



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 4

APRIL 1992

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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.

CHAPTER NEWS

**Blue Mountain**

5 Apr., Sun.

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

**FIELD TRIP:** Upper Umatilla River--Thorn Hollow and Squaw Creek areas, to observe early Spring wildflowers. Leader: Jerry Baker. Depart from the Blue Mountain Community College Greenhouse at 8am, bring lunch and appropriate footwear for some walking.

6 Apr., Mon.

**MEETING.** 7:30 pm in Room 130, Morrow Hall, Blue Mountain Community College. We will continue to schedule future field trips, have further discussions concerning Karl Urban's wildflower coloring book and also gather ideas for Wildflower Awareness Week. Time permitting we will also view various members slides.

18 Apr., Sat.

**FIELD TRIP:** Harry Vincett will lead a trip to Central Oregon to observe *Pediocactus* and other endemics. Leave from the BMCC Greenhouse at 7am sharp! Bring lunch, refreshments and proper clothing, as this will be a fairly long day.

25 Apr., Sat.

**FIELD TRIP:** Umatilla National Wildlife Refuge with Manager Kathy Cheap. Visit the area of the proposed native plant interpretive site, view the wildflowers of the area, and also the waterfowl and other avian species that patronize the refuge. Leave from the BMCC Greenhouse at 8am.

**Corvallis**

12 Apr., Sun

**FIELD TRIP:** Findley Wildlife Refuge to look at early spring wildflowers. Meet at 10am in the parking lot across from the Monroe Street Beanery. Bring raingear and lunch. Contact Esther McEvoy (754-0893) for more information.

14 Apr., Tues

**MEETING.** 7:30 pm in Corl House, 3975 NW Witham Hill Rd., Corvallis. Susan Kephart of Willamette University will tell us about her work on *Silene douglasii* var. *oraria*, a rare plant of coastal headlands. For more information, call Duncan Thomas (752-6529).

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**FIELD TRIP:** To Illinois Valley and Eight Dollar Mountain. If interested contact Esther McEvoy (754-0893)

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

## **Emerald**

11 Apr., Sat.

**FIELD TRIP:** Michael McCabe, Willamette National Forest botanist will lead a trip to Bunchgrass Meadows within the Warner Creek fire area of the Oakridge Ranger District. We will discuss a range of management and rehabilitation prescriptions as well as view the results of last Falls initial rehab efforts. Participants should gain a better understanding of the complex issues involved in this fire restoration project. Bring lunch, drink and hiking shoes. Depart at 9am from the parking lot of South Eugene High School, corner of 19th and Patterson or meet at the Oakridge District Ranger Station on Hwy. 58 at 10am. For further information call Jenny Dimling (343-3242).

13 Apr., Mon.

**MEETING.** 7:30 pm in the Library, Kennedy Middle School, 2200 Bailey Hill Road, Eugene. Dr. Kenton L. Chambers, Professor Emeritus of Botany from the Oregon State University Herbarium, will show slides and speak on the topic: "Does Every Species Really Count?" Come and hear a discussion of this very important concept in plant conservation. For more information, call Jenny Dimling (343-3242).

11 May, Mon.

**MEETING.** 7:30 pm in the Library, Kennedy Middle School, 2200 Bailey Hill Road, Eugene. Art McKee, Site Director of the H. J. Andrews Experimental Forest, will show slides and speak on a topic concerning the Andrews Forest and the New Forestry. His title will be announced here in May. 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.

## **High Desert**

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For information, call Bill Hopkins (388-7434).

## **Mid-Columbia**

1 Apr., Wed.

**MEETING.** 7:30pm at the Mosier School. John Christy of the Oregon Natural Heritage Program will discuss they types of wetlands found in the Northwest, emphasizing plant associations. He also will highlight the controversy surrounding how federal agencies define wetland boundaries.

12 Apr., Sun.

**ANNUAL WILDFLOWER SHOW** at the Mosier School, 10am to 4pm. Also you can drive the Cherry Blossom Tour Route and take in the annual Mosiers Firemen's Benefit smorgasbord dinner at the Mosier Grange Hall.

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**

28 Apr., Tues.

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

**FIELD TRIP:** Call Al Krampert (842-2308) for information about Earth Day hike at Cape Lookout.



## Portland

- 11 Apr., Sat. **FIELD TRIP:** On the Deschutes River Trail from river's edge into the sagebrush hills, about a 4 mile loop among fine flowers. Leave 8am from the SW corner of the 122nd & K-Mart parking lot. Drive is about 90 miles each way. Leader is Louise Godfrey (223-4785)
- 14 Apr., Tues. **MEETING.** 7pm at First United Methodist Church, 1838 SW Jefferson St., Portland. Nancy Fredericks will speak on "*Calochortus*", rescheduled from an earlier date.
- 18 Apr., Sat. **FIELD TRIP:** Chetwood Loop Trail--see white oaks, a great variety of flowers and excellent views. Wear long trousers and long sleeves to protect against ticks and poison oak. Moderate 6.5 miles across open slopes. Elevation gain 1000ft. Meet at 9am, southwest corner of K-Mart parking lot at 122nd and Sandy. For more information call trip leader Mary Mason (227-4639).

## Siskiyou

- 17 Apr., Fri. **MEETING.** "Botanical Areas in the Rouge River National Forest" will be presented by Barbara Mumblo, Botanist with the Applegate Ranger District. 7:30pm in Room 171 of the Science Building at Southern Oregon State College. For information, call David Kennedy (535-6383).

## Umpqua Valley

- 9 Apr., Thurs. **MEETING** program to be announced. The UV Chapter meets every 2nd Thursday in the month in Room 311 of the Douglas County Courthouse, Roseburg. For information call Richard (673-3709).
- 11 Apr., Sat. **FIELD TRIP.** To Roman Nose and Kentucky Falls in the Siuslaw NF. Meet 7:45 am BLM parking lot , 777 Garden Valley Road for carpooling, leave 8 am. For information call Mildred Thiele (673-5397).
- 25-26 Apr., Sat. **GLIDE WILDFLOWER SHOW.** Our long-time dedicated crew needs volunteers to help collect, arrange or whatever. We are scheduling some of short field trips on Saturday and Sunday. For volunteers call Mildred Thiele (673-5397) or field trips call Richard Sommer (673-3709).
- 23 May., Sat. **FIELD TRIP.** To King Mountain Rock Garden via Wolf Cr, Coyote Cr to see *Fritillaria glauca*, *F. recurva*, *Lewisia pygmaea* var *nev.*, *Anemone oregana*. Meet 7:45 am BLM parking lot , 777 Garden Valley Road for carpooling, leave 8 am.

## Willamette Valley

- 20 Apr., Mon. **MEETING:** 7pm in Room 225 of the First United Methodist Church, 600 State St., Salem. Dr. Winn Cudmore, a biology teacher at Chemeketa Community College, will give a slide show about old growth forests. Come join us to hear about this controversial topic! For more information, call Cathy Connelly (393-1834).
- 25 Apr., Sat. **FIELD TRIP/WORKSHOP:** 9:00–12:00noon. Learn to identify what you'll find on this year's field trips. Diana Bodtger, a botany teacher at Chemeketa Community College, will explain botanical terminology and introduce us to using identification keys. This will be a hands-on, laboratory type of workshop. Call Cathy Connelly (393-1834) for location.
- 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. **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 trip to Southwestern Oregon. For further information, contact Wilbur Bluhm (393-2934).

## William Cusick

7 Apr., Tue. **MEETING.** 7:30pm ESD office, 2100 Main St., Baker City. Charlie Johnson, Zone Ecologist, US Forest Service, Baker, will present a slide show on endemic plants of the Blue Mountains. For more information call Bob Ottersberg, 963-4907.

11 Apr., Sat. **FIELD TRIP:** Tim Stein will lead a 10 mile round trip hike along the lower Imnaha River to the Snake River in the gorge of the Hells Canyon National Recreation Area. Plants of interest in the area include: *Allium geyeri* and some endemic *Lomatiums*: *L. serpentinum* and *L. rollinsii*. Meet at the Safeway parking lot in Enterprise at 9am. For more information, call Tim (426-3443-H or 426-4978-W).

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 ([503] 962-7049).

### **Welcoming Our New Members...**

These are our new members from the dates Dec. 7, 1991 to Mar. 7, 1992:

#### **Blue Mountain Chapter:**

Mike & Julie Black  
Anne E. Douglas  
David C. Powell  
F. Vance Pumphrey  
Jennifer Stein  
Julie Van't Hul

#### **Corvallis Chapter:**

Bruce N. Hayes  
Sherry K Pittam  
Helen V. Smith  
Marjorie Storm  
Margriet Wetherwax

#### **Emerald Chapter:**

Doris Allen  
Susan Barger  
Frances Burns  
Michael Fahy  
Pat Ford  
Pamela Good

Herb Kieklak  
Floyd Lord  
Glenn Meares  
Alma Sapienza  
Michael W. Shippey

#### **High Desert Chapter**

Elaine L. Ammann  
Jennifer Doan-Scott  
John & Elizabeth Horsnell  
Jennifer Hutchinson  
Beverly Meyer  
Andrea Sandmann

#### **Portland Chapter**

Gordon Anthon  
Dan & Karla Ayres  
Roy & Kathryn Beaty  
Judith Bradshaw  
Carol T. Cole  
Ernest & Claire Johnson  
Lizzie King  
Allan Lehman  
Jane McGary  
Mary Pakenham-Walsh  
Irene Vlach  
Linde Westling  
Roger Yerke

**Siskiyou Chapter**  
Christine Ebrahimi  
James Hutchinson

#### **William Cusick Chapter**

Ed & Donna & Amanda Bottum  
Melanie Crocker  
Penny Hall  
Gary O. Hathaway  
Dianne Kiel-Jones  
Tim & Pat Lichen  
Ardis Waters

#### **Willamette Valley Chapter**

Tony Allen  
Stephen Carter  
Meredith Cote  
Dave Garcia  
Wallace W. Hansen  
Claire Hibler  
Mike Murphy  
Barbara Slimak  
Debra L. Sparber  
Julie Knurowski-Thiel  
Jonathan Yoder



## TIPTOE THROUGH THE TALUS: A LOOK AT *AMSINCKIA CARINATA*, A MALHEUR COUNTY ENDEMIC

"Don't you have any rare plants that grow on level ground that we could study?" Jenny Holah asked Bob Meinke as the three of us crouched on a steep talus slope just outside of Harper, Oregon, in northern Malheur County. A few moments later, I watched my backpack accelerate before rolling to a stop at the base of the slope. If an average observer had happened to pass, they undoubtedly would have questioned what could have lured us to such an unlikely spot on a cold, blustery May day. However, if the observer had been a botanist familiar with the area, our motives would have been clear: we were there at the behest of the Bureau of Land Management to study *Amsinckia carinata*, the Malheur Valley fiddleneck, which is endemic to the distinct talus outcrops around Harper. *Amsinckia carinata* (*Boraginaceae*) is listed as a Threatened species by the State of Oregon and is a Candidate for listing under the federal Endangered Species Act, as well. In fact, the species was thought extinct for many years, until several populations were rediscovered in 1984 by Elaine Joyal. Working with Oregon Department of Agriculture's Plant Conservation Biology Program on a grant from the NPSO, I hoped to learn more about the distribution and biology of this rare plant during our stay.

Before we could begin our work, Jenny and I had to learn to distinguish between *Amsinckia carinata* and *A. tessellata*, a weedy relative. At first, the two annual species appear virtually identical; both plants are about 25 cm. tall, with hairy leaves and yellow-orange flowers. However, Bob pointed out several differences between the two. *A. tessellata* tends to have narrower, hairier leaves and somewhat smaller flowers than *A. carinata*. If these subtle differences eluded us, we only needed to examine a plant's nutlets: *A. tessellata*'s are cobbled and rough, while *A. carinata*'s are unmistakably shiny and smooth. With this knowledge under our belts, we were ready to explore.

In spite of the drought, several populations of *Amsinckia carinata* were thriving in late May, and many plants were flowering. Though green-house tests confirm that the plant is capable of self-pollination, several bee species were visiting the small, dark yellow flowers. Other individual plants had already set seed, and we gathered their distinctive shiny nutlets for future studies.

We arrived at our first *Amsinckia* site on a rather dismal morning and began a transect near the top of a bouldery outcrop. The small pieces of talus that covered the slope made any movement quite challenging. Near the top of the slope, the plant community abounded with *A. carinata*, as well as scattered individuals of *Amsinckia tessellata* and *Atriplex spinosa*, which quickly became known as "the devil bush." Anyone who has ever slid to an abrupt landing atop one of these spiny plants will understand the sentiment that led to this nickname. Since relatively little is known about *Amsinckia carinata*, we were interested in taking basic measurements on plants at different elevations along the slope. We determined the number of plants per unit area, their heights, the number of flowering branches, and the size and depth of the talus.

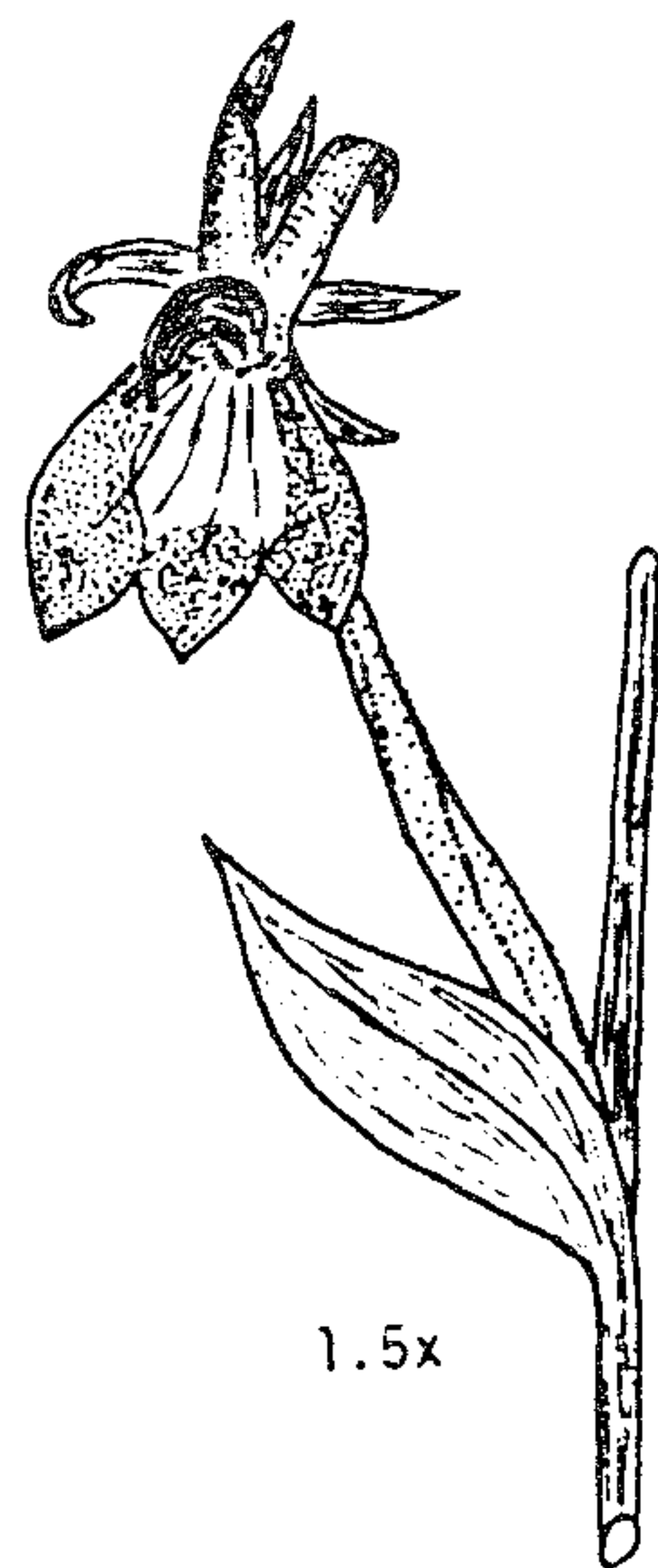
As we worked our way down several slopes, we found substantially less *A. carinata* and increasingly more individuals of the weedy *A. tessellata*. At the foot of some slopes, where the two species intermingled, there were several plants that appeared to be hybrids between *A. carinata* and *A. tessellata*. This phenomenon will be the subject of future study. As we worked, we questioned why these two *Amsinckia* species have different distributions along the length of the slope. Previous soil analyses had indicated that *A. carinata* tends to occur on soils comparatively high in sodium. The amount of sodium tends to decrease downslope where populations of *A. carinata* decreased relative to *A. tessellata*. This gradient might help answer our question on distribution. Another possible answer might be found in our talus measurements. Larger and deeper talus appeared to be correlated with increased density and increased reproduction in *A. carinata*. *A. carinata* may be better able to withstand the difficult environment near the tops of these slopes but is outcompeted in gentler environments. We cannot know for certain without experimental manipulations.

Our solitude near these rocky outcrops was occasionally interrupted by a passing animal. At one point, we were intently examined by a pronghorn, and later, Jenny had a chance encounter with a rattlesnake. While we did not directly witness any ambling bovines, we saw evidence of their presence in the neighborhood.



Domestic cattle have disturbed talus and compacted soil in the area, particularly at the base of the *Amsinckia* slopes. In addition, grazing has facilitated the introduction of Eurasian weeds, such as cheatgrass (*Bromus tectorum*). This species, as well as *A. tessellata*, may compete with *Amsinckia carinata* in areas where the plant has spread downslope. While we cannot guess what the populations of *Amsinckia carinata* might have looked like before European settlement, current land use practices appear to pose a threat. The soil disturbance and non-native species associated with grazing may compromise the continued survival of this species. In addition, mining claims are evident along some of the talus slopes that support *A. carinata*. The major substrate disturbances associated with mining could have a devastating effect on *A. carinata*, since it is expected to be difficult, at best, for any reclamation effort to recreate the talus slopes the species appears to require for survival. Before this area is disturbed further, it is important to understand what impacts these disturbances may have on the survival of this endemic species.

—Lisa Lantz  
 Department of Botany and Plant Pathology  
 Restoration Ecology and  
 Plant Conservation Biology Cooperative Project  
 Oregon State University



*Dowlingia elegans*  
 Showy dowingia  
 Drawn by Herm Fitz

Reprinted from NPSO *Bulletin* Jan. 1983

## NPSO 1992 BUDGET (JANUARY 1 – DECEMBER 31)

Adopted by the Board of Directors  
 January 25, 1992

### Estimated Income:

Membership dues	\$12,500.
Environmental Federation of Oregon	6,000.
Rare/Endangered Plant Fund	600.
Notecards	400.
Interest	300.
Leighton Ho Fund	200.
	<u>Sub-total</u> 20,000.
Balance Brought Forward	6,400.
<b>TOTAL INCOME</b>	<b>\$26,400.</b>

### Anticipated Expenses:

Bulletin	\$6,000.
Environmental Federation of Oregon	5,500.
Chapters share of dues @ 35%	4,375.
Kalmiopsis	2,500.
Research Grants (4 @ \$400.)	1,600.
Membership chair	800.
Board and other committees	600.
R/E Committee	500.
Conservation Committee	500.
President	450.
Legislative Committee	375.
Secretary	350.
Treasurer	250.
Education Committee	100.
Cascadia Conference	100.
Annual meeting—Banquet speaker	100.
ONRC	100.
Nat. Res. Def. Council	100.
Fees and Taxes	80.
Desert Conference XIII	50.
Natural Areas Association	35.
Wildflower Research Center	25.
	<u>Sub-total</u> 24,490.
Balance Forwarded (savings)	1,910.
<b>TOTAL EXPENSES</b>	<b>\$26,400.</b>

State board members and committee chairs attending state board meetings are reimbursed for mileage over 100 miles per meeting (non-cumulative) @ 21¢/mile.

--Dan Luoma, NPSO Vice-President



## OREGON'S BIODIVERSITY: CAN WE SUSTAIN IT? THE HIGH DESERT CHAPTER'S 1992 FIELDTRIPS

Oregon's conservation challenge for the next century is apparent: Can we offer future generations an ongoing opportunity to enjoy our state's natural biological diversity? The answer is not clear, but lots of folks are considering the problem. The emphasis in conservation is shifting away from the preservation of small plots of land which focus on only one species to the management of larger chunks of landscape in the hope that this strategy will offer more protection to species and habitats. Both private groups and federal agencies have pioneered the protection of biodiversity in Oregon. The USFS and BLM through wilderness areas, RNA's, ACEC's, and other special conservation designations have protected millions of acres of land. The Nature Conservancy, a private non-profit group, has led the way in the non-governmental arena. We invite you to join us in our visits to a variety of these preserves in our 1992 field season.

The NPSO is a private, non-profit educational association whose members are interested in the enjoyment, study, and conservation of Oregon's native vegetation. Membership is open to all. Founded in 1961, NPSO includes over 900 members in 11 chapters statewide. We invite non-members to join us for our no-fee hikes. Amateurs and experts are equally welcome!

All Bend Chapter fieldtrips will depart from Juniper Park parking lot near the tennis courts at 7th and NE Franklin Ave. in Bend at 8:30am sharp unless otherwise noted. Please arrive a few minutes early to carpool. We will normally return to the parking lot by 5:30pm. Please be sure your gas tank is filled and bring along water, a sack lunch, a daypack, and sturdy footwear. Consider taking layered clothing, sunscreen, a hand lens, camera, binoculars, etc. Weather may be severe, trails can be rough, and roads are sometimes poor. Riders are encouraged to reimburse their drivers: 22 cents per mile is a suggestion. Please don't smoke. No picking or collecting of plants is allowed. Please leave your pets at home. You participate at your own risk. Please call trip leaders for more information.

**The Lawrence Memorial Grasslands Preserve** Sat., May 2. The Nature Conservancy owns and manages this 400 acre preserve which features a climax stand of native Oregon bunchgrasses and

wildflowers. This will be an easy to moderate four mile round trip hike to see the native meadow steppe ecosystem. Trip leader: Stu Garrett (389-6981 eves).

**The Painted Hills, John Day Fossil Beds National Monument** Sat., May 16. This area is managed by the National Park Service. One of three federal national monuments in Oregon, it preserves not only important aspects of biologic diversity in several rare plants but also protects amazing geologic resources. Easy hiking. Trip leader: Stu Garrett (389-6981 eves).

**NPSO Annual Meeting** at Malheur Field Station, Fri., Sat., Sun, June 5-7. This is the Society's annual get-together. It will be hosted by the High Desert Chapter and will feature a variety of excellent fieldtrips to interesting spots. A banquet dinner will feature Lucile Housely speaking on Paiute ethnobotany. See the NPSO *Bulletin* for details.

**Forest Health and Sustainable Forest Management** Sat., July 18. Some areas of the conifer forests of central and eastern Oregon are "ecosystems in collapse" according to the USFS regional forester. We will see the conditions that have led to this problem and understand the natural forces at work. Various approaches to the situation will be considered. Entomologists from the Deschutes National Forest will accompany us. Trip leader: Stu Garrett (389-6981 eves).

**Broken Top Volcano/Three Sisters Wilderness** Sat., Aug 15. Our annual hike to the spectacular display of alpine wildflowers and glacial geology at Broken Top. A five mile round trip moderate to strenuous hike with a 1500 ft. elevation gain, mostly off-trail through Three Sisters Wilderness. The number of hikers is limited due to USFS restrictions on wilderness travel. Call trip leader Stu Garrett (389-6981 eves) to preregister.

Contact Field Trip Chair Dr. Stu Garrett, 21663 Paloma Dr., Bend OR 97701 ([503] 389-6981 eves) for more details. On trips where participant numbers are limited, preference is given NPSO members. News publications are free to republish this listing but are requested to include enough information to fully inform potential trip participants.



## 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 ENCLOSURE

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

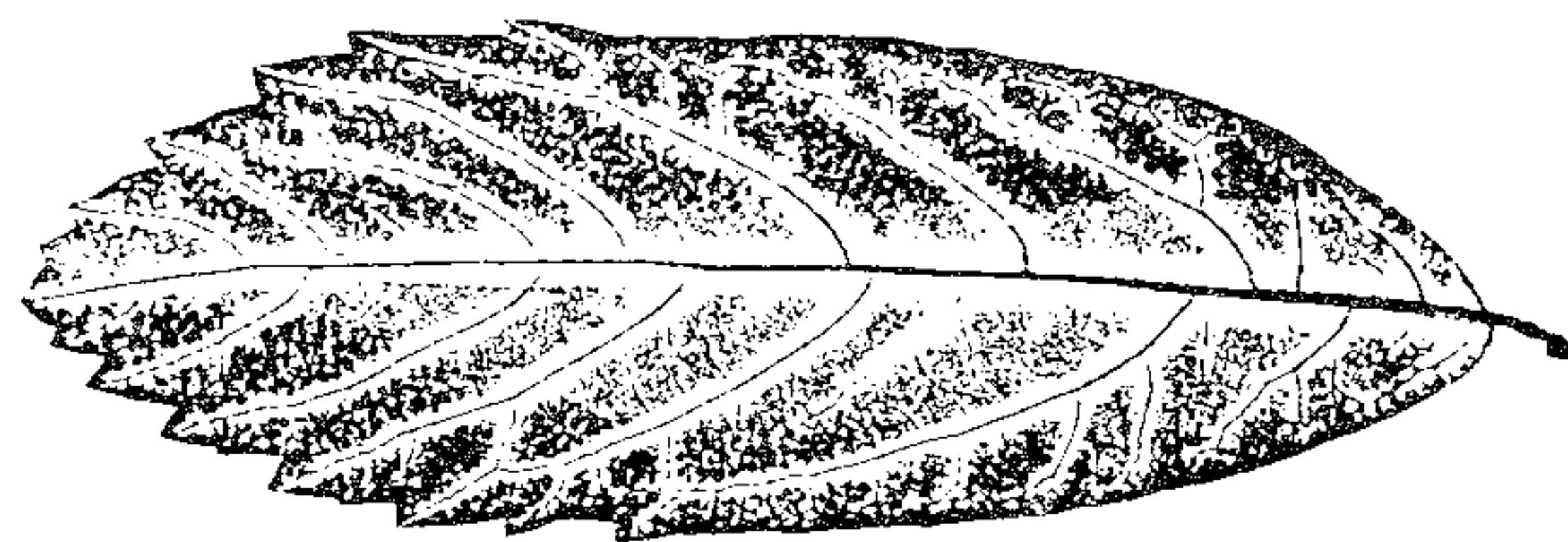
This area on the Little Blitzen River has recently been acquired by the BLM. There is much history and good botanizing in this area. This ranch is located on the lower slopes of magnificent Steens Mountain. Lead by BLM personnel.

#### A DIFFERENT APPROACH TO RANCHING

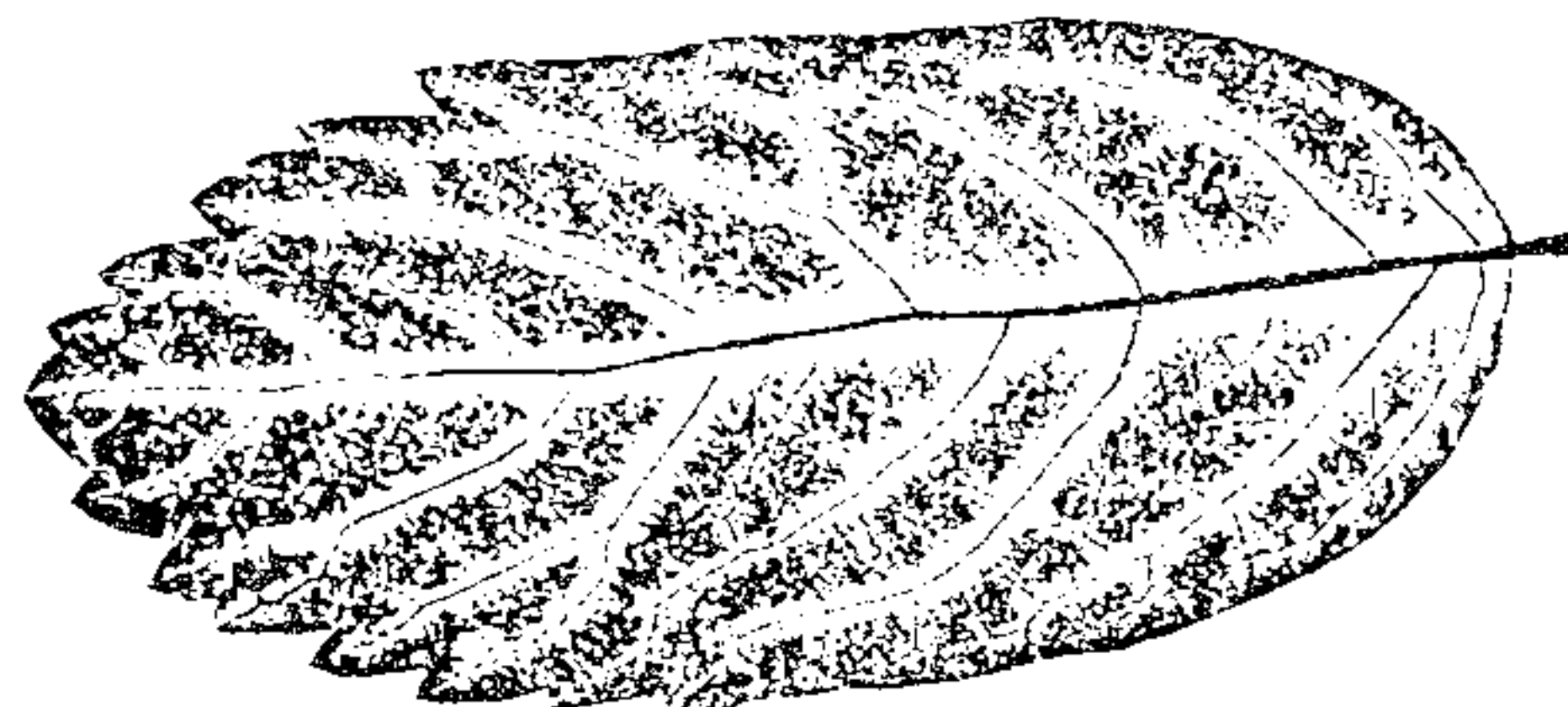
The Fred Otley family has agreed to show us their approach to current ranch management. We will see how juniper control, prescribed fire, rotation grazing, and riparian protection are utilized by this ranching family with early roots in Harney County. A combination of moderate hiking and driving. Leader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

Send your guess on a postcard to:

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

Gordon Larum of Medford was first to solve the March puzzle: common chokecherry, *Prunus virginiana*.



