

Bulletin of the Native Plant Society of Oregon

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

VOLUME 28

NUMBER 11

NOVEMBER 1995

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State News

Jan. 20, Sat. **State Board Meeting:** 10 A.M. - 4 P.M. in Eugene. Hosted by the Emerald Chapter. The main topic will be the adoption of the annual budget. Location to be announced.

Chapter News

Blue Mountain

Nov. 6, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Paula Brooks, botanist with the Wallowa-Whitman National Forest, will show slides on the wildflowers of the Elkhorns.

Dec. 4, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Presentations and discussions regarding the NPSO Symposium in November.

Corvallis

Nov. 13, Mon. **Meeting:** 7:30 P.M. Room 2087, Cordley Hall, OSU campus. Loren Russell presents "Rock plants of Oregon mountains: the Siskiyou, Cascades and Wallowas." For more information, call Keli Kuykendall at 758-8409.

Emerald

Oct. 28, Sat. **Field Trip: (Late development. Note date.)** Bruce Newhouse will lead a trip to identify and mushrooms for the Mt. Pisgah mushroom show (which is held on the next day) Meet at S. Eugene H.S. parking lot, (19th and Patterson) at 9 A.M. For more information call Bruce at 343-2364.

Nov. 27, Mon. **Meeting:** 7 P.M. at 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. Dan Luoma will present "New insights on the Monotropeidae (Indian pipes and relatives)." He has much new information since his last talk here on the subject. For more information call Kathy Pendergrass at 683-3889.

High Desert

Meeting: No meeting in November or December.

Mid-Columbia

Nov. 1, Wed. **Meeting:** 7:30 P.M. Mosier School. Marty Stein, head botanist at Mt. Hood N.F. will show slides and a video of some of his favorite places and plants in northeastern Oregon.

Dec. 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Ron Graves will talk about the restoration project in the Buck Hollow watershed.

North Coast

Nov. 5, Sun. **Field Trip:** The mushrooms of Cape Meares. Meet at 10 A.M. at the Tillamook P.U.D. to car pool, or at the Cape Meares parking lot by the kiosk. Call Jaylen Jones at 842-7710 for more information.

Nov. 28, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell. Larry Scofield, a BLM botanist with the Tillamook Resource Area, will speak on the "Celebrating Wildflowers" initiative. Call Christine Stanley at 436-0161 for more information. **Note: the meeting may have to be rescheduled if highway 101 is closed south of Cannon Beach.**

Portland

Nov. 14, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson Street, Portland. John Kallas of Wild Food Adventures will talk on the wild foods of the forest wilderness. The meeting room will be open at 6:30 for socializing.

Nov. 29, Wed. **Committee Meeting:** 7 P.M. Field trip planning for 1996. Offer your suggestions for destinations and leaders. Help sketch the field trip calendar for the coming year. Where would you like to go? What would you like to learn? Who would you like to learn it from? We will meet at the field trip chairman's home for a brainstorming session. Contact Mike McKeag at 642-3965 for directions.

Siskiyou

Nov. 9, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. Frank Lang, a professor of botany at SOSC, and Kay Atwood, a local historian, will give a slide presentation, "Evans Creek: Changes on the Land." Please note the meeting date, which was changed from our usual date so as not to conflict with the native flora conference in Corvallis.

South Coast

For information on the South Coast Chapter, call Bruce Rittenhouse (888-9328).

Umpqua Valley

Nov. 9, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Linda Benson of Oakhill Farms Native Plant Nursery will show and discuss the use of native plants in the home landscape. She will bring representative samples.

Nov. 11, Sat. **Field Trip:** Explore seashore plant communities near Carter Lake on the Oregon coast. Leave at 8 A.M. from BLM parking lot, 777 Garden Valley Blvd., Roseburg, or meet at the Dunes RNA at 9:30 A.M. Call Richard Sommer, 673-3709, for more information.

Willamette Valley

Nov. 20, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Glenn and Barbara Halliday will consider "The lilies of the field," at least those of Washington, Oregon and California.

William Cusick

Nov. 8, Wed. **Meeting:** 7 P.M. Forest and Range Laboratory, Gekeler and C Aves., La Grande. Charley Johnson, ecologist for the Wallowa-Whitman, Umatilla, Malheur National Forest, will present a slide show on one of his favorite topics -- the alpine plants of the Wallowa Mountains.

Nov. 11, Sat. **Work Day:** This is a Gangloff Park restoration day. The restoration of Gangloff Park continues. There is always something to do. We may plant, rake and do some earth moving, or whatever needs to be done. Come join the fun!!! Take shovels, rakes, gloves, lunch and water. Stay a couple of hours or all day. Meet at the Park at 9 A.M. Call Barbara Russell, 963-7495, 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 on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

POSTAL NOTICE

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Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of 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 useable. Some McIntosh graphics can be used. Contact editor for current needs, or send illustrations.

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

FORMAT: Submissions can be in any form. Use of a modem is not possible at this time.
For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

We Welcome New Members Joining From 8/7/95 to 10/9/95

At Large

Sarah Brown
Ferne Carter Olschewsky

Corvallis

Catharine Cory
Sami Gray
Alberta M. Pierce
George and Roberta Poinar
Barbara Ross
Kelley Stearns
Laura Wilson

Emerald

Jennifer Gardner
Daniela Roth

High Desert

Renee Roufs

Mid-Columbia

Tom Atkins
Arlene Larison

North Coast

Cappy Tosetti

Portland

Derek E. Cartwright
Sarah Dwiggin
Kathleen Gow
Jennie Jaeger
Bruce, Ober and Nickie Keys
Cheri Kuhn
Margie Mayfield
Mike O'Brien
Julie, Kern and Terry Papavero
Tiffany Ryan
Sam and Evelyn Sanchez
Carolyn Stapleton

Siskiyou

Jim Curtis II
Tim Brandy's Cross Grade class, Walker School

Siskiyou-South Coast

Dennis Phillips
Willamette Valley
Dana Field
Donna Seutter
Patricia Williams

Congress and the Environment It's Not Too Late

The ESA

Reauthorization of the Endangered Species Act by the present Congress is extremely unlikely as is a continuing resolution to extend it. Instead, several new bills have been introduced, two of which have made it to the House floor in Washington, D.C. ESA supporters should urge their PNW legislators to oppose H.R. 2275, the Young-Pombo bill, and instead cosponsor H.R. 2374, the Endangered Natural Legacy Protection Act of 1995, introduced by Representative Gilchrest (R-MD). (While not perfect, H.R. 2374 is the best of the lot and may be proffered as a compromise at House-Senate conference committee time.)

On the Senate side, the Gorton bill (S768) has been replaced by a bill to be introduced by Senator Kempthorne (R-ID), best described as a Pro-Extinction ESA Reauthorization Act. Senator Hatfield, Oregon's remaining Senator, needs to hear from ESA supporters that the Kempthorne bill is as unacceptable as S768.

"Sufficiency Language"

Sufficiency language bars judicial challenges to actions taken as authorized by Acts of Congress. Activists should let both their legislators AND the Administration know that the Appropriations bill for Energy and Water (which contains Hatfield's BPA Salmon Cap) is unacceptable, because of its sufficiency language. The President should also be asked to veto the Interior and VA-HUD bills as well, if they contain sufficiency language.

Also, continue to express your disappointment to the President for his agreeing to the Salvage Rider to the FY 1995 rescissions bill. (This allowed skirting environmental laws to permit timber sales in National Forests.) Hopefully, he can be discouraged from ever agreeing again to sufficiency language, since it precludes citizen challenge.

"Thank-You's"

Environmentalists should continue to deluge the White House with calls and letters thanking President Clinton for his stance to prohibit drilling in the Arctic National Wildlife Refuge (the Budget Reconciliation Act) and urging him to maintain it. Conservationists should also be loud and vocal in their protests of timber sales, particularly to NW legislators and Governor Kitzhaber. And, they

should commend Governor Kitzhaber for his initiative in mobilizing western governors in opposition to the Salvage Rider, and in support of protection for our ancient forests.

More Information

For updates, contact: US Fish and Wildlife Service Hotline: Phil Carroll, Regional ESA Coordinator, Portland 503) 231-6746; Pat Foulk, Regional ESA Coordinator, Sacramento (916) 979-2710.

Some Addresses

President Bill Clinton
The White House
1600 Pennsylvania Ave.
Washington, D.C. 20500

Senator Mark O. Hatfield
711 Hart Senate Office Bldg.
Washington, D.C. 20510
(202) 224-3753

Oregon Office:
Special District Center
727 Center St. NE, Suite 305
Salem, OR 97301
(503) 326-3386

Congressman Jim Bunn
1517 Longworth House Office Bldg.
Washington, D.C. 20515
(202) 225-5711
Oregon Office
738 Hawthorne Ave. NE
Salem, OR 97301
(503) 588-9100

Congresswoman Elizabeth Furse
316 Cannon House Office Bldg.
Washington, D.C. 2055
(202) 225-0855
Oregon Office
860 Montgomery Park
2701 NW Vaughn
Portland, OR 97201
1-800-422-4003

Congressman Peter DeFazio
1233 Longworth House Office Bldg.
Washington, D.C. 20515
(202) 225-6416
Oregon Office
Room 287 Federal Bldg.
211 E 7th Ave.
Eugene, OR 97401
(503) 465-6732

Mariana D. Bornholdt
Willamette Valley Chapter

Summer Intern Reports

This is the first in a series of three articles in which NPSO interns discuss their activities during the 1995 field season. Interns were selected from a pool of applicants and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program to carry out research related to threatened and endangered species in the Pacific Northwest. Project locations ranged from beaches on the coast to an island in the Columbia River. Interns were jointly funded by NPSO, state and federal dollars, and plan to use their experience to further their careers in botany and biology. Thanks again to NPSO for contributing to botanical education.

Tom Kaye and Bob Meinke
Plant Conservation Biology Program
Oregon Department of Agriculture

Adventures Along the Umpqua Summer Studies of *Kalmiopsis fragrans*

Gravel grinds under the tires as we drive up the road leading to the study sites of *Kalmiopsis fragrans*, located near the North Umpqua River in the Umpqua National Forest outside of Roseburg in Douglas County. The twists and turns of the road conceal the hidden hazards like fallen trees or the tunnel of branches that will whack into anyone foolish enough to leave a window open, and last but not least a fleeing black bear startled by the sight of the truck.

Finally we reach the gate which has been erected to protect a pair of nesting peregrine falcons which, I'm told, can be seen occasionally if you happen to be in the right place at the right time. The gate is a heavy one and tricky, especially for first timers trying to undo the lock, a puzzle which needs to be done one step at a time in the right order or you end up with bruised fingers and a gate that will not open. We, Matt Carlson, Steve Gisler and I, are there to investigate the reproductive system of *Kalmiopsis fragrans* sp. nov., considered a List I threatened species by the Oregon Natural Heritage Program and a sensitive species by the Forest Service. *Kalmiopsis fragrans* is a low growing pink-flowered shrub with yellow stamens that grows on steep, rocky slopes. Working with the Oregon Department of Agriculture's Plant Conservation Biology Program on a grant from the NPSO allowed me the opportunity to

participate in this study.

There were four study sites, one of which got its name, Plethodon Arch, from the number of the little salamanders we found hiding under the rocks the plant grew near. My second day out I got to capture and inspect the small slimy animals whose slightly sticky feet left a strange tickling feeling as they walked across my palm. One of the steeper study sites required anyone who wanted to go there to tightrope across a large fallen log. Luckily, I never had to visit this site, so I can only recount the tales of others as they slipped up the slick wet log while the creek roared underneath

The reason we were in this seemingly unfriendly environment is that *Kalmiopsis fragrans* is one of a few species of plants that is heterostylous, having two different reproductive morphologies.

These two morphs are called "pins" and "thrums." Pins have long pistils and shorter stamens while thrums have longer stamens and shorter pistils. Part of the study involved comparing the differences between the two morphs by measuring stamens and pistil length, pollen size, and floral dimensions. Much of this work was done later under a microscope at Oregon State University, but out in the field we collected flowers as well as made slides of pollen while the unpredictable weather alternately froze or baked us, and even once snowed on us.

Much of the study involved doing cross pollinations between and among the morphs. We used tweezers to pluck the anthers and pollinate other flowers, and we kept track of the number of each type of pollination we performed using strings of different colors tied to the pedicels of the flowers. Anyone stumbling across the sites would have been startled by the sight of white net bags dotting the landscape which we tied to the plants to exclude pollinators.

A minor part of the study, but one of my favorite parts, was the collection (for identification) and observance of pollinators visiting the two morphs. With a net and a jar I was free to snag as many different varieties of the low flying pollinators as I could. Some of them sped by so quickly it was impossible to catch them, but a successful venture was always followed by the delicate business of transfer from net to jar while avoiding the stingers. Besides determining which pollinators were visiting the plants we were also trying to determine if different parts of each morph came into contact with different parts of each pollinator. If this were the case, it would perhaps lend insight

into the significance of the two different morphs and the importance and degree of outcrossing in the species.

Our study of *Kalmiopsis fragrans*, now in its second year, is designed to examine the differences between pins and thrums and provide insight into the advantages and disadvantages of the heterostylous reproductive system. Also, an understanding of the reproductive biology is necessary to develop any plan for protecting populations of this species. Preliminary results from this study indicate that pollinators display no visitation bias between morphs, and that inbreeding among pin and thrum plants does occur. However, although the heterostylous breeding system is not effectively ensuring outcrossing at the pollination level, initial germination tests of resulting seeds suggest that inbreeding may produce non-viable seeds.

This study, as well as others I participated in this summer, allowed me to experience the pleasures and inconveniences of field research, and focus my interests, preparing me for further training in biological studies. Thanks to Tom Kaye, Bob Meinke, Matt Carlson, Steve Gisler, Jenny Tilson, Sue Kolar and Armand Rebeschke for a great summer.

Robin Russell

NPSO SYMPOSIUM ALMOST HERE

Well, it is almost here. As you are probably aware the NPSO Symposium is planned for November 15 - 17 at the LaSells Stewart Center on the Oregon State University campus in Corvallis. Registration will begin at 11:00 A.M. on the 15th. All registrants will receive a program which will include abstracts of all the presentations and posters, short biographies of presenters and a banquet ticket. I anticipate an excellent program which should be enjoyed by all.

On the evening of Thursday the 16th, we plan an open house at the OSU Herbarium and a presentation of on the continuing Oregon Flora and Atlas projects. It is an excellent opportunity to become acquainted with the new combined UO and OSU herbarium.

When this was written (Oct. 10) we had 127 paid registrants with a capacity of 200. At the current registration pace, we should be at capacity when this is mailed. If you haven't registered, call Bruce Rittenhouse, 503-756-0100 (days) or 503-888-9328 (evenings) for information.

Bruce Rittenhouse

ARCHIVE COLLECTION FOR NATIVE PLANT SOCIETY BEGINS

A proposal before the State Board of the Native Plant Society of Oregon is beginning to bear fruit. For 34 years members have been walking the wild places of our state, making plant lists and photographing wildflowers. To this point we have had only very loose methods and procedures for keeping a historic record of events, and a collection of photographs, pressed specimens and other artifacts. Most notable is the lack of a procedure for accepting collections of 35 mm slides from donors or from estates. Thus we have missed chances of receiving some personal collections of hundreds of slides of native Oregon wildflowers.

This has now been remedied and two steps have been taken: 1) Provision has been made for the safe storage of collections. 2) An agreement form has been developed, based on Yosemite National Park's Archival Collections, so we may receive donations of materials, including 35 mm slides.

In addition, a policy for the use of these materials is being developed, and we are calling for your input and recommendations. If you have comments, or if you wish to donate slides, please address them to:

Jerry Igo
P.O. Box 603
Mosier, OR 97040
503-478-3293

Education Committee Questionnaire

This survey is designed to help us decide what NPSO members want to see the Society do about education for the public, specifically to define the role of the Education Committee. The questionnaire will be available at the Plant Conservation Symposium in November (probably in the poster viewing room) and we invite you to stop by and share your ideas. If you won't be at the Symposium, please answer the questions and send them to my address at the end of the article.

1. What educational activities do you want NPSO to be involved in? State level? Chapter level?
2. What educational materials does your chapter have, if any?
3. What does your chapter need for educational materials?
4. Are you willing to help this committee by being

a member, chairing it, or donating materials?

Some old and new ideas for the committee.

1. Slide show with script or book on plants of selected areas in Oregon.
2. Plant posters for different chapters like the Siskiyou Chapter poster.
3. Rare plants of Oregon educational packet.
4. Plant conservation and information about the NPSO.

Other ideas? Please feel free to comment on educational issues you think are important to the future of our society.

Please send comments by January 10, 1996 to:
Esther Gruber McEvoy
3290 SW Willamette
Corvallis, OR 97333

Help Halt *Hydrilla*

The opportunity to be the first person to find *Hydrilla verticillata* in the state of Oregon is still available. The question being asked by resource managers is, "Is it out there undetected, or is it not yet introduced?" Your help is needed to find the answer.

Hydrilla's introduction appears likely with current infestations in California and Washington. It is an aquatic plant that can become established in a lake, river or canal. It is an aggressive plant that destroys fish habitat and degrades water quality. *Hydrilla* can also cause flooding by reducing water movement, and it clogs intake and fish screens.

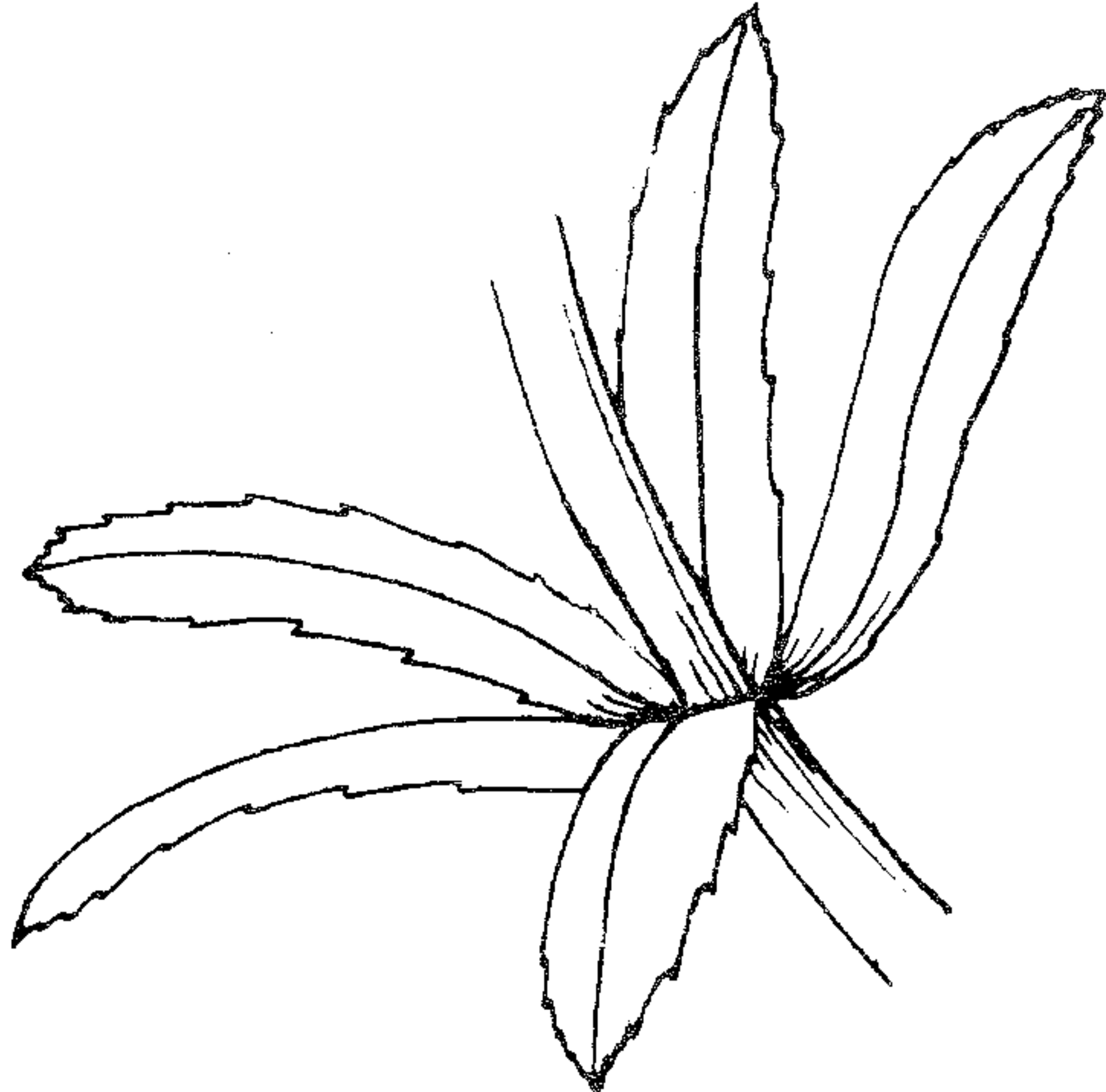
This plant pest spreads from one body of water to another on boats, motors, trailers, fishing tackle and possibly even waterfowl. *Hydrilla* may contaminate water plants sold in nurseries and tropical fish stores. A small fragment of the plant can grow into a large mass in only a few weeks.

To make positive identification check carefully for small spines on the underside of the leaf on the center vein, rough leaves with "sawtooth" edges, peanut sized tubers on the roots, and typically five leaves in a whorl.

The above information can be found, along with color photographs, in the Oregon Department of Agriculture's new brochure, "Help Halt *Hydrilla*." It was compiled by Mark Sytsma of Portland State

University. If you find *Hydrilla*, or need further information, please contact the Oregon Department of Agriculture at (503) 986-4621, or contact your local County Weed Control program.

Mary K. Corp
PNW Exotic Pest Plant Council



(Approximately 2.5x actual size)

Drawing by Oregon Department of Agriculture

NEW ADDITIONS TO OREGON'S THREATENED AND ENDANGERED PLANT LIST

In an effort to more accurately reflect the need for protection of Oregon's rare native plant species, the state list of threatened and endangered species was amended by the Oregon Department of Agriculture on July 12, 1995, resulting in the addition of 42 vascular plants (see Oregon Administrative Rules 603-73-070). These additions (listed below), the first since October, 1989, bring the number of protected taxa up to 61. Lest this be considered a high number, current estimates at Oregon State University place the total number of plant taxa in the state at 4,391 (excluding cultivated taxa). Based on U.S. Fish and Wildlife estimates, Oregon has the fourth highest total of native plant species formally considered for protection among the 50 states.

Many of the plants listed in Oregon are local endemics found nowhere else in the world, and, generally, only species at extreme levels of scarcity qualify for listing as threatened or endangered. Moreover, such species are only listed if they are clearly jeopardized throughout all or most of their

geographic ranges, as determined through field research and consultation with botanists and land managers throughout the state. In addition, hearings are held to solicit public comment on all proposed additions to the state list.

Despite the number of new additions to Oregon's list of protected plants, there will likely be little, if any, economic impact. The occurrences of listed plant species in Oregon are geographically minute, and there are no requirements by the Oregon Legislature or U.S. Congress to protect listed plant species on privately owned properties. Species listed by the Oregon Department of Agriculture are legally protected on all state-managed lands, however. Accordingly, the new additions to the list of threatened and endangered plants are a positive step in the direction of conserving the rare native flora of Oregon.

For additional information on the new additions, watch for the Oregon Department of Agriculture, Plant Conservation Biology Program display at the upcoming NPSO-sponsored symposium, "Conservation and Management of Oregon's Native Flora."

Following is the current, updated list of threatened and endangered plant species on Oregon. Taxa in bold print are the new additions for 1995.

PLANT SPECIES LISTED AS ENDANGERED

- Abronia umbellata*, subsp. *breviflora* (Standl.)
Munz Pink sand-verbena
- Artemisia campestris* L. subsp. *borealis* (Pall.)
Hall & Clem. var. *wormskioldii* (Bess.) Cronquist** Northern wormwood
- Astragalus applegatei* Peck Applegate's milk-
vetch
- Astragalus mulfordiae* M.E. Jones** Mul-
ford's milk-vetch
- Calochortus coxii* Godfrey & Callahan**
Crinite mariposa-lily
- Calochortus indecorus* Ownbey & Peck**
Sexton Mountain mariposa-lily
- Calochortus umpquaensis* Fredricks Umpqua
mariposa-lily
- Castilleja levisecta* Greenm.** Golden paint-
brush
- Cordylanthus maritimus* Nutt. ex Benth. subsp.
palustris (Behr.) Chuang & Heckard** Salt-
marsh bird's-beak
- Delphinium leucophaeum* Greene** White
rock larkspur
- Delphinium pavonaceum* Ewan** Peacock
larkspur

Erigeron decumbens Nutt. Willamette daisy
Fritillaria gentneri Gilkey Gentner's fritillary
Haplopappus radiatus (Nutt.) Cronq. Snake River goldenweed
Ivesia rhypara Ertter & Reveal var. *rhypara*
 Grimy ivesia
Lilium occidentale Purdy Western lily
Limnanthes floccosa How. subsp. *grandiflora*
 Arroyo Big-flowered wooly meadowfoam
Lomatium bradshawii (Rose) Math. & Const.
 Bradshaw's desert-parsley
Lomatium cookii Kagan Cook's desert-parsley
Lomatium erythrocarpum Meinke & Const.
 Red-fruited lomatium
Lupinus cusickii Wats. Cusick's lupine
Mentzelia mollis Peck Smooth mentzelia
Mirabilis macfarlanei Const. & Rollins
 Macfarlane's four-o'clock
Plagiobothrys hirtus (Greene) Johnst. Rough allocarya
Plagiobothrys lamprocarpus (Piper) Johnst.
 Shiny-fruited allocarya
Ranunculus reconditus Nels. & Macbr.
 Dalles Mountain buttercup
Silene spaldingii Wats. Spalding's campion
Stephanomeria malheurensis Gottl. Malheur wire-lettuce
Thelypodium howellii Wats. subsp. *spectabilis*
 (Peck) Al-Shehbaz Howell's thelypody
Trifolium owyheense Gilkey Owyhee clover

PLANT SPECIES LISTED AS THREATENED

Amsinckia carinata Nels. & Macbr. Malheur Valley fiddleneck
Aster curtus Cronquist White-topped aster
Aster vialis (Brads.) Blake Wayside aster
Astragalus collinus Dougl. ex Hook. var. *laurentii* (Rydb.) Barn. Lawrence's milk-vetch
Astragalus diaphanus Dougl. var. *diurnus* (Wats.) Barn. South Fork John Day milk-vetch
Astragalus peckii Piper Peck's milk-vetch
Astragalus sterilis Barn. Sterile milk-vetch
Astragalus tyghensis Peck Tygh Valley milk-vetch
Botrychium pumicola Cov. in Underw.
 Pumice grape-fern
Calochortus howellii Wats. Howell's mariposa-lily
Eriogonum chrysops Rydb. Golden buckwheat
Eriogonum crosbyae Reveal Crosby's buckwheat
Erythronium elegans Hammond & Chamb.

Coast Range fawn lily
Gratiola heterosepala Mason & Bacig.
 Boggs Lake hedge-hyssop
Hackelia cronquistii J.L. Gentry Cronquist's stickseed
Hastingsia bracteosa Wats. Large-flowered rush lily
Lepidium davisii Roll. Davis's peppergrass
Limnanthes floccosa How. subsp. *pumila* (How.) Arroyo Dwarf meadowfoam
Lomatium greenmanii Mathias Greenman's desert-parsley
Luina serpentina Cronq. Colonial luina
Lupinus sulphureus subsp. *kincaidii* (Smith) Phillips Kincaid's lupine
Mentzelia packardiae Glad Packard's mentzelia
Microseris howellii Gray Howell's microseris
Mimulus patulus Penn. Stalked-leaved monkey-flower
Oenothera wolfii (Munz) Raven, Dietrich & Stubbe Wolf's evening-primrose
Phacelia argentea Nels. & Macbr. Silvery phacelia
Pleuropogon oregonus Chase Oregon semaphoregrass
Senecio ertterae Barkley Ertter's senecio
Sidalcea nelsoniana Piper Nelson's checkermallow
Silene douglasii Hook. var. *oraria* (Peck) C.L. Hitchc. & Maguire Cascade Head catchfly
Thelypodium eucosmum Robins. Arrow-leaf thelypody

Steven Gisler

Oregon Plant Atlas Meetings

Two orientation meetings will be held for people wishing to adopt-a-block or be regional coordinators for the Oregon Plant Atlas Project. They will immediately follow the symposium, "Conservation and Management of Oregon's Native Flora," in Corvallis in November. The Atlas orientation meetings will be as follows:

Friday, November 17, First Interstate Room, LaSells Stewart Center --
 1:30 - 2:30 Adopt-a-block orientation
 2:30 - 3:30 Regional Coordinator orientation.

If you can't attend, but want to participate, an orientation packet will be mailed. E-mail Bruce Newhouse at 541.343.2364, newhouse@efn.org. Or call (503) 343-2364.

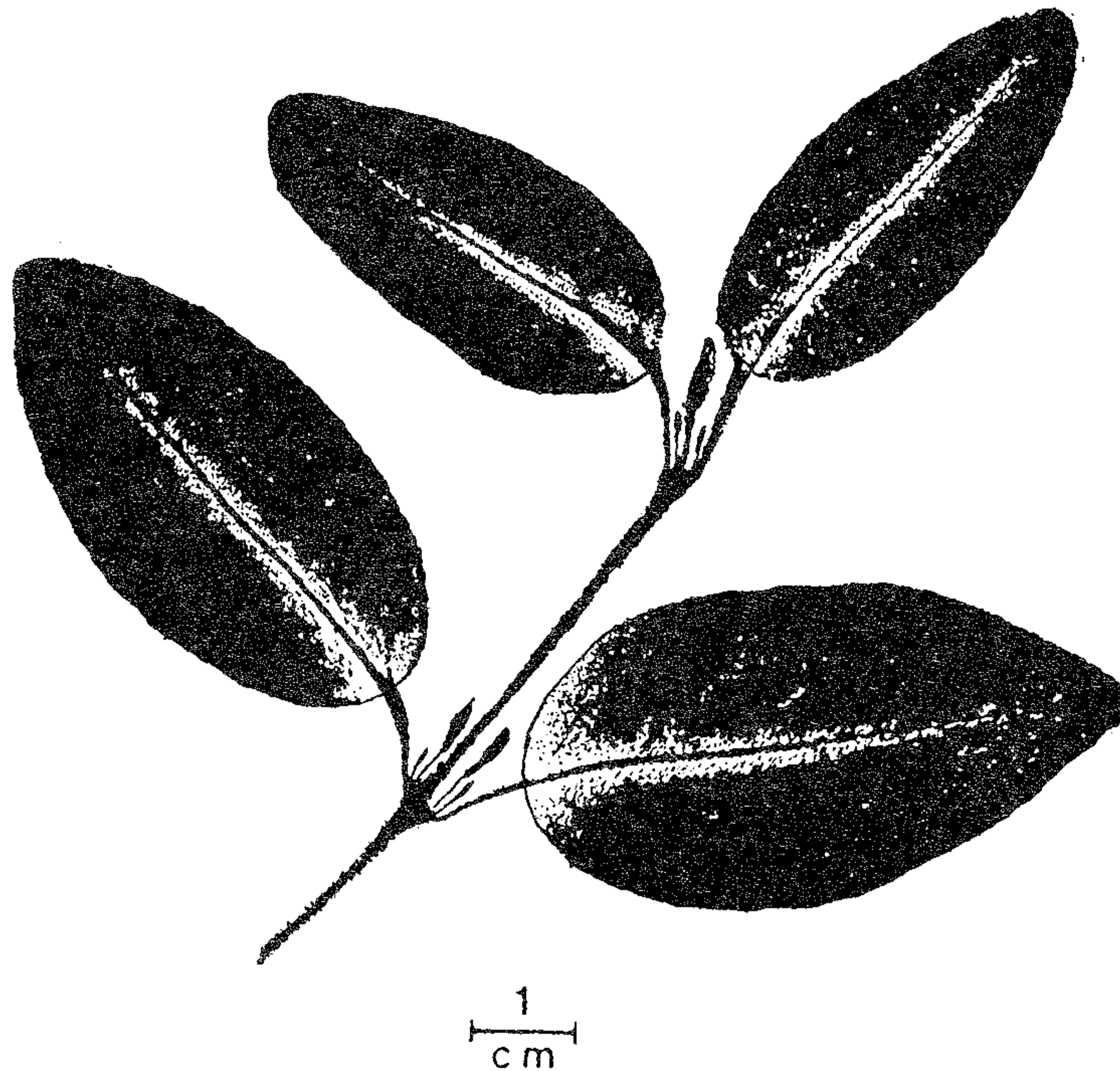
The Plant Puzzle

Sponsored by the Siskiyou Chapter

Can you name this native shrub? The first person to submit the correct scientific name will win a prize.

Send your guesses on a postcard to:

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



Carol Savonen of Philomath won the August puzzle. She was first to name native plants in five families found in both Klamath and Lincoln counties: *Adenocaulon bicolor* (trailplant), *Aquilegia formosa* (columbine), *Calypso bulbosa* (calypso), *Dicentra formosa* (bleeding heart) and *Equisetum arvense* (horsetail).

STATE OFFICERS

DIRECTORS (to 6/97) Dave Dobak, Rhoda Love, Kareen Sturgeon
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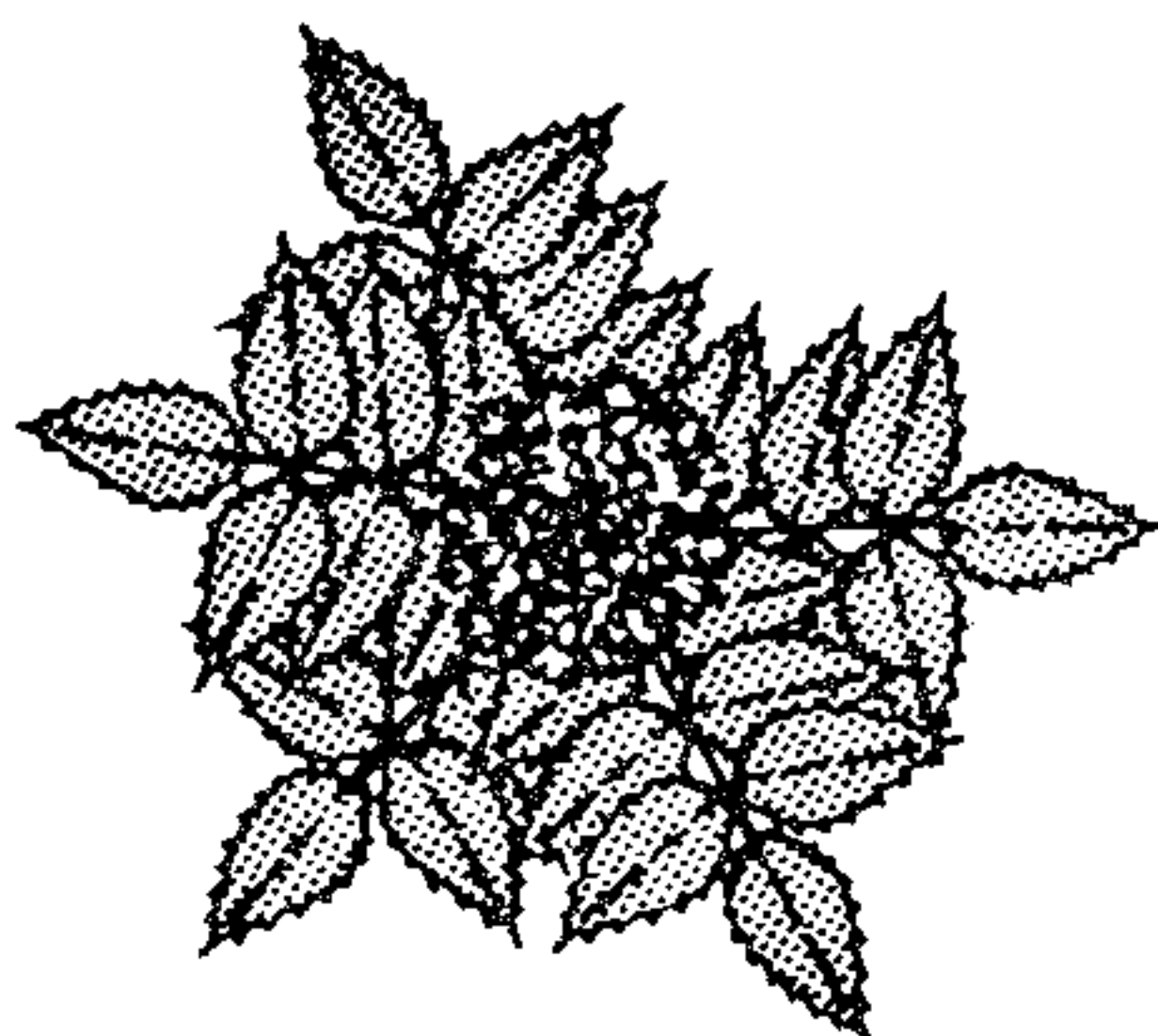
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