP:** Tour the H. J. Andrews Experimental Forest near Blue River with Site Director Arthur McKee. Both contemporary research and "New Forestry" techniques will be viewed. Depart at 8:30am from the parking lot of South Eugene High School, corner of 19th & Patterson. For more information call John Koenig (935-7677).

## **High Desert**

2 May, Sat.

**FIELD TRIP:** The Lawrence Memorial Grasslands Preserve. The Nature Conservancy owns and manages this 400-acre preserve which features a climax stand of native Oregon bunchgrasses and wild flowers. This will be an easy-to-moderate four-mile roundtrip hike to view the native meadow-steppe ecosystem. For more information contact trip leader Stu Garrett (389-6981 eves).

16 May, Sat.

**FIELD TRIP:** The Painted Hills/John Day Fossil Beds National Monument. This area is managed by the National Park Service. As one of three national monuments, in Oregon, it preserves not only important aspects of biological diversity in the form of several rare plants, but it also protects amazing geological resources. Easy hiking. For more information contact trip leader Stu Garrett (389-6981 eves).

## **Mid-Columbia**

6 May, Wed.

**MEETING.** 7:30pm at the Mosier School. "Botanical Gardens and Native Plant Preservation". Linda McMahan, Executive Director of the Berry Botanic Garden, will give a slide presentation on the techniques used by botanical gardens to preserve native plants, including seed banks, research, and off-site living collections.

## **North Coast**

16 May, Sat.

**FIELD TRIP:** Hike at Cascade Head. Call Jim Winslow (842-2246) for details.

26 May, Tues.

**MEETING.** 7pm at the Carl Rawe Meeting Room, Tillamook PUD, 1115 Pacific, Tillamook. Program to be announced.

## **Portland**

2 May, Sat.

**FIELD TRIP:** Ridgefield Wildlife Refuge. Leave 8am from the Jantzen Beach Safeway parking lot. or meet 8:30am at the preserve entrance. It is approx. 20 miles to Ridgefield exit off I-5. The preserve is located on the NW edge of Ridgefield, Wash. Bring boots, binoculars, and lunch.

- 9 May, Sat. **FIELD TRIP:** McCord Creek in the Columbia River Gorge. Leave at 8am, southwest corner of K-Mart parking lot at 122nd and Sandy. 60 mile roundtrip. Two trails available, hiking distance variable. Call George Lewis (760-2316) eves for more information.
- 12 May, Tues. **MEETING.** 7pm at First United Methodist Church, 1838 SW Jefferson St., Portland. John Christy of The Nature Conservancy will give a presentation on "Wetlands in Oregon".
- 24-25 May, Sun-Mon. **FIELD TRIP:** Memorial Day weekend with the rich botany of Curry County. Meet at 8am at the Gold Beach Ore. Forest Service office (south end of Gold Beach) both days. Gold Beach is 300 miles from Portland. This weekend will be busy so make motel reservations soon. Contact George Lewis (760-2316) eves for brochures.
- 30 May, Sat. **FIELD TRIP:** Hamilton Mountain loop and Hardy Ridge. Leave at 8am both days from the southwest corner of K-Mart parking lot at 122nd and Sandy. 45 minute drive each way. Up to 2500' elevation gain. Call George Lewis (760-2316) eves for more information.
- 7 June, Sat. **FIELD TRIP:** Saddle Mountain. Meet at 8am in front of the Forestry Center next to the Washington Park Zoo. Drive 1.5 hour each way, hike is 4 miles with under 3000' elevation gain.

## Siskiyou

- 8 May, Fri.. **NOTE change of day!** **MEETING.** 7:30pm in Room 171 of the Science Building at Southern Oregon State College. Frank Callahan, native plant expert, will talk on the genus *Calochortus* (mariposa or sego). For information, call David Kennedy (535-6383).
- 23 May, Sat. **FIELD TRIP:** Flat Creek scabland on the Prospect Ranger District. A Wildflower Week activity, jointly sponsored by the NPSO and the Rogue River National Forest. Wayne Rolle, RRNF botanist, will lead a non-strenuous stroll. Meet at Food-For Less parking lot on Biddle Road in Medford at 9am or at Prospect Ranger Station at 9:45am. For information call Wayne Rolle (482-0093).

## Umpqua Valley

- 14 May, Thurs **MEETING.** 7pm, Room 311 of the Douglas County Courthouse, Roseburg, OR. Ted Schattenkerk, our new president, will review high desert and alkali area vegetation on our June 5 field trip on the way to the annual meeting. For information call Richard 673-3709.
- 23 May., Sat **FIELD TRIP.** To King Mountain Rock Garden via Wolf Cr, Coyote Cr to see *Fritillaria glauca*, *F. re curva*, *Lewisia pygmaea* var *nev.*, *Anemone oregana*. Meet 7:45 am BLM parking lot , 777 Garden Valley Road for carpooling, leave 8 am.
- 5 June., Fri. **FIELD TRIP.** To Malheur Field Station via Diamond Lake Hwy 138, Hwy 97 to La Pine, Hwy 31 to Fort Rock, Christmas Valley, Silver Lake, Hwy 395 Wagontire, Burns with stops along the way to view vegetation in the high desert and in alkali areas. Meet 7:45 am BLM parking lot , 777 Garden Valley Road for carpooling, leave 8 am. Our leader, Ted Schattenkerk, spent many years in these areas doing plant surveys.
- 13 June., Sat **FIELD TRIP.** To Hemlock Meadow up North Umpqua's Little River to view Klamath Fawn Lily, *Erythronium klamathense*. Meet 7:45 am BLM parking lot , 777 Garden Valley Road for carpooling, leave at 8 am.

## Willamette Valley

- 2 May, Sat. **FIELD TRIP:** Clint Urey, one of the original founders of the Willamette Valley Chapter of the NPSO, will lead us in a walk around Independence Rock to view many beautiful wildflowers including the exotic blooms of fairy-slipper orchids. Call Clint Urey (581-1805) for place and time.

- 9 May, Sat. exotic blooms of fairly-slipper orchids. Call Clint Urey (581-1805) for place and time.  
**FIELD TRIP:** Margie Willis will lead a 3 hour wildflower walk at Silver Falls State Park. We will meet at 2pm at the lodge in the park. This will be the same weekend that a wildflower show is held at the park, so plan to come early and see the show and then join our hike to the lower falls! You could turn around early and make this a short 1 hour walk. For information, call Margie (364-7772) or Kathy Connelly (393-1834).
- 18 May, Mon. **MEETING/FIELD TRIP:** Meet at 6:30pm in the parking lot of the Safeway located on Edgewater Road in West Salem to carpool to the Delbert Hunter Arboretum in Dallas. Or meet us at the entrance to the Arboretum in Dallas around 7pm. Members of the Delbert Hunter Arboretum will join us in a tour of the grounds. They have emphasized native plants in the assemblage of this beautiful garden. For more information call Kathy Connelly (393-1834).
- 23-25 May, Sat.–Mon. **FIELD TRIP:** Memorial Day Weekend joint to Southwestern Oregon with the Portland Chapter. For further information, contact Wilbur Bluhm (393-2934).

## William Cusick

- 23 May, Sat. **FIELD TRIP:** Kent Coe will lead a walk at the Wallowa-Whitman National Forest's Blue Mountain Crossing of the Oregon Trail Interpretive Area as a commemoration of Wildflower Week. Take a lunch and plan to leave from the LaGrande Safeway parking lot at 8:30am. For more information call Kent (962-7049).

### New State Officers

The Nominating Committee has received the results of the 1992 elections. Newly elected Officers and Directors at Large are listed below. Installation will take place during the Annual Meeting Banquet on Saturday June 6th. Information about the annual meeting is available in the *Bulletin*.

The Nominating Committee would like to extend its thanks to everyone who ran for a position. Your willingness to serve NPSO in this manner is greatly appreciated.

President..... Lisa Croft  
 Vice-President..... Dan Luoma  
 Secretary..... Bruce Rittenhouse  
 Treasurer..... Nancy Wogen  
 Directors at Large..... Jerry Igo  
 ..... Margie Willis  
 ..... Peter Zika

### New Officers for the Portland Chapter

President..... John King  
 First Vice-President (programs) . . . Linda Hardie-Scott  
 Second Vice-President (field trips) . George Lewis  
 Secretary..... Rosemary Kenney  
 Treasurer..... Jean France

### New Officers for the Willamette Valley Chapter

President..... Kathy Connelly  
 Secretary..... Tom Jenkins  
 Treasurer..... Roy Blomgren

### New Officers for the Umpqua Chapter

President..... Ted Schattenkerk

### New Officers for the Siskiyou Chapter

President..... David Kennedy  
 Vice-President ..... Anita Seda  
 Vice-President ..... Linda Knight  
 Secretary-Treasurer ..... John McClendon  
 Publicity ..... Virginia & Paul Lemon  
 Conservation..... Darlene Southworth  
 R & E ..... Rick Prusz

### New Officers for the High Desert Chapter

President..... Cindi O'Neil  
 Secretary-Treasurer ..... Stu Garrett

**LEGISLATIVE NOTES:  
UPDATE ON THE RULE-MAKING FOR HB 2244  
ON CYANIDE HEAP LEACH MINING**

When HB 2244 passed the 1991 Oregon legislative session four state agencies were given the responsibility for developing rules to govern chemical process mining, which means cyanide heap leach mining, in the state. The Department of Geology and Mineral Industries (DOGAMI), the Water Resources Department (WRD), the Oregon Department of Fish and Wildlife (ODFW), and the Department of Environmental Quality (DEQ) have all been engaged in rule-making to implement and hence interpret the new laws. The rule-making was originally supposed to be completed by Dec. 31st, 1991. DOGAMI adopted its rules on Nov. 1st, 1991. DOGAMI is the 'facilitating' or lead agency in the chemical mining application process. Its rules are lengthy and complex but satisfactory except in a few sections. ODFW adopted its rules on Dec. 18th, 1991. The ODFW rules are strong with a few exceptions. The WRD adopted its rules on Dec. 20th, 1991. Their rules are the least controversial and deal mainly with procedural issues. The DEQ began its rule-making before the conception of HB 2244 under its water quality authority, but is the only agency that has not adopted chemical process mining rules.

The DEQ originally scheduled to adopt rules Dec. 13th, 1991. Their draft rules issued spring 1991 were fairly strong. I wrote a letter in support of them. The second draft was greatly weakened and did not even look like the first. The third draft, which I never received, was strong from what I hear. This third draft was not adopted because the mining industry has requested a review of the rules. When I heard about the problems I drafted a letter of concern about the key issues that are presently under debate. The three key areas that are under review are the liners, the covers, and detoxification. The mining companies do not want stringent guidelines in these three areas.

The final rules adopted by the DEQ must set high standards for protecting our state from the sorts of environmental damage this technology has inflicted in Nevada and elsewhere. The final rules must include consistent, long-term monitoring to prevent leakage of toxic chemicals or heavy metals into the environment. Monitoring for leaks must be required to be frequent during and after the operation of the mine. There must be protection of

both ground and surface water from contamination by acidified water accumulation. Processing solutions, heavy metals, and other by-products must be monitored so that leaks can reliably be found, and once found be contained at once. Toxic chemicals, heavy metals, and acid water buildup cannot be allowed to migrate through the soil into the ground or surface waters of our state.

If soils or the available water resources become contaminated with cyanide, heavy metals or other toxins associated with this form of mining, then there is a likelihood that plants and animals in the area will take up these contaminants. In other cyanide mining areas this has had fatal results. Once in the food chain such contaminants will have detrimental effects on the natural ecosystem. Letters are needed to support the adoption of strong, effective rules by DEQ. Please write in the next six weeks to:

Fred Hansen, Director  
State of Oregon  
Department of Environmental Quality  
811 SW 6th Ave.  
Portland OR 97204

Ask in your letter that Mr. Hansen distribute your letter to all the members of the DEQ before final adoption of the proposed chemical process mining rules.

--Esther McEvoy  
Legislative Chair



*Juniperus occidentalis*  
Western juniper  
Drawn by Ramona Hammerly  
from Northwest Trees

## OREGON'S NATURAL DIVERSITY

*The simplest way to measure the natural diversity of an area is to count the number of different native organisms. Another consideration in evaluating an area's value for biological diversity is the number or percentage of organisms that are "endemic"; organisms with local distributions found nowhere else in the world. The numbers of native and endemic species are very high in Oregon.*

**VERTEBRATES:** Oregon harbors about 750 species of native vertebrate animals. Over 30% of the states's 155 native mammals are considered local endemics, as are about 14% of the 115 species of freshwater fish and 34% of the 29 amphibians.

Oregon's natural habitats also support a great number and variety of birds. More than 440 bird species are recorded from Oregon, with 57% of all North American birds occurring regularly in our state.

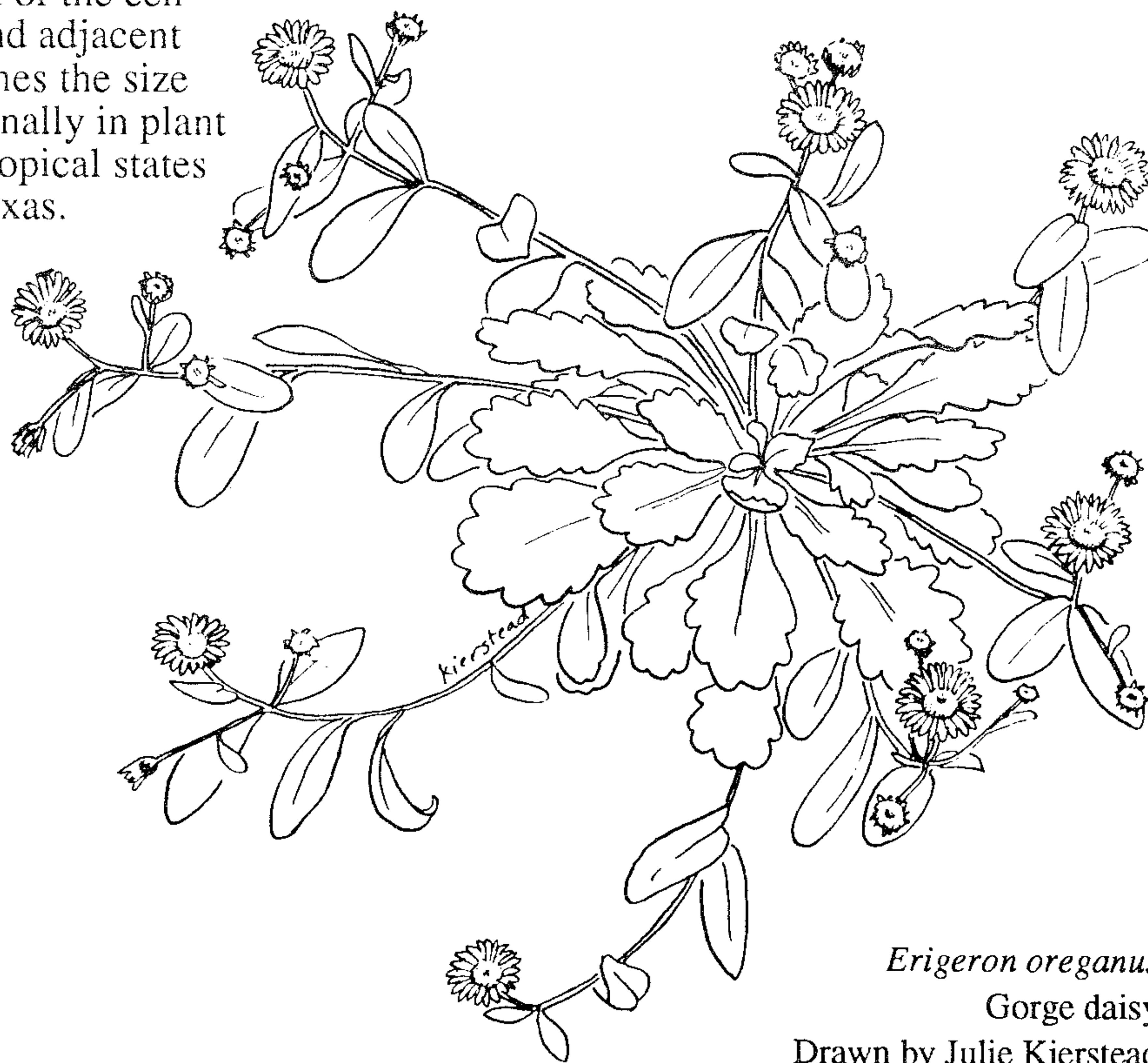
**VASCULAR PLANTS:** Almost 3,500 taxa of native vascular plants are found within Oregon. This is 75% of the species which occur in all of the central and northeastern United States and adjacent Canada, an area more than twenty times the size of our state. Oregon ranks fifth nationally in plant diversity, behind the subtropical or tropical states of California, Hawaii, Florida and Texas.

**OTHER SPECIES:** The number of invertebrate animals, nonvascular plants, and microorganisms native to Oregon have been estimated for only a few groups. As an example of the rich diversity yet to be fully measured, it is estimated that Oregon is home to about 25,000 species of native insects—roughly equivalent to a quarter of all species known to inhabit America north of Mexico.

**NATURAL COMMUNITIES:** In addition to plant and animal species, Oregon possesses a remarkable number and variety of natural communities. These communities are assemblages of plants and animals that have a recognizable composition and structure, and recur predictably in certain habitats over certain geographic areas. Familiar examples include Port Orford cedar forest, ponderosa pine woodland, sagebrush steppe, coastal dunes grasslands, wet montane meadows, mountain streams and kelp beds.

*Oregon's varied topography, changing climates and complex mosaic of natural habitats promotes this rich and unique diversity. It is this diversity that makes Oregon such a wonderful place to live—and such a challenge to protect.*

--From the Oregon Natural Heritage Program



*Erigeron oregonus*

Gorge daisy

Drawn by Julie Kierstead

From NPSO 'Oregon Rare and Endangered Plants'  
postcard series

## SATURDAY FIELDTRIPS FOR THE '92 NPSO ANNUAL MEET

All field trips are Sat., June 6th, and will leave from the Field Station parking lot at 8:15am after breakfast. We will carpool. Bring lunch (which can be provided by the field station with preregistration), warm clothes, raingear, and good hiking boots. A high clearance car is best. As distances are great, we will need to be sure everyone is back for the banquet at 6:30pm.

### THE NARROWS ACEC/STEPHANOMERIA EXCLOSURE

This site contains the only known location for one of Oregon's three federally listed endangered plants, the Malheur wirelettuce. We will hopefully be able to see this annual in bloom, learn of the recovery plans by BLM/USFWS, and survey for new plants. This spot is a 15 mile drive from the Field Station and walking will be easy. Leader will be Nora Taylor of the BLM.

### GREAT BASIN/PAIUTE ETHNOBOTANY

Ethnobotanist Lucile Housley will lead us to the Stinkingwater Pass area where traditional native American uses of local plants will be discussed. 2-hr. drive one way & a moderate 2-4 mile hike.

### PONDEROSA PINE ANCIENT FORESTS

USFS ecologist Bill Hopkins will take us to the southernmost Blue Mountains to see and discuss the ecology of the remnant stands of Oregon's yellow-bellied pine forests. Driving time is 1 1/2 hours each way and hiking is 2 to 4 miles.

### BOTANIZING AND BIRDING

#### THE MALHEUR REFUGE

The Malheur NWR is known as one of the best birding spots in the nation. Accomplished natural historians, Dick and Marge Ettinger will share some of their favorite birding areas and look at some of Malheur's native marsh vegetation on this trip down the Center Patrol Road. A nice mix of driving and easy walking.

#### RIDDLE RANCH/ROOSTER COMB RNA

This area on the Little Blitzen River has recently been acquired by the BLM. There is much history and good botanizing in this area. This ranch is located on the lower slopes of magnificent Steens Mountain. Lead by BLM personnel.

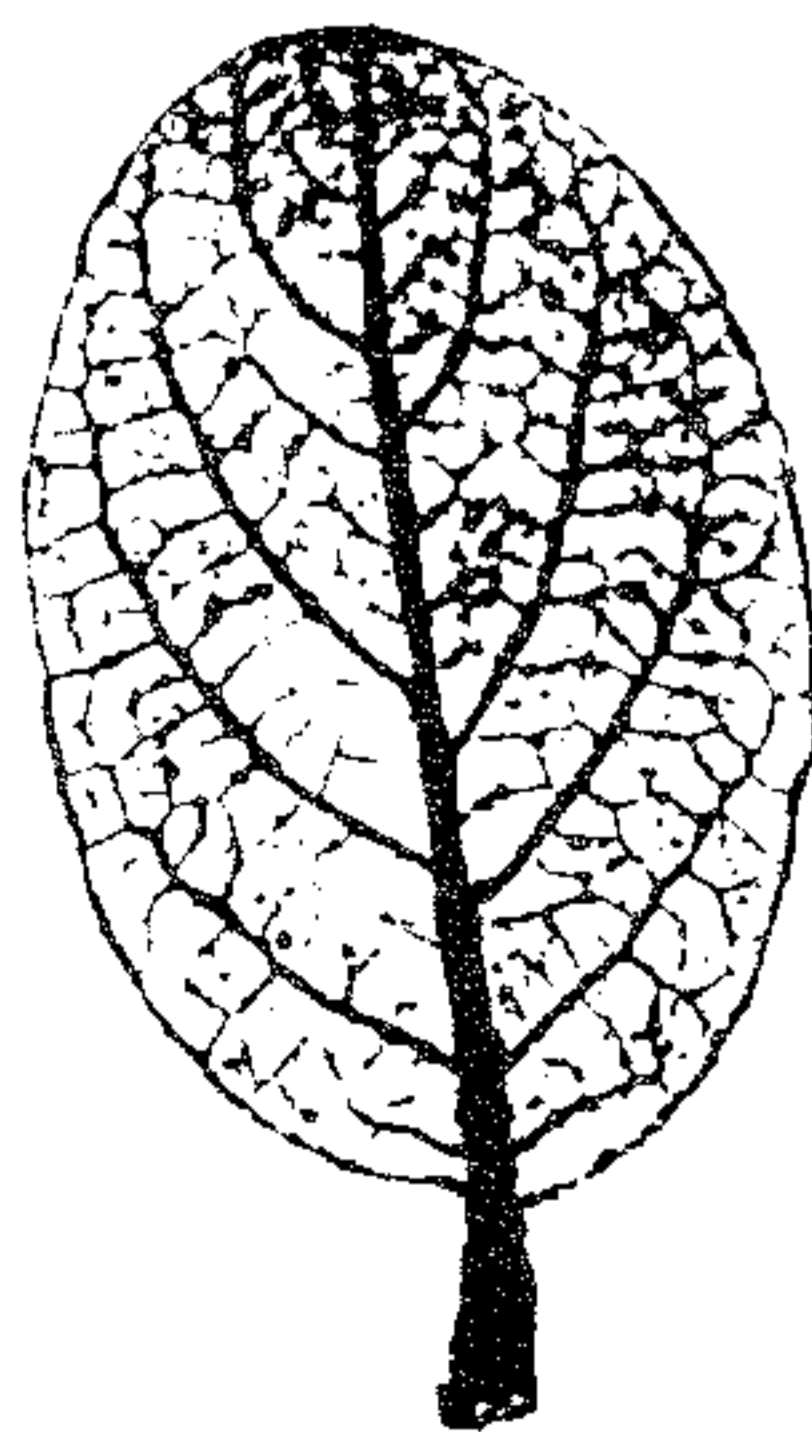
#### A DIFFERENT APPROACH TO RANCHING

The Fred Otley family has agreed to show us their approach to current ranch management. We will see how juniper control, prescribed fire, rotation grazing, and riparian protection are utilized by this ranching family with early roots in Harney County. A combination of moderate hiking and driving. Leader will be Stu Garrett.

#### MARSH RECOVERY

Botanist Sherry Spencer of PSU has been studying the recovery of lowlands from the flooding of the 1980's. Join her to see receding floodwaters and revegetation on the refuge. A short drive with moderate walking.

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cm



### THE PLANT PUZZLE

*Sponsored by the Siskiyou Chapter*

Do you recognize this plant? The first person to give the correct scientific name will win a prize. The illustrated leaf is from a native woody species.

Send your guess on a postcard to:  
Peter Zika  
4230 NW Clubhouse Pl. #1  
Corvallis, OR 97330

Bruce Newhouse of Eugene was first to solve the April puzzle:  
Douglas' spirea, *Spirea douglasii*.

## BITS AND PIECES

--NEWS AND INFORMATION FROM ALL OVER

### AGRICULTURE DEPARTMENT GETS GOING ON ASIAN GYPSY MOTH

After some procedural delays, the USDA is supporting state agricultural departments on the West Coast in spraying *Bacillus thuringiensis*, which is deadly to caterpillars, to eradicate Asian gypsy moths. 9600 acres in North Portland and 116,000 acres in the Seattle-Tacoma area, as well as additional areas in Vancouver, British Columbia, are being sprayed with the organic pesticide. Other measures being taken against the moth include banning ships from entrance who have visited the Siberian ports known to be infested with it. The threat of the moth should mean that log imports from Siberia are to be banned.

The target of this is the Asian gypsy moth caterpillar, which is one of the most versatile consumers of green, growing matter around. With a menu of well over 500 species of native and introduced plant species to choose from, it has little problem finding enough to eat. The environmental threat posed by the Asian gypsy moth is twofold: by stripping our forests (as it has done in Asia) it will devastate them and alter forever the ecological balance which has existed before, and by eating both our crops and forests it will encourage widespread applications of chemicals for economic reasons. Reports from its Siberian homeland indicate that whole forests are consumed by the moth, with trees breaking from the weight of the massed insects. Unlike its close cousins native to Europe, which only glide from tree to tree to lay eggs, the Asian gypsy moth can fly 20 miles to lay eggs. Because of this, once it is established a season, control of the insect will be impossible.

*Bacillus thuringiensis* originally gained acceptance with government agencies due to environmentalists' lawsuits over harmful chemical pesticides once widely used to control insects. This insecticide produces a disease of caterpillars, and is not a toxic chemical, and occurs naturally in some parts of the world. It first came into commercial production in the 1950's. It has been sprayed in large scale projects successfully over rural and urban areas for years. The negative ecological impact of the spray is that it is not specific only to this insect, but is fatal to all types of moths and butterflies.

### LAND MANAGEMENT AGENCY PUBLICATIONS

Both the Bureau of Land Management and the US Forest Service are now publishing newsletter style periodicals with the purpose of increasing public awareness of agency activities and aims. They vary in content and in size from 6 to 50 pages.

The Pacific Northwest Region of the US Forest Service puts out *Greensheet, News of the Forest Service in the Pacific Northwest*. This publication is directed by Forest Service workers towards other Forest Service workers, but contains plenty of general interest information. The February issue, for instance, contains a good quick overview of forest health and fire management related issues for the east side. The average article is short, about 250 words, creating a light feel to the publication, but plenty of interesting tidbits of information are squeezed into those short, to-the-point articles.

Mount Hood National Forest has two publications serving different purposes. One is a general interest opus, while the other covers planning issues. *Mountain Views* in a recent issue has good articles on the spruce budworm and the Falls Fire, among others. Also included is some recreational information. It is aimed at the interested forest user and at those wishing to use the forest for educational purposes. *Sprouts* is subtitled *New Plans for the Mt. Hood National Forest*. It includes information about upcoming Environmental Impact Statements, Environmental Assessments, rehabilitation and enhancement projects, timber sales, prescribed burns, grazing allotments, replanting projects, and ski area improvements, among others. Any planning for specific development or use of the National Forest is included in their extensive listing. This is a valuable resource for anyone wishing to follow such issues in this area.

The Bureau of Land Management's Burns District puts out the *Burns District Planning Update*. This 50 page output is not issued regularly but aims at a yearly appearance. Its articles contain much basic information, and most articles contain a contact person's name and phone number to get additional information. The magazine-style publication covers both recent accomplishments and proposed ones.



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 SISKIYOU..... David Kennedy..... 8394 Wagner Creek Rd., Talent 97540; 535-6383  
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 WILLAMETTE VALLEY (Salem) . Kathy Connelly..... 4699 Satter Dr. NE, salem 97305; 393-1834  
 WM. CUSICK (LaGrande) .... Bob Ottersburg..... PO Box 885 LaGrande 97850; 963-4907

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 KALMIOPSIS EDITOR..... Frank Lang..... 535 Taylor St., Ashland 97520; W-552-6341; H-482-5235

**GUIDELINES FOR CONTRIBUTORS**

The NPSO *Bulletin* is published monthly as a service to NPSO members and the public. Contributions of all types are welcome.  
**DEADLINE: Copy is due with the editor by the 10th of each month.**  
**Submissions can be in any form.** Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.  
**Computer output:** The editor prefers articles submitted on Macintosh or IBM disks, or via modem. Contact the editor for details.

**Illustrations:** Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.  
**Credits:** If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.  
**Scientific Names:** Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. *Italicize* genus and species, or underline.  
**Return of Originals:** Submissions are not returned unless requested.

Membership in the Native Plant Society of Oregon is open to all.  
 Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

**NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM**

Name \_\_\_\_\_ Chapter (if known) \_\_\_\_\_  
 Address \_\_\_\_\_ **Is this a change of address?**  
 If so, please write your *Old Address* here: \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip+4 \_\_\_\_\_  
 Phone (Home) \_\_\_\_\_ (Work) \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

\* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

- |                                 |                             |   |   |
|---------------------------------|-----------------------------|---|---|
| ( ) New                         | ( ) Renewal                 | ( ) Quarter Membership (Sep.-Dec.) \$3.00 | ( ) <i>Bulletin</i> Subscription only \$12.00 |
| ( ) Student.....\$ 8.00         | ( ) Sustaining.....\$ 30.00 |   |   |
| ( ) Regular.....12.00           | ( ) Patron.....100.00       |   |   |
| ( ) Family Membership.....18.00 | ( ) Life Member .....500.00 |   |   |

\* **CONTRIBUTIONS:**  
 Jean Davis Memorial Award Fund. .... \$ \_\_\_\_\_  
 Leighton Ho Memorial Award Fund. .... \$ \_\_\_\_\_  
 Rare and Endangered Plant Fund. .... \$ \_\_\_\_\_

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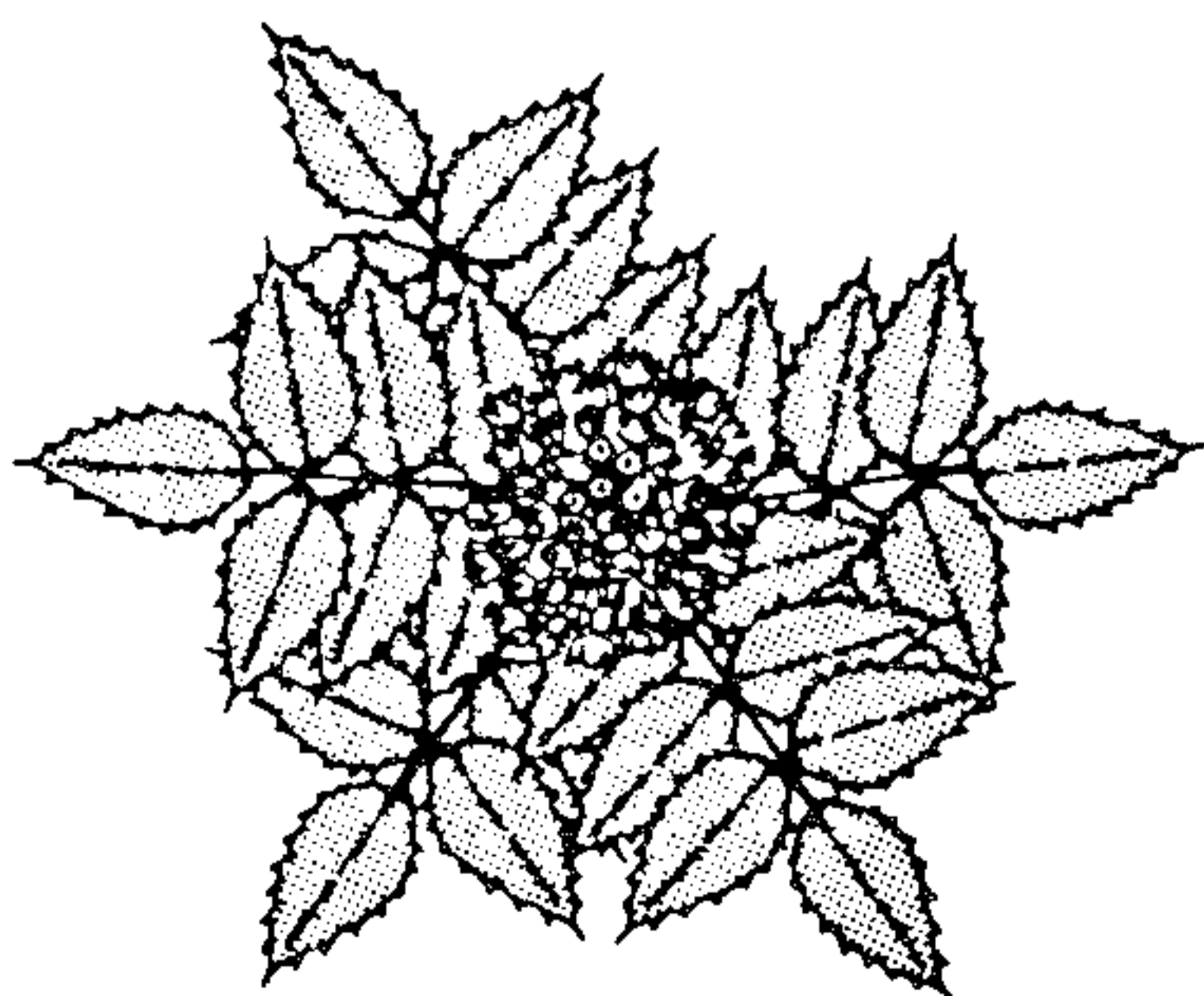
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