

To increase the knowledge of members and public in identification and conservation of the native plants of the Pacific Northwest

Volume 21 No. 6

June 1988

ISSN 0884-5999

CHAPTER NEWS

IMPORTANT NOTICE TO FIELD TRIP PARTICIPANTS

Field trips will take place rain or shine so proper dress and footwear is essential. Trips may be strenuous and/or hazardous. Please contact the trip leader for information about difficulty, mileage and terrain. You participate at your own risk. Bring water and lunch.

Blue Mountain

- 11 June, Sat. Field trip to Olive Lake. Meet at BMCC Greenhouse at 7:30am or at the 395 Junction west of Ukiah at 8:30am.
- 19 June, Sun. Field trip to Skyline Drive. This is a long day's trip on a sometimes rough gravel road from Jubilee Lake into Washington State. Meet at BMCC Greenhouse at 7:30am or at 8:30am at the turnoff to Jubilee Lake in Tollgate. Leader Bruce Barnes (276-5547).

Corvallis

- 13 June, Mon. Meeting, 7:30pm, Room 4083, Cordley Hall, OSU, Corvallis. Dan Luoma will show slides and talk about "Iron Mountain/Echo Mountain Field Trip Preview".

Emerald

- 4 June, Sat. Field trip to search for the Spring Phacelia, Phacelia verna, with Charlene Simpson in the Lowell area. Depart South Eugene High School parking lot, Patterson & 19th, at 10:00am. Contact Charlene (w: 686-3221, h: 465-1059) for more information.
- 13 June, Mon. Meeting, 8:00pm, Amazon Community Center, 2700 Hilyard St., Eugene. "A Hike Up Kilimanjaro." Naturalists Carol Savonen and Peter Zika will describe their ascent from the thorn savanna and rain forest up to the snows of this African Mtn.
- - - - (Aug.) (Dates to be announced.) Lane County Fair. Our Chapter has always had a booth in the Floral Display Building at the Fair. Volunteers are needed to set up and man the booth during the festivities. Fair entrance tickets are provided free to volunteers and the Chapter receives money for participating. Please contact Nadine Smith (344-6478) to help in any capacity. It is always fun and important educational opportunity for NPSO.
- 18 June, Sat. Field trip up Iron Mtn. trail. Depart 8:00 am from So. Eugene High School or meet at trailhead at 10:00am. Leader is Dan Luoma (758-8063). Joint trip with Corvallis Chapter. Gail Baker (344-0312) is in need of a Eugene contact person for this trip. The time is too near her baby's due date for her to go. If you plan to go on the trip, please consider acting as the "organizational leader" from Eugene to the trailhead. Contact Gail.
- 9 July, Sat. Field trip to Elk Meadows, a BLM Research Natural Area at 4000' on border of Lane & Douglas Cos. We'll see Sidalcea cusickii & Frasera umquaensis. BLM botanist, Peter Zika will lead (687-6691 days, 896-3853 eve. before 9pm). Depart SEHS at 9:30am.

High Desert

- 4 June, Sat. Field trip to Ochocos/Big Summit Prairie. Easy hiking and a fair amount of driving. We'll carpool in Bend at the McDonalds Restaurant, 2048 NE Third at 8:30am sharp, and meet others at the leader's (Christy Steck 447-4693) home on Ochoco Reservoir.
- 9 July, Sat. Field trip to Cultus Creek/Many Lakes. This proposed RNA off Century Drive is scenic and has old growth pine and spruce. Large springs and bogs are of interest. Moderate hike of 2 miles. Leader is Bill Hoskins (389-3330). Depart 8:30am from McDonalds Restaurant in Bend.
- 16 July, Sat. DATE CORRECTION. Field trip to Iron Mountain, a classic Cascades wildflower hike of 6 miles on a good trail. Leaders are: Marge Ettinger (382-2255) and Julie Robertson (388-1903). Depart from McDonalds Restaurant at 8:30am.
- 13 Aug., Sat. Field trip to Broken Top. An annual trip to see a spectacular display of alpine wildflowers. A 5 mile moderate to strenuous hike with a 1500 ft. elevation gain. Leader Stu Garrett (389-6981). Depart McDonalds at 8:30am.

Mid Columbia

- 1 June, Wed. Meeting, 7:30 pm at the Mosier School. Selected slides of NW native plants from the private collection of Dr. John Hammond, donated to the Berry Botanic Garden.
- 4 June, Sat. 2nd Annual Knapweed Pull on the Tom McCall Rowena Nature Conservancy Preserve. Starts at 9:00am. Bring gloves, hand tools, and lunch. Hike to the hilltop in the afternoon and/or return to Susan Kofahl's home in Mosier for refreshments.
- 6 July, Wed. Meeting, 7:30pm at the Mosier School. "A Lomatium Extravaganza." Ethnobotanist Gene Hunn from the University of Washington will present a program with slides on our various native Lomatiums. Samples will be discussed and species determinations made.

North Coast

- 2 June, Thur. Meeting at 7:00pm in the State Office Building, 3600 Third St., Tillamook.
- 18 June, Sat. Field trip to Nehalem Bay State Park. Meet at parking lot of the PUD, Tillamook 10am.
- 7 July, Thur. Meeting at 7:00pm in the State Office Building, Tillamook. For information, contact Clarice Maxwell (842-7023).

Portland

- 4 June, Sat. Join Mid Columbia Chapter for the 2nd Annual Knapweed Pull on the Tom McCall Rowena Nature Conservancy Preserve. Leave the Gateway Park-&-Ride at 8:00am or arrive at Rowena at 9:00am. Bring gloves, hand tools, and lunch. Afternoon hike to hilltop if desired and/or return to Susan Kofahl's home in Mosier for refreshments.
- 11 June, Sat. Field trip to Starvation Creek. Call Vance Terrall (281-2119) or Shep Wilson (228-7823) for details.
- 18 June, Sat. Field Trip to Saddle Mountain at the coast. Leave Zoo-OMSI parking lot at 9:00am. May need rain gear. Bring lunch. Leaders are Vance Terrall (281-2119) and Virginia Diegal (645-1344).
- or
- Friends of the Columbia Gorge Hiking Weekend trip to Multnomah Bog on Larch Mtn. with Elizabeth Handler (244-5320) and Esther Kennedy (287-3091).
- 14 June, Tues. Meeting, 7:00pm. First United Methodist Church, 1838 SW Jefferson St., Portland. George Lewis will show us pictures of plants that we're not apt to see often.
- 26 June, Sat. Annual Meeting at Silver Creek Falls State Park. Three field trips available to registrants. Write Willamette Valley Chapter for details: NPSO, PO Box 68, Salem, OR 97309.
- 2-4 July
July 4th Wkend. Field trip to Orcas Island. Barb Fox is leading this trip to the San Juan Islands. If interested, send her a postcard (11455 SE 35th, Milwaukie, OR 97222). Be sure to include your phone number.

or

Field trip to Siskiyou Mtns., Dutchmans Peak. Overnight camping trip two nights, so be prepared with food, shelter, cooking gear, etc. Meet at Ruch, Oregon country store

at 1:00pm on Sat. July 2. To get to Ruch, take I5 to Grants Pass, then Hwy. 238 to Murphy, Provolt, Applegate, Ruch; or leave I5 at Gold Hill exit, then south to Jacksonville and Ruch - 7 miles south on Hwy. 238. Call George Lewis (292-0415) for further details and plans.

9 July, Sat. Field trip to Wahtum Lake, Anthill Trail. two and one-half miles or longer if desired. Leave Gateway MAX Park-and-Ride at 8:00am. Regroup at Hood River Inn (Now Mendels) at 9:30am for drive to Wahtum Lake. Leaders: George Jeffcott and Herb Armentrout (658-2751).

16 July, Sat. Field trip to Monument Peak. Leave K-Mart parking lot in Tualatin at 8:00am. (Exit off Salem Freeway - I5, turn right and right again. Leader: Bryan Boyce. Contact Vance Terrall (281-2119) for further information.

Siskiyou

9 June, Thur. Potluck Picnic Get-Together: 6:00pm in Lithia Park, Ashland. Gather in the picnic ground across the creek from the upper duck pond. Bring something to eat or drink and share with others. This will be followed by:

Meeting at 7:30pm. Room 171, Science Building at SOSOC. Peter Zika will present "Flora of Northern New England."

25 June, Sat. Field trip all day to Bear Camp and Burnt Ridge Botanical Interest Area on Siskiyou National Forest. Led by Veva Stansell, renowned for her knowledge of the Siskiyou flora. Good opportunity to see Bensoniella oregana, Frasera umpquaensis and many other unusual plants. Jackson County meet at Medford's K-Mart parking lot at 8:30am. Josephine County people meet at the Sentry Market in Merlin at 9:20am rendezvous.

- - - - - (July) No meeting until September, see next month's announcements.

24 July, Sun. Field trip to Mt. Eddy. Anyone interested in making this trip into a weekend campout, call Wayne Rolle (482-0093).

Willamette Valley

4 June, Sat. Field trip to Mary's Peak (moderate, $\frac{1}{2}$ mile hike to summit). Carpool at 8:00am at South Salem K-Mart. Leader: Janet Skirrow (363-5621).

11 June, Sat. Field trip to Suttle Lake (easy, 2-mile hike). Carpool at 7:30am at South Salem K-Mart or meet at Suttle Lake Methodist Youth Camp at 10:00am. Leader: Wilbur Bluhm (393-2934).

18 June, Sat. Eighth Annual Columbia Gorge Hiking Weekend. Twenty easy or moderate hikes. Ask at Salem Public Library or call Clint Urey (743-2802) for details. Three particularly good hikes for wildflowers should be: Multnomah Marsh, below Larch Mtn. (easy hike), Catherine Creek, near Lyle, WA (easy), and Eagle Creek (moderate).

25 June, Sat. Field trips in conjunction with the NPSO Annual Meeting at Silver Falls State Park. Leave at 9:00 am from Silver Falls Conference Center. (Meeting registration of \$5.50 includes participation in field trips--can be paid in advance or to trip leaders). Trips: (1) The Flora of Silver Falls St. Park; (2) Grasslands remnants and vernal pools of Willamette Valley and foothills. If demand and bloom are sufficient, there will be a third trip to Henline Mt.

Special Note: Unscheduled Mid-Week trips will be arranged by telephone tree, depending on weather, season, and interest. To sign up, call Clint Urey (743-2802) or Glenn & Barbara Halliday (371-1025).

Wm. Cusick

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For information, contact Rachel Sines (963-0674).

BULLETIN SCHEDULE ALTERED THIS SUMMER

Production schedules during the summer will cause the August Bulletin to be printed about a week later than normal. It may not reach members until the second week of August.

Field trip and program chairpersons should submit their early August event information by June 10 deadline for publication in the July issue.

Two Columbia River Gorge Books Published

Wildflowers of the Columbia Gorge: A Comprehensive Field Guide, by Russ Jolley, includes 744 flowering plants, grouped by plant family. There is a guide to blooming seasons, and a fold-out map showing where to see the flowers. Published by Oregon Historical Society Press, the book is 348 pages with nearly 750 color photographs. Paperbound, 5 x 8 inches. \$19.95.

Columbia River Gorge, photography by James O. Holloway, includes 72 color photographs in a large-format book. Introduction, flora and fauna text, and captions are by Jean Siddall. Historical text is by David Kelly. Geological text is by John Eliot Allen. \$24.95.

JULIE KIERSTEAD RECEIVES CHEVRON CONSERVATION AWARD

Julie Kierstead has received a 1988 Chevron Conservation Award for her work as conservation coordinator for the Berry Botanical Garden.

The major activities which earned her this recognition were her "pivotal role" in passage of the Oregon Endangered Species Act, and her plant conservation efforts as director of the Seed Bank for Rare and Endangered Plants.

21 individuals and five organizations were honored by these awards, presented May 18 in Washington, D.C.

The Chevron Conservation Awards Program was founded in 1954 by Ed Zern, nationally prominent outdoor writer, and sponsored by Chevron since 1986.

IT'S T-SHIRT WEATHER

If you haven't purchased a Native Plant Society T-shirt, or would like to get another. Check the list below to see what we have available.

T-shirts are 100% pre-shrunk cotton. Please indicate the size, color and number desired. Include \$1.00 each for postage. Make checks payable to the Native Plant Society of Oregon.

Mail order to Nadine Smith, 1128 Jackson, Eugene, OR 97402

Short sleeve T-shirts

NPSO emblem (green ink on white) ~~3~~ ~~1~~ sold
Opuntia polyacantha gray 1 S 3 L 2 XL
Smilacina racemosa light blue 6 M 2 L
Darlingtonia californica lilac ~~7~~ ~~8~~ sold
Delphinium leucophacum teal 2 S 2 M
Lomatium cookii yellow 3 S 2 M 2 L

Long sleeve T-shirts

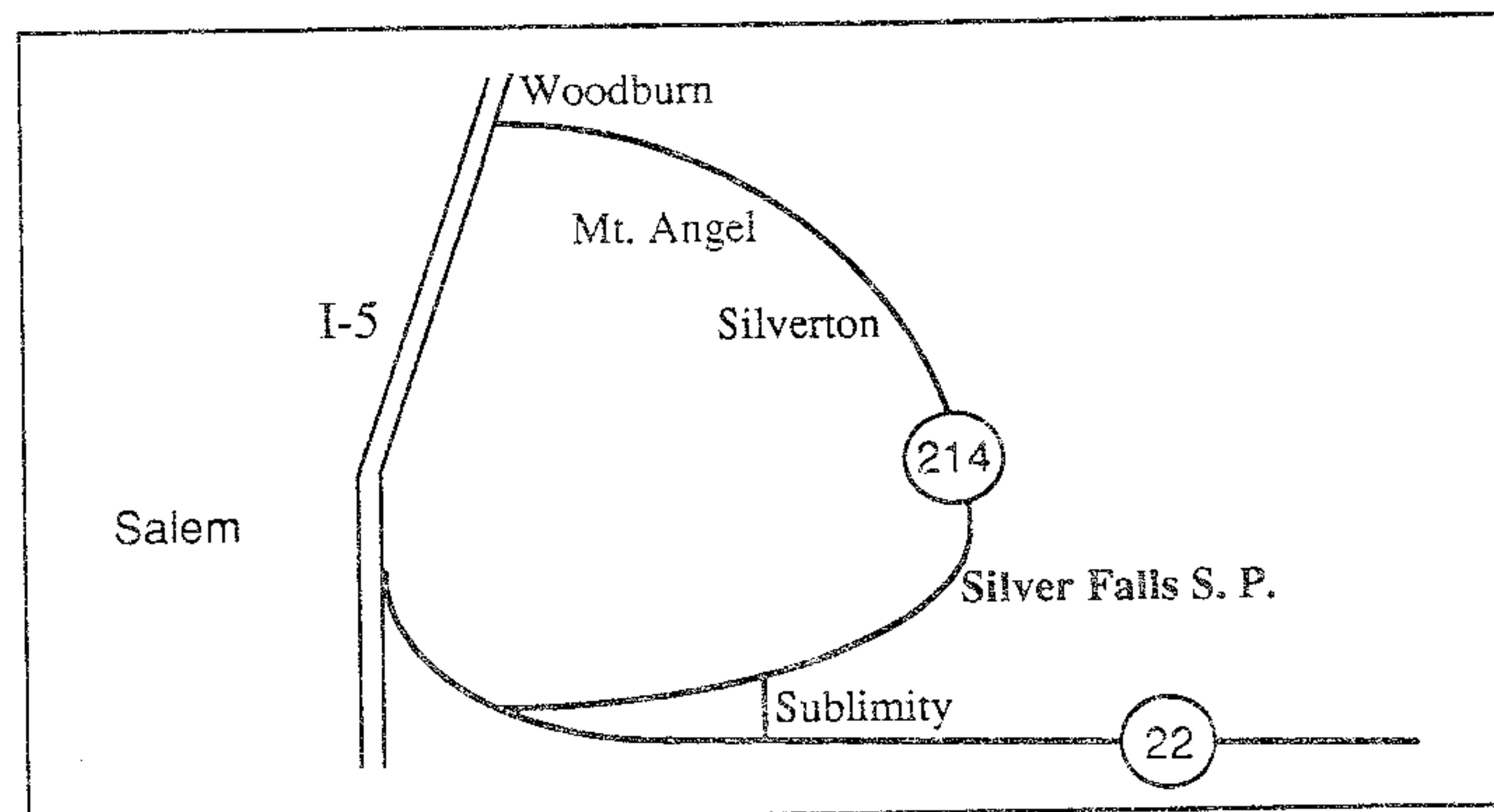
Opuntia polyacantha white 1 S 4 M 3 L 1 XL
Opuntia polyacantha gray 1 S 2 M 1 L 1 XL
Opuntia polyacantha lilac 1 XL
Opuntia polyacantha red 1 M 2 L
Smilacina racemosa light blue 1 M
Erythronium oregonum yellow 1 M 3 L

Sweatshirts

Cornus canadensis teal 5 L 1 XL

NPSO T-shirts \$6.25
 All other short sleeve T-shirts \$7.00
 Long sleeve T-shirts \$10.00
 Sweatshirts \$16.00

NPSO BOARD MEETING
 Main Meeting Hall,
 Silver Falls Conference Center
 20024 Silver Falls Highway (214)
 Sublimity, OR 97385
 Sunday, June 26, 1988 9 a.m.



From the north, take the Woodburn exit off I-5 and follow Highway 214 thru Mt. Angel and Silverton to Silver Falls State Park. From the south, take the Santiam Highway (22) exit off I-5 to the Silver Falls Highway (214). Those coming from the east on Highway 22 should exit thru Sublimity to Highway 214.

**Send Agenda Items
 to
 Dan Luoma**

WARNING: BE CAREFUL WHERE YOU SPEND
YOUR CONSERVATION DOLLAR!

Salem citizens have recently been receiving telephone solicitations from a for profit company calling itself "Wildflowers for Our Children." Nearly all of the species they intend to plant are not native to Oregon. At this time, there is some question as to whether they have gone through formal channels to get permission from the public agencies who manage the land where they say they intend to plant. "Wildflowers for Our Children" is currently under investigation by the Financial Fraud Section of the Department of Justice and is working with the Department to meet the requirements of the Unlawful Trade Practices Act.

--Willamette Valley Chapter

WILDFLOWER SHOW A SUCCESS

The Willamette Valley Chapter hosted its annual wildflower show Mothers' Day weekend at Silver Falls State Park. The event was well attended both days despite forecasted rain for Saturday and actual rain on Sunday. The public was treated to a nice display featuring more than two hundred species collected by Chapter members and arranged in family groupings. Most of the plants were natives of the central Coast Range, Willamette Valley, and foothills. Alien species were politely identified as "introduced". Wildflower slide shows were presented several times each day -- Don and Priscilla Eastman provided the slides Saturday, and George Schoppert showed his on Sunday. Larry Scofield led several short nature walks for Sunday's visitors. The show is held each year in May, on Mothers' Day weekend, at Silver Falls State Park, 30 miles east of Salem.

-- Pat Rogers-Rochna
Willamette Valley Chapter

Wildflowers of the Cascades

Dan Luoma will be teaching a community education class through Linn-Benton Community College in July (M&W starting the 11th, 3 wks.). This will be a "fun" course, designed to introduce students to basic plant morphology and common plant families of the Western Cascades. Ross and Chambers' new book (see the May Bulletin for Rhoda Love's review) will be used to identify the plants encountered on the two Saturday field trips. Call Dan or LBCC at 967-6108 for information.

PORTLAND CHAPTER ELECTS NEW OFFICERS

New officers of the Portland Chapter are:

Esther Kennedy, President
George Lewis, 1st Vice-President (programs)
Vance Terrall, 2nd Vice-President (field trips)
Mary Jane Fredricks, Treasurer
Laura Gasaway, Secretary
Russ Jolley, Conservation Chair

FLOWERS IN THE FOREST: A REPORT

Are wildflower displays worth the effort? We thought so, when the doors closed on the Portland Chapter show May 14-15 at World Forestry Center (earlier in the week, of course, as we scrambled through the final stages, there might have been a different answer!).

Attendance totaled 1,470, WFC told us. This is our educational service, NPSO does not collect a show admission. Enthusiastic response, many questions, many compliments, convince us that we have done well. Memberships, posters, pins and cards sold briskly.

Book sales flourished, with Russ Jolley signing "Wildflowers of the Columbia Gorge," and Jim Holloway and Jean Siddall autographing many copies of "Columbia River Gorge."

Nearly 600 identified specimens were on display. The habitat-grouping led to duplication in many cases, such as vine maple on several tables, so the species list would be 500+.

The SKO sign was out for every slide show, by Don Eastman of Willamette Chapter, Russ Jolley (two shows), Steve Gasaway, Dave Dobak, Esther Kennedy, Carroll Dubuar, George E. Lewis, Mike Fahey and Vance Terrall.

Handouts included our own chapter brochure, plus extra newsletters, plus the "green sheet" about respecting native plants (thanks to a fast job of revision & reprint by Rhoda Love). At the book display, a reading list was issued. A "don't dig" message with suggested sources of plants and seeds was popular with gardeners.

Sensitive plants were admirably recognized in a large photo display by Jean Siddall including work of 18 other photographers.

Most of the participants were recognized in a special Portland Chapter newsletter, and we can't take space to describe each of the 14 display units, but let us record a few highlights:

The east end of the Gorge was spectacular, thanks to Keith Chamberlain's arrival from Mid-Columbia. We were honored that Ruth Keen included some of her beautiful herbarium sheets in the Grass-Rush-Sedge display she did with Barb Fox. The board of conifer ID with cones, and an array of galls will both be used elsewhere. The David Douglas showcase will remain in the Forestry Center lobby for a while. People who thought moss was just one kind of green stuff were captivated by the informative and beautiful table that Kimberley St. Hilaire produced.

There was much note-taking and photographing. We learned some things ourselves. One visitor was looking for the "Indian Headdresses." Did you ever hear that one for Shooting Stars or Bird's Bill or Dodecatheon??

It was a lot of work, actually it was a lot of fun, we recommend it highly to another committee next year.

--Jeanne Huffstutter, chairman, Florence Ebeling, Esther Kennedy, Louise Godfrey

PLANT SURVEY: AN OPPORTUNITY

Ever wonder exactly how those plant surveys are made in the national forests? Lois Kemp, botanist in the supervisor's office for Mt. Hood National Forest, is inviting ten of us to participate in a Sensitive Plant Survey in the MHN on Wed., June 15.

To be one of the ten for this unusual day, off the usual trails, call Lois, 760-4998, evenings.

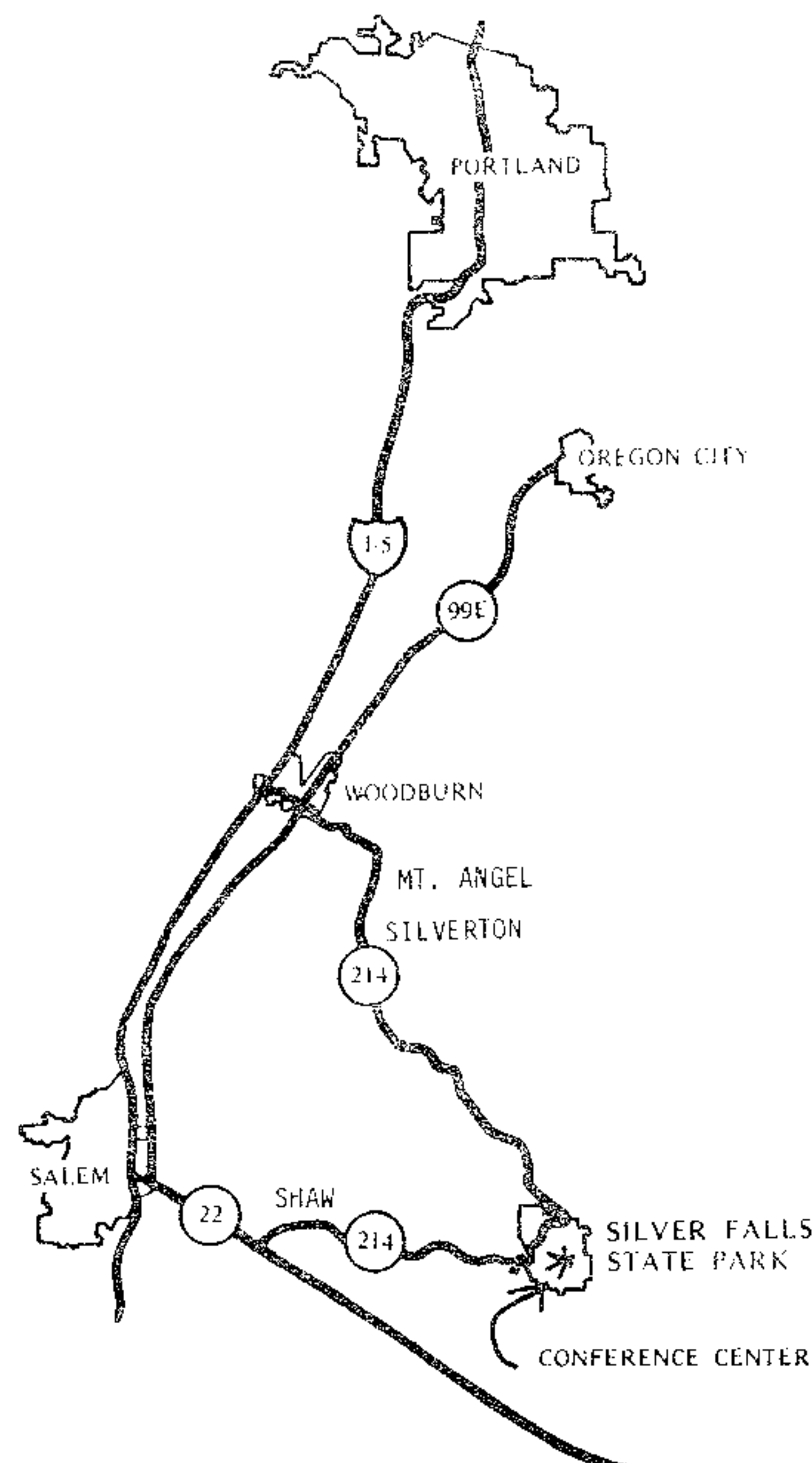
The registration deadline (May 15) has passed, but we'll still accept registration forms and money until we are booked up.

Ed Alverson's field trip to see Willamette Valley grassland remnants is full. There is still space on the other field trips: 1) Wilbur Bluhm's exploration of Silver Falls, the largest state park in Oregon; and 2) Susan Kephart and Pat Roger-Rochna's trip to a small, nearby volcanic peak, Henline Mountain. Field trips will meet at 9 am in front of the dining hall, and depart at 9:10 sharp. Field trips will return to the Conference Center by mid- or late-afternoon.

You can look forward to receiving an updated edition of the statewide NPSO membership roster at the annual meeting.

The menu planned for the banquet includes chicken teriyaki, wild rice, stir-fried vegetables, and fresh strawberry pie. We sampled it, and it was delicious! Among the festivities after dinner will be the installation of officers and the giving of grants and awards. We are pleased that Susan Cockrane, coordinator of the State of California Plant Program will give the keynote speech on putting a state threatened and endangered plant law into effect, and how NPSO can help with the Oregon law. She will relate some of their success stories and give us advice on where to use caution.

Dan Luoma has arranged for child and infant care during the banquet and possibly at other times. The cost will be dependent on the number of children involved. Talk to Dan or his wife, Sunny, to make arrangements (758-8063). There is no charge for children who sleep on the floor in their parents' room. If a child sleeps in a bed, he must pay the full adult price. Please let the registration people know if a child will be sleeping on the floor. Meals for children 6 and under are 1/2 price.



On April 25, I was stopped near MP 5 on the road (US 30) between Mosier and Mayer State Park. I had stopped to see if the Allium douglasii had started to bloom in the fields on either side of the road. A few lupines, camas, balsamroot, and others were in bloom in the highway right-of-way.

An Oregon Department of Transportation truck was approaching from the west, spraying the entire right-of-way on the south side. So powerful was the spray that a considerable amount was projected over the fence onto private lands beyond the right-of-way.

It was a two-man crew, a driver and an operator using a hand-held nozzle. They told me that they were using a soil sterilant and that their instructions from their foreman had been to "spray the right-of-way." Now, soil sterilant is used to eliminate all vegetation from an area and is normally directed into the zone immediately adjacent to the pavement, but this operator was directing most of the spray beyond the ditch onto the outer part of the right-of-way.

I went to the State Highway office in The Dalles to find out who was responsible for this needless and wasteful destruction of roadside wildflowers. Chet Anderson, District Maintenance Supervisor at The Dalles, appeared to be surprised to hear that the entire R-O-W was being sprayed. He confirmed my belief that the operator was supposed to restrict the spray to the few feet next to the pavement.

During my brief conversation with Mr. Anderson, he indicated that he did not, however, sympathize with the Native Plant Society's objective of protecting native wildflowers in the roadside. I responded that at least he could understand our objective, but he again declined to agree.

With this expressed lack of concern for native plants on the part of a highway official responsible for many miles of highway in the east Gorge, the outlook for native plants in this area is not bright. Certainly a lot of damage has been done along both sides of the US 30 route between Mosier and The Dalles. It may take years to recover from the dose of soil sterilant.

Protecting our roadside wildflowers is not a hopeless cause, however. The attitude of Chet Anderson is not typical of most highway officials. Harry Woodward, District Maintenance Supervisor for the west end of the Gorge in Oregon, understands the NPSO position and is willing to cooperate, although we cannot expect protection of wildflowers to be one of his top priorities. We just have to let the highway people know, again and again, that protection of roadside wildflowers is important, especially in the Columbia Gorge National Scenic Area.

Rowena Plateau Field Trips Every Weekend

NPSO and The Nature Conservancy sponsor field trips on the Tom McCall Preserve at Rowena every weekend through May 22. Each trip is one-and-a-half hours. Saturday hikes begin at 11 a.m., 1 p.m., and 3 p.m.; Sunday hikes begin at 1 p.m. Meeting place is the stile and large wooden sign just north of the Mayer State Park loop.

CATTLE WRECK POND ON PUBLIC LAND

When the Columbia River Gorge National Scenic Area was created by Congress in 1986, more than a dozen scattered pieces of public land previously administered by the BLM came under Forest Service management as national forest land. One of these is a 60-acre parcel just south of the Dalles Mountain Road, about 1.25 miles from Washington State Highway 14.

On this parcel there is a vernal pond (one which goes dry in mid to late summer). This pond lies about 750 feet from the road. A lot of native plants grow at the pond, including one which is on the Washington Natural Heritage Program list of Sensitive plants, *Machaerocarpus californicus*, Fringed Water Plantain, which should be blooming in early June.

It should be blooming there in June, but there is no assurance that it will get a chance to bloom this year, because there is a problem, namely, cattle! The cattle trample the plants and convert the edge of the pond to a muddy mess. Since the pond is where they spend most of their time, that is also where they leave most of their manure. Sometimes 20 cattle have been seen standing in and around the pond. Besides the pond, there are other vernal wet areas on this predominantly arid land, including a nice camas patch and a spring area. All the wet areas are laid waste by the cattle.

But there is something quite special about these cows, namely, the fact that they are trespassers! They actually belong on adjacent private land, but since there is no fence around the public land, they wander freely over the latter, eating the public's grass and making a mess of all the wet areas.

This trespass situation has apparently been going on for a good many years. At one time, the adjacent landowner held a permit to graze the public land, but that permit expired years ago. Since that time cattle have been trespassing on the public land. Clearly, the situation cannot be allowed to continue.

One option available to the Forest Service is just to issue a new grazing permit, validating the present situation. The Native Plant Society would strongly oppose this, since continued damage to the wet areas would be unacceptable.

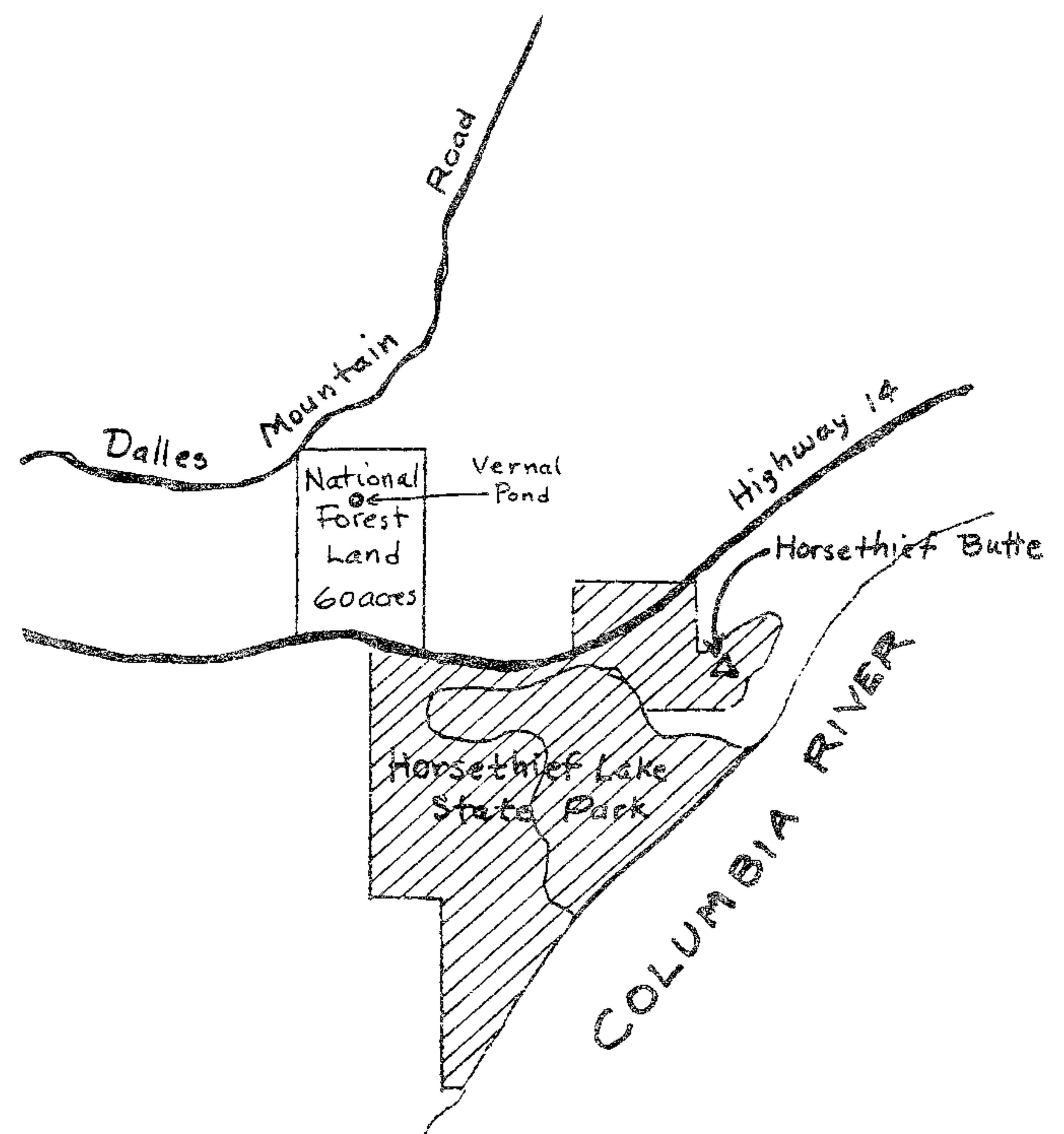
A second option would be to issue a new grazing permit, but to fence the entire 60-acre parcel (now unfenced) and to construct protective fencing around the pond and other moist areas, leaving the balance of the area for grazing. But we are not talking about good grazing land; this is scabland, miserably poor grazing land, providing only a short season of low quality forage. All this fencing would be a poor in-

vestment, considering the meager benefits to be obtained by grazing the land. NPSO would oppose this option, as well.

A third option - one that NPSO supports - is to get the trespass cattle off the area immediately, fence the west boundary of the national forest parcel, and not issue a new grazing permit. Since the trespass cattle all come from the landowner on the west side, only this side needs fencing. In fact, it is the legal responsibility of that landowner to keep his cattle from trespassing. The fencing operation could be a joint effort by the Forest Service and the west side landowner, with NPS volunteer workers helping to get the job done. Pending construction of the west side fence, an electric fence could be quickly installed around the pond to protect it from further abuse.

There is very little public land in the east Gorge where people can walk without fear of encountering cattle and manure, and where plants can grow to maturity without risk of being trampled or eaten. This 60-acre parcel should be saved for plants and people.

The status of this problem will be updated in one of the summer bulletins.



ROCK GARDEN SOCIETY MEETING -- JULY 29-31.

The public is welcomed to attend the American Rock Garden Society's annual meeting at Rippling River Resort near Mt. Hood, July 29-31. Among the featured speakers is Lois Kemp.

Registration fee is \$60. Contact Ruth Korn, 3602 Robin View Dr., West Linn, OR 97068, 503-636-5238, for more information.

IN APPRECIATION

Dale Jensen has made the plant labels for the "walkabout" at Leach Botanical Park during the 40 Mile Loop Year celebration. This is as a contribution of the Portland Chapter NPSO, which is most grateful to Dale for his splendid work on this project.

PLANT TAXONOMY IN THE WESTERN UNITED STATES:
AN IMPENDING REVOLUTION?

Botanists working in the Great Basin and central Rocky Mountains are beginning to use scientific names that would be unfamiliar to many wildflower enthusiasts of the Pacific Northwest. Why are these sweeping changes in plant taxonomy being proposed? Although many factors are involved, perhaps a return to the narrower generic concepts of the late nineteenth century is an important one.

Per Axel Rydberg and Edward Lee Greene were botanists working in the western United States during the late 1800s. They often proposed smaller, more narrowly-defined genera than their counterparts at the dominant "eastern establishment" -- Harvard University at Cambridge, Massachusetts. [Asa Gray and Sereno Watson were prominent taxonomists of that era at the Harvard Herbarium.] Rydberg and Greene were denigrated as "splitters" and considered the "bad guys" of their time by eastern botanists who favored a conservative, "status quo" taxonomy (they were the "lumpers" or good guys). It's interesting that Rydberg and Greene were only advocating a return to generic concepts originally proposed by European botanists between about 1750 and 1850. The European proposals were rejected by botanists who adhered to an artificial taxonomic classification developed by Linnaeus and published in 1753 as "Species Plantarum".

What is the basis for these new scientific plant names? Recent advances in scientific technology and analysis procedures have provided a wealth of biochemical information about plants. Development of the scanning electron microscope, genetic techniques that simplify identification of chromosome numbers, and sophisticated chemical analyses of leaf and twig oils and other plant compounds have allowed taxonomists to base their genus and species determinations on a variety of factors. Although morphological features were historically important for separating genera and species, a "biological genus concept" that incorporates all aspects of plant biology and behavior is now emphasized.

Many professional and amateur botanists dislike the recent changes in plant taxonomy. Some of their dislike is motivated by a desire to maintain the status quo, but much of it is based on emotional or psychological discomfort. After all, how many plant lovers will readily accept their cherished *Caltha leptosepala* (elkslip marshmarigold) being changed to *Psychrophila leptosepala*, or *Cornus canadensis* (bunchberry) going to *Chamaepericlymenum canadense*? And to add insult to injury, obscure latin names that have finally been mastered after years of use are now being replaced with tongue twisters like "Chamaepericlymenum". What a fate for the names of familiar friends!

Just how pervasive are the proposed changes? They cover the whole spectrum of vascular plants, but are particularly common in the chickweed (Asteraceae), sunflower (Asteraceae/Compositae), mustard (Brassicaceae), gentian (Gentianaceae), orchid (Orchidaceae), grass (Poaceae/Gramineae), saxifrage (Saxifragaceae) and rose (Rosaceae) families. This list

is a small sample of northwestern plants which have recently had new names proposed for them:

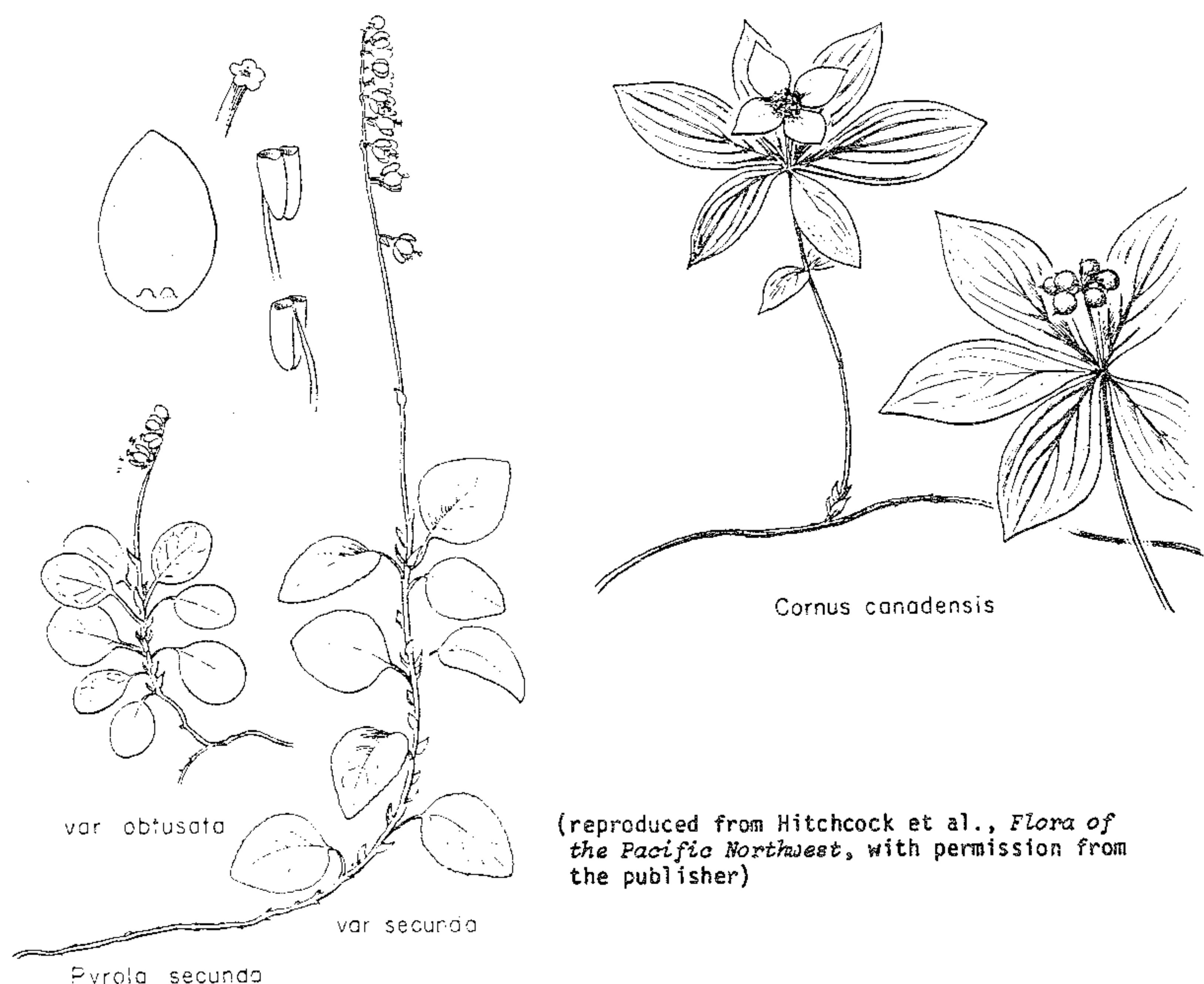
Name in Flora of the
Pacific Northwest
(from Hitchcock and
Cronquist 1973)

Proposed New Name

<i>Abies lasiocarpa</i>	<i>Abies bifolia</i>
<i>Agropyron scribneri</i>	<i>Elymus scribneri</i>
<i>Arctostaphylos uva-ursi</i>	<i>Arctostaphylos adenotricha</i>
<i>Artemisia campestris</i>	<i>Oligosporus campestris</i>
<i>Artemisia tridentata</i>	<i>Seriphidium tridentatum</i>
<i>Clematis columbiana</i>	<i>Atragene columbiana</i>
<i>Epilobium angustifolium</i>	<i>Chamerion danielsii</i>
<i>Gentiana calycosa</i>	<i>Pneumonanthe calycosa</i>
<i>Geum triflorum</i>	<i>Erythrocoma triflora</i>
<i>Habenaria hyperborea</i>	<i>Limnorchis hyperborea</i>
<i>Haplopappus uniflorus</i>	<i>Pyrrocoma uniflora</i>
<i>Hordeum jubatum</i>	<i>Critesion jubatum</i>
<i>Juniperus scopulorum</i>	<i>Sabina scopulorum</i>
<i>Potentilla fruticosa</i>	<i>Pentaphylloides floribunda</i>
<i>Prunus virginiana</i>	<i>Padus virginiana</i>
<i>Pyrola secunda</i>	<i>Orthilia secunda</i>
<i>Rubus parviflorus</i>	<i>Rubacer parviflorum</i>
<i>Saxifraga rhomboidea</i>	<i>Micranthes rhomboidea</i>
<i>Sedum lanceolatum</i>	<i>Amerosedum lanceolatum</i>
<i>Sitanion hystrix</i>	<i>Elymus elymoides</i>
<i>Smilacina racemosa</i>	<i>Maianthemum amplexicaule</i>
<i>Smilacina stellata</i>	<i>Maianthemum stellatum</i>
<i>Thlaspi fendleri</i>	<i>Noccaea montana</i>
<i>Zigadenus elegans</i>	<i>Anticlea elegans</i>

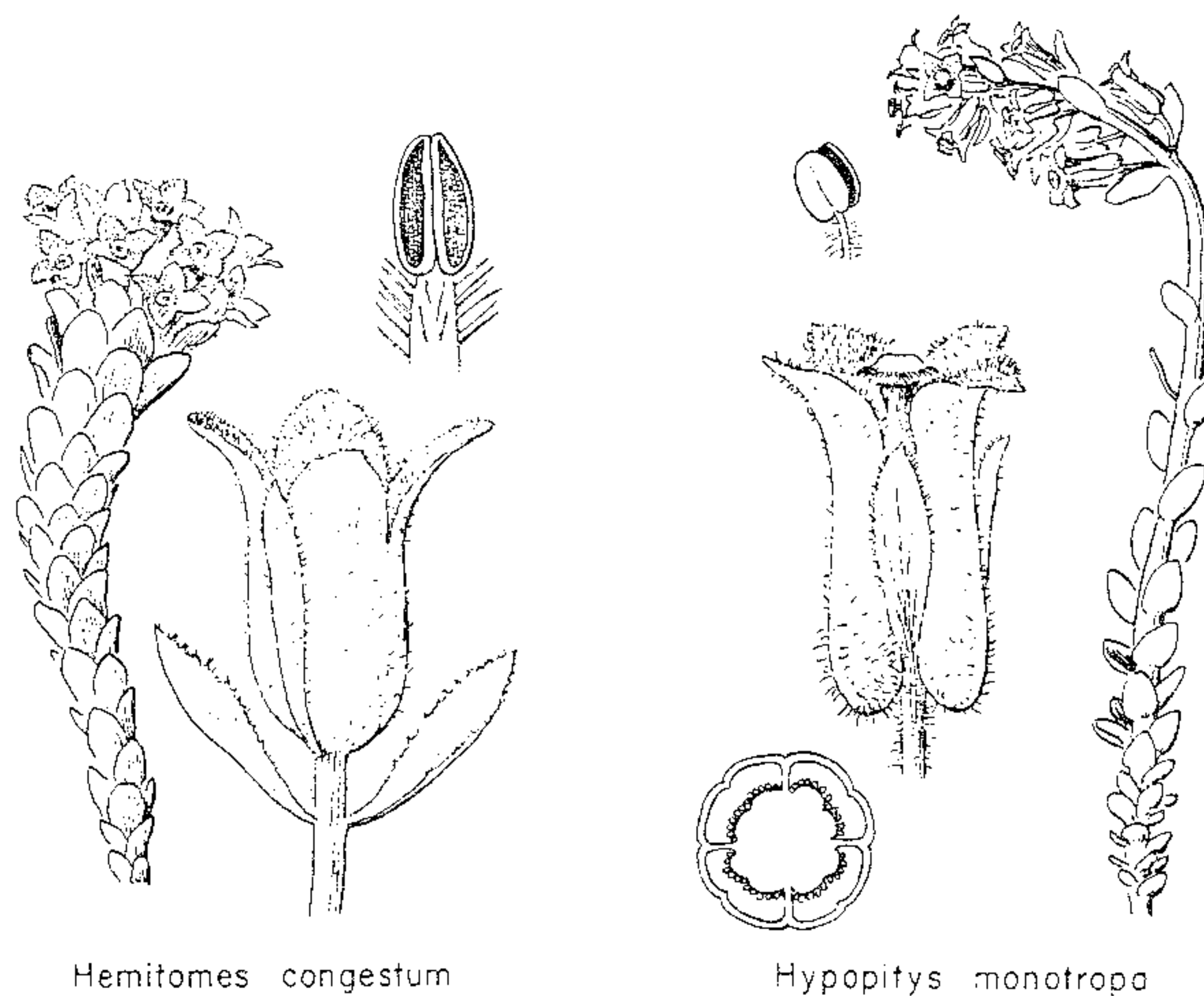
[Note: This article's historical perspective was adapted from "Colorado Flora: Western Slope" by W. A. Weber, Colorado Ass. Univ. Press, 1987, 530 p.]

David C. Powell
John Day, Oregon (Blue Mountain Chapter)



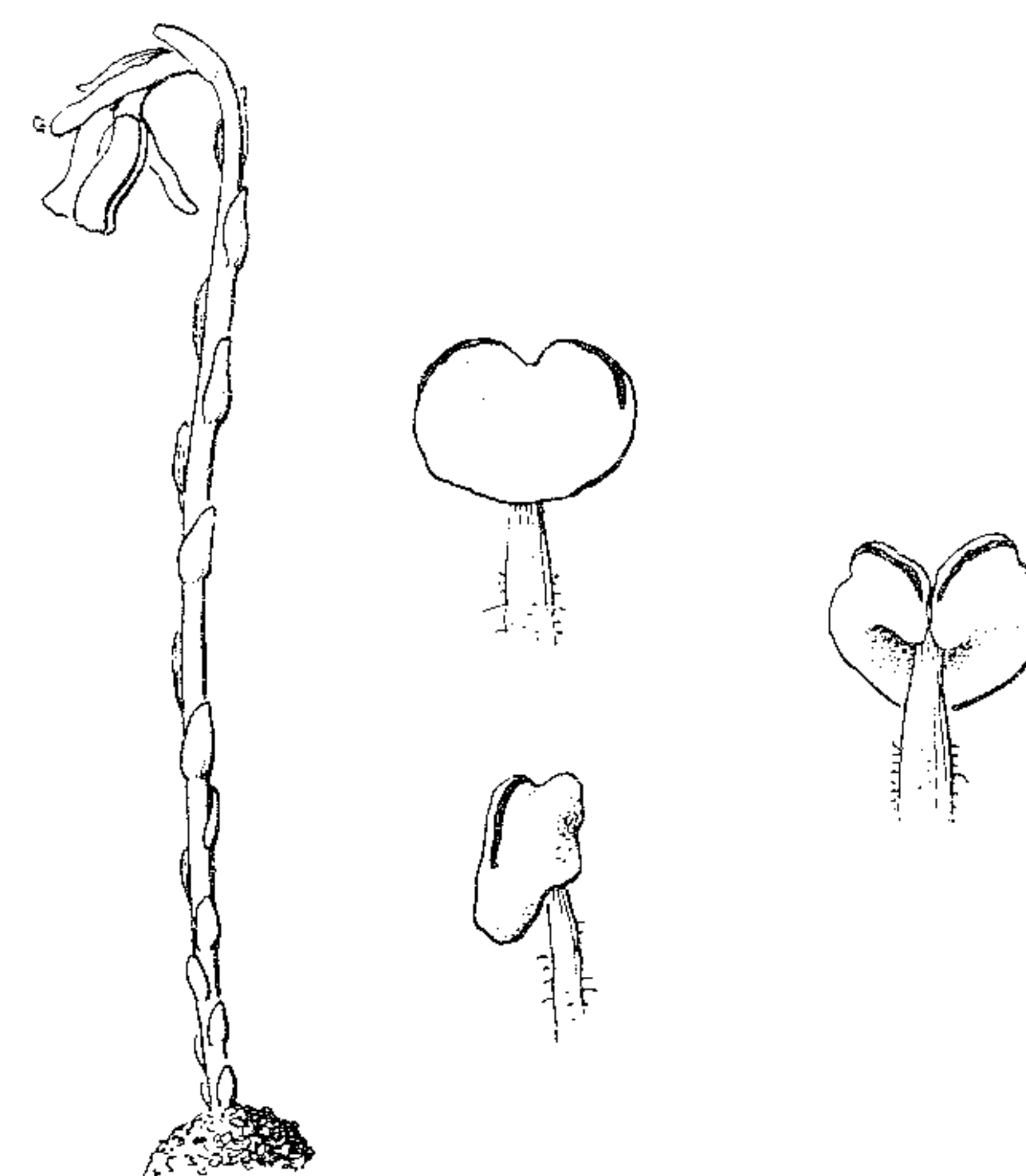
**Field Key to the Monotropoideae of
California,
Oregon, and Washington**

- 1a. Plants low to the ground at maturity, old stalks not persistent, fruit a berry, seeds attached to inward projections from the berry wall, style and ovary merge smoothly.
- 2a. Petals united, hairy on inner surfaces, flowers in a dense head, usually just emerging from duff, pink when young, fading to straw-colored.
Hemitomes congestum
- 2b. Petals free, flowers in a more elongated raceme, cream to straw colored, elevated somewhat more above the duff.
- 3a. Petals densely hairy within, anther rounded.
Pityopus californica
- 3b. Petals not hairy, margin fimbriate, anthers elongate.
Pleuricospora fimbriolata
- 1b. Plants not low to the ground at maturity, old stalks often present, fruit a capsule, seed attached to a central column, style not evenly continuous with ovary.
- 4a. Plants bright red or red and white striped when fresh.
- 5a. Plants bright red, fading to brownish red, capsule hard and shinning, seeds round, about 1 mm, not known north of Douglas Co., OR.
Sarcodes sanguinea
- 5b. Plants red and white striped, pale when emerging and staining green at times, drying to black, flowers open and shallow with stamens exerted.
Allotropa virgata
- 4b. Plants pinkish, to dull orange, to straw colored or brick red-brown.
- 6a. Petals free, flower stalks emerge bent over.
- 7a. Flower stalks with only one flower, white.
Monotropa uniflora
- 7b. Many flowers on a stalk, pink to orange to straw colored.
Monotropa hypopithys
- 6b. Petals united, stalk emerging erect, usually brick red-brown but may be yellow, tall (may reach 1 m).
Pterospora andromedea



Hemitomes congestum

Hypopitys monotropa



Monotropa uniflora

This key is presented at the request of members of the Portland Chapter. I had intended it to accompany a write up of "Mysteries of the Monotropoideae", but that won't be done for some time. Unfortunately, readers are left to themselves to figure out what a Monotropoideae is and if a plant of interest might be one. Generally, a monotrope is a member of the heath family (Ericaceae) without chlorophyll (unless you have an achlorophyllous *Pyrola*). If the plant in question has flowers with bi-lateral symmetry (rather than radial symmetry), it is not a monotrope. Other commonly encountered achlorophyllous plants are in the orchid (Orchidaceae), and broomrape (Orobanchaceae) families.

Credit should be given to Dr. Gary Wallace of the Los Angeles County Museum of Natural History for his monograph of the Monotropoideae. His definitive work was published in the *Wassman Journal of Biology*, vol. 33, 1975. I welcome comments to improve the usefulness of the key. I know how plants often refuse to display the proper morphology when confronted with a key.

Thanks and good luck!,
Dan Luoma

(Illustrations on this page are from Hitchcock et al., *Flora of the Pacific Northwest*; used with permission from the publisher.)

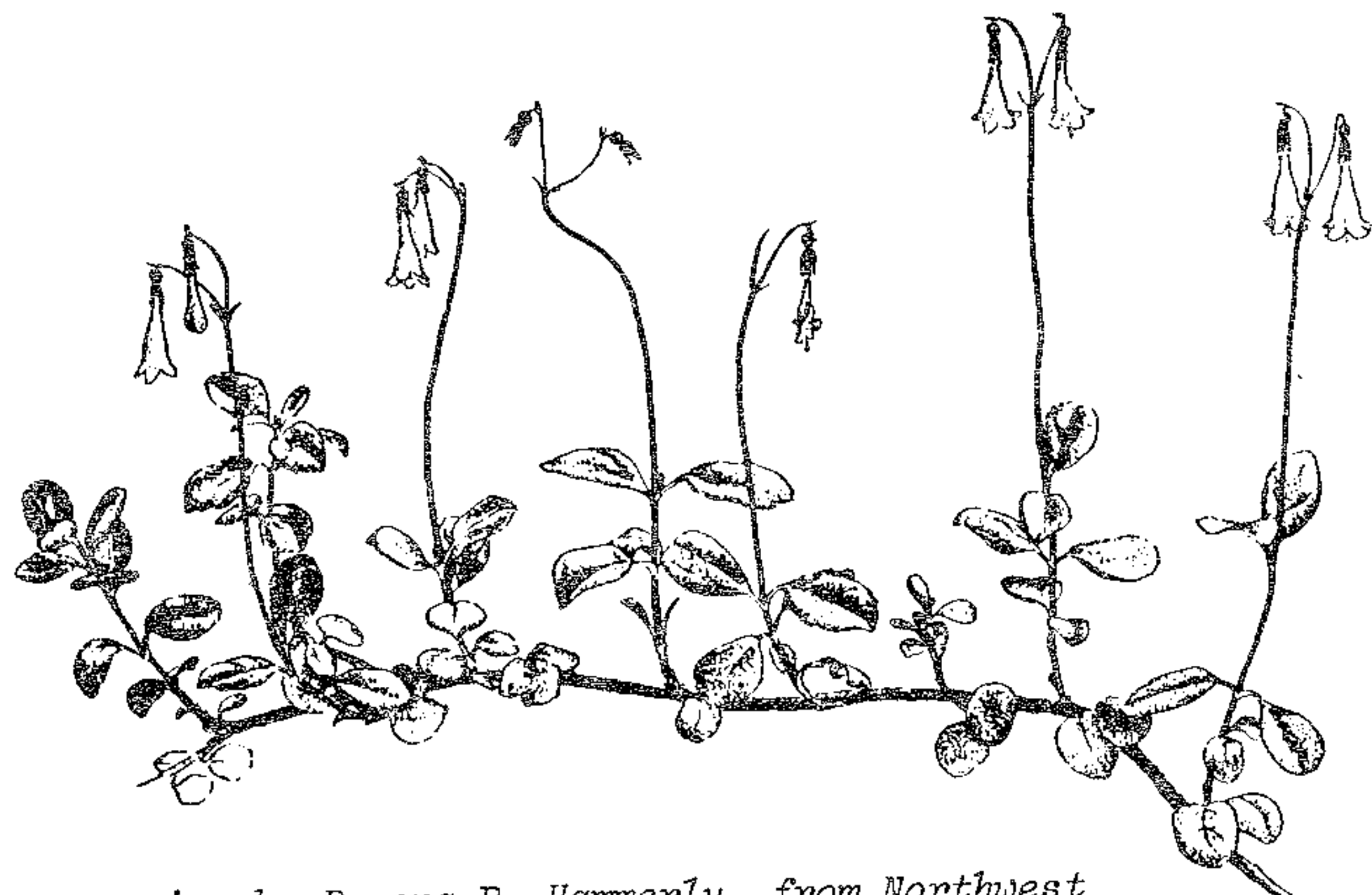
While collecting plant specimens for the Willamette Valley Chapter's wildflower show in early May, I noticed two "listed" species that were just coming into bloom: Sidalcea campestris, the Meadow sidalcea, and Lathyrus holochlorus, the thin-leaved peavine. Both of these are most commonly seen as roadside fence-row plants these days, in remnants of Willamette Valley prairie plant communities.

In my experience, the Lathyrus is usually in shrub thickets, nestled in among Poison oak (Rhus diversiloba), snowberry (Symphoricarpos alba), and wild rose (Rosa nutkana). Although often occurring in the same general vicinity, the Sidalcea is generally found in more open, grassy places. In fact, I have seen it in areas completely burned the previous summer by field fires that consumed roadside and ditch vegetation in addition to their prescribed area.

Sidalcea campestris is the palest of northwest Oregon sidalceas -- pale pink to almost white. It bears its flowers in spike-like racemes on stalks two to six feet tall. Lathyrus holochlorus flowers are pale orange to creamy yellow, with tinges of green. It is the only legume of that color blooming in May in northwest Oregon. (Vicia gigantea is also orange-flowered but blooms later in the year.) The plants are one to three feet tall, but are often entangled in or supported by other plants.

Because of their size, habitat, and distinctive coloring, Sidalcea campestris and Lathyrus holochlorus can often be seen and tentatively identified from a car at normal driving speeds. An even better way to enjoy looking for these plants is by bicycle. As you read this in early June, it is probably not too late to find them in bloom along the rural roads of Marion, Linn, Benton, and Polk counties at low elevation. Plan your ride in the Scio and Crabtree area and you can search for these plants while enjoying some flat, lightly-travelled roads and admiring some of Oregon's few remaining covered bridges as well.

— Pat Rogers-Rochna
Willamette Valley Chapter



Drawing by Ramona P. Hammerly, from Northwest Trees, by Stephen F. Arno & Ramona P. Hammerly, The Mountaineers Books, Seattle.

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BULLETIN

Editor Jan Dobak
 2584 Savier St., Portland, OR 97210; 248-9242

The NPSO Bulletin is published monthly. Copy is due by the 10th of the month & should be sent to the editor. News, articles, photos, drawings, & non-copyrighted materials are welcome.

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DEADLINE: 10th of each month

FORMAT: Copy should be typed in 4 1/4 inch wide columns, of any length. Author's name & chapter affiliation (or other organization) are typed at the end of the article. There is no standard paragraph treatment; one of these is suggested:

* for long articles, double space between paragraphs, but do not indent the first word of the paragraph

* for short articles or short paragraphs, when double spacing looks odd, indent the first word of the paragraph instead
 Type your own headline, centered, all caps. In case of special formats, e.g. plant keys, you are free to choose the layout.

CREDITS: For each submission, provide

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SCIENTIFIC NAMES should follow Hitchcock & Cronquist's Flora of the Pacific Northwest where possible. Use of both scientific & common names is encouraged. Genus & species names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustrations will not be returned unless it is requested.

The Bulletin is published as a service to NPSO members & the public. Your suggestions & comments are always welcome.

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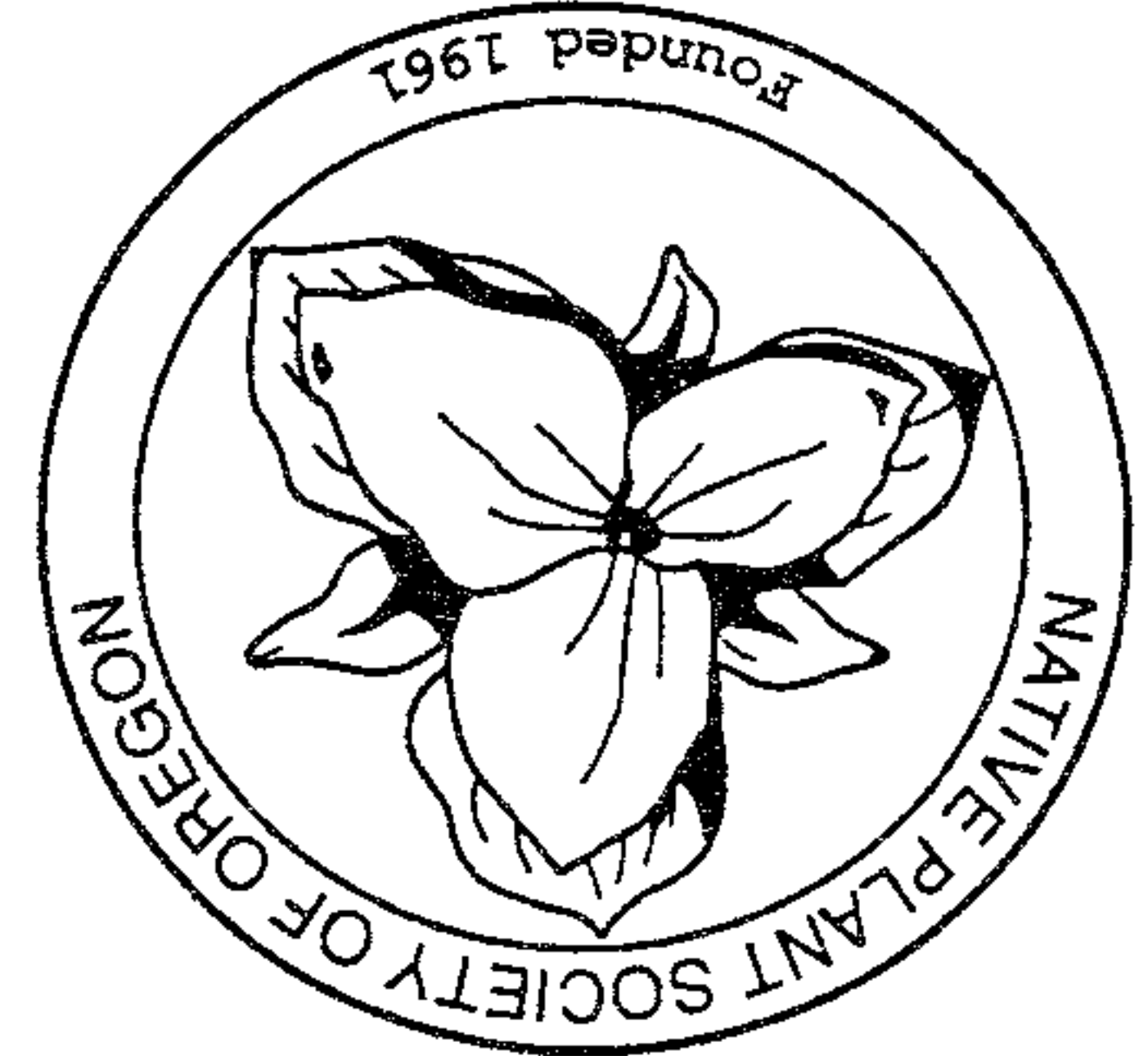
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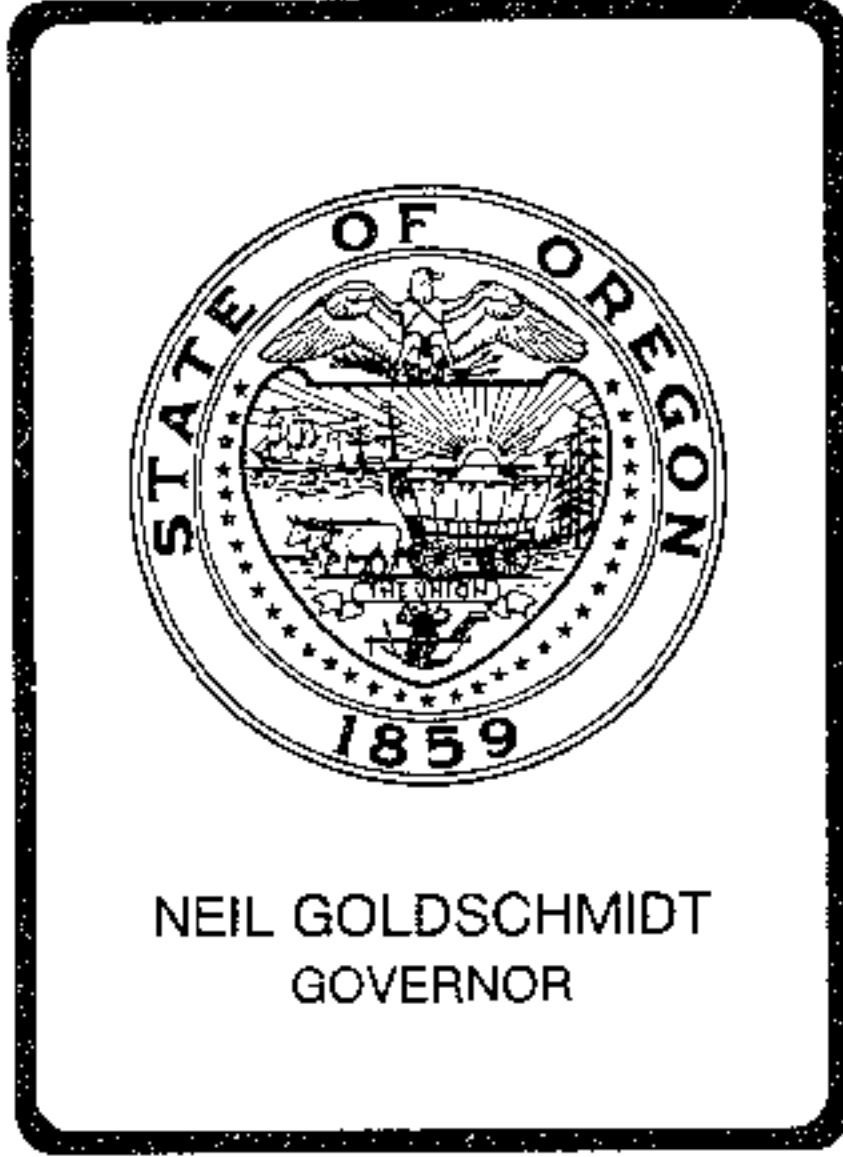
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Oregon Department of Agriculture

The Oregon Endangered Plant Species Program: An Update to
the Members of NPSO

Bob Meinke
Program Coordinator

The State of Oregon's Endangered Plant Species Program was initiated on the first of February. As most members of NPSO probably know, this program was created in direct response to the 1987 passage of Senate Bill 533, now popularly known as the Oregon Endangered Species Act. The Department of Agriculture has been charged by the Oregon Legislature to devise a state list of Threatened and Endangered plant species, and to ultimately develop conservation and recovery plans for any listed taxa. As you might suspect, however, the scope of my job goes far beyond the mere compilation of a list of qualified species, as we are in fact designing an entirely new government program. Fortunately, Oregon has a strong botanical community, both at the professional and amateur levels, and I am confident that this base will be of tremendous value to our development. Recently, I spoke to a committee of senators and representatives in Salem about the progress my office has made to date, and the general direction we are taking with respect to policy and research. I thought it would be appropriate to share the substance of these discussions with you.

First and foremost, the law states that we will complete a preliminary review of appropriate candidate species by the first of July, and I am pleased to report we are on schedule. Candidates are those species eligible for listing under the provisions of Senate Bill 533. At the risk of being repetitive for some I should remind you that, by law, we cannot list a species unless it is threatened or endangered throughout all of its geographic range. You may recognize this constraint as being the same as that imposed by the Federal Endangered Species Act. The plants we are reviewing, then, are all Federal Candidate species (i.e., roughly those found on List 1 of the Oregon Natural Heritage Data Base list of 1987) plus a selected few others, including recently discovered species as well as some with outstanding taxonomic questions. This initial total comes to approximately 170-180 taxa, although we have the authority to consider any qualified additions over time, as we see fit. Our current review procedure has consisted largely of looking over past reports and literature, visiting university herbaria, and consulting with numerous recognized experts. I am also making field inspections when

appropriate, and have a number of survey trips planned for the summer. The actual listing process will begin sometime after the current field season, and will eventually involve the writing and publication of special Oregon Administrative Rules as well as public hearings.

Due to the savings afforded when our program began seven months into the current fiscal biennium, I found myself with some unexpected money that I have elected to use towards field projects this summer. Since spring was fast approaching even as I first started work, I needed to rapidly select a staff for the upcoming months as well as come up with desirable projects. Fortunately, my association with Oregon State University allowed me to secure, on short notice, the services of some excellent botanists. In the future, I hope to cultivate research relationships with other colleges and universities as well. This year's staff all have close ties with NPSO. Nancy Fredricks, an NPSO board member, started her Department of Agriculture assignments on April 4th. She will be conducting reproductive and demographic studies of Calochortus howellii and Calochortus umpquaensis in southwest Oregon. She may also be involved with a proposed taxonomic investigation of Lupinus aridis ssp. ashlandensis. Two additional employees will be brought on in early June. Tom Kaye, president of the Corvallis Chapter, will help with population biology research already in progress on the grazing-impacted Haplopappus radiatus (Baker County), and may also work in the Wallowa Mountains in July and August on a local alpine species (Lomatium greenmanii) threatened by recreational activities. The third researcher, Ed Alverson, is presently NPSO's Conservation Chair. Ed will be involved in a reproductive and population genetics analysis of the Aldrich Mountains endemic Luina serpentina, and is expected to spend considerable time in Grant County this summer before heading up to Washington State University to work with colleagues there on the laboratory part of the project.

The information gained from these studies will be used in developing conservation programs for these particular plants should they become listed by the state as Threatened or Endangered. We also hope these projects can be used as models for future research on Oregon species of concern. Moreover, these types of studies underscore the commitment the state now has to a strong rare plant research program -- we will continue to be involved with general field inventory, to enhance our knowledge of where target species exist, but we are also very interested in what makes them rare and how best to manage for them. Answering biological and ecological questions is important if we are to succeed. Towards this end, we anticipate working closely with the U.S. Forest Service and the Bureau of Land Management, and have arranged to continue Oregon's relationship with the U.S. Fish and Wildlife Service through provisions of the federal Endangered Species Act. We plan on receiving financial assistance from these agencies in the future, and I

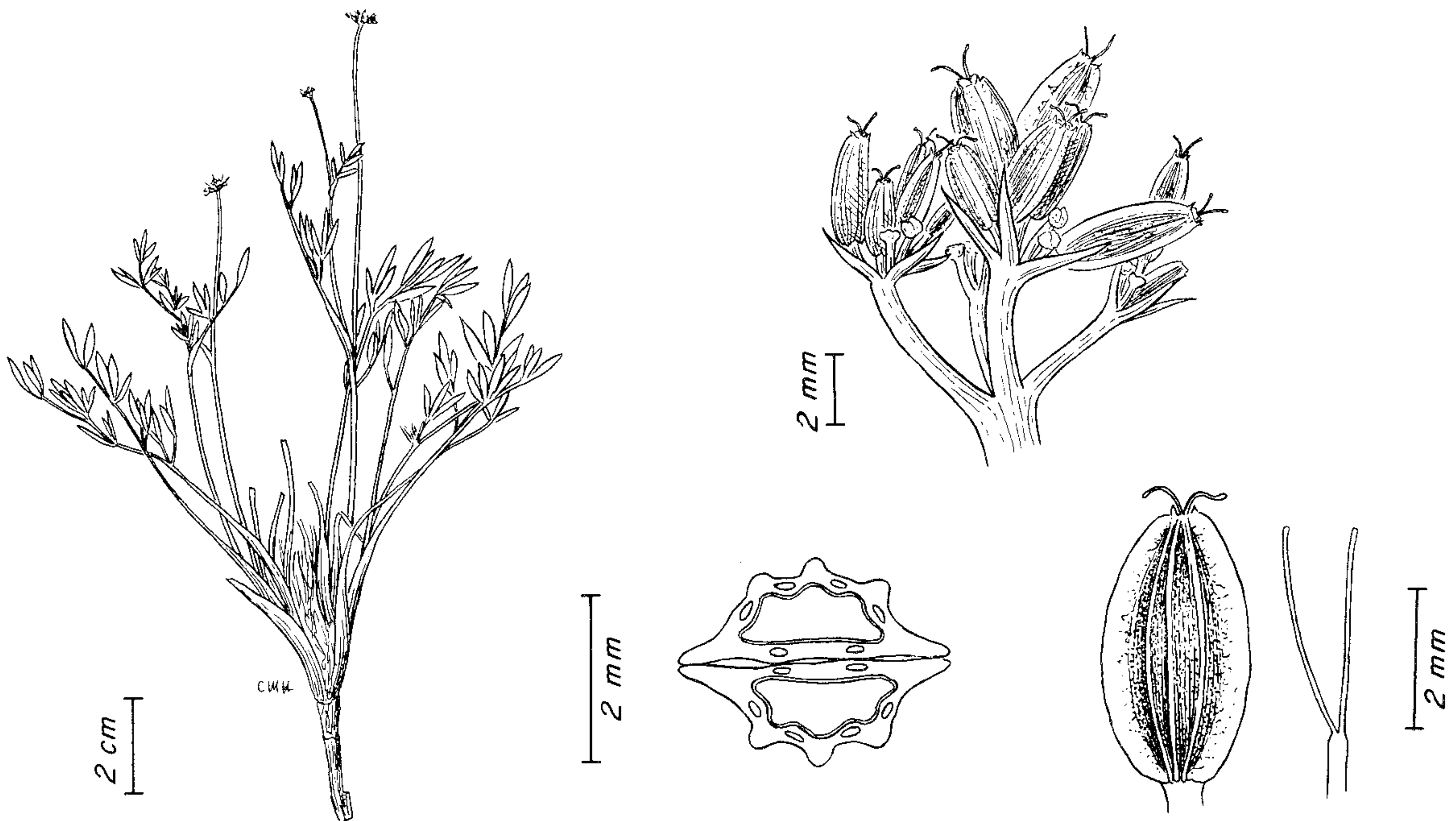
am currently working out details of state-federal projects for 1989. Some federally sponsored cooperative work has already been tentatively approved for 1988, and may include studies of Eriogonum chrysops near Steens Mountain, Lilium occidentale on the southern coast, and Astragalus mulfordiae along the Owyhee River in Malheur County.

Because of the technical orientation of our program, the Department of Agriculture has asked several prominent members of the academic botanical community in Oregon to serve on an advisory committee, to provide me with specific advice on research and the criteria for prioritizing candidates for listing. We have invited faculty members having long-standing interests in endangered species coupled with strong, complimentary technical backgrounds. They are: Dr. Kenton Chambers and Dr. Robert Frenkel (both of Oregon State University); Dr. Susan Kephart (Willamette University); Dr. David Wagner (University of Oregon); and Dr. Rhoda Love (Lane Community College and past president of NPSO). This is not to imply we will not also solicit advice from other well-informed individuals from throughout the state. However, after considerable thought, it was decided that a small, workable group whose members resided within reasonably close proximity would best serve our need for a formal committee. We also intend to annually sponsor a general workshop, with the first possibly taking place this fall, at which information and recommendations can be exchanged between any and all groups or individuals with an interest in endangered plants. The details for this have yet to be worked out, but will presumably follow the style of past conferences with similar goals.

One of the most challenging aspects of my work has been to establish effective working relationships with the many groups and programs having similar interests to ours. Having already alluded to federal agencies, I should additionally point out that the law specifically states that my office will develop contacts with other state endangered species programs in the region. In early May, I convened a workshop at the University of Idaho for the purpose of meeting with other Pacific Northwest endangered plant species program managers. Although a small group, we nonetheless made considerable progress towards strengthening regional ties, and plan to exchange ideas and information in the form of a newsletter and continue meeting in the future. It may be of interest that several of the attendees from other states received some or much of their botanical education or early work experience in Oregon (i.e., Steve Shelly, Angie Evenden, John Gamon, etc.). Within Oregon, contacts have been made with Julie Kierstead of the Berry Botanic Garden and the staff of the Oregon Natural Heritage Program concerning our mutual conservation goals. A potential outcome of this affiliation may be an update of the U.S. Fish and Wildlife Service endangered plant species manual (the so-called "Green Book") that I initially prepared in 1982, and which is now sorely in need of improvement and

updating. The Department of Agriculture is also starting a technical publication series, to consist of articles on Oregon's threatened and endangered plants submitted to scientific journals and periodicals.

As we begin the first year of Oregon's endangered plant species program, a number of you may have questions concerning your possible role, or the role of NPSO, in assisting our efforts. We are strongly committed to a program supported by citizen involvement, and I personally recognize the considerable contribution that has been made, and can continue to be made, by the NPSO constituency. There are a number of potential avenues for state-NPSO interaction in the future, and I hope to discuss some of these with the NPSO board of directors (and any other interested parties) during the upcoming annual meeting at Silver Falls State Park. I will also be attending the endangered species symposium, to be held at OSU June 19-20 in conjunction with the American Association for the Advancement of Science meeting. In the meantime, my work number is 1-378-6458, and my mailing address is Endangered Species Office, Plant Division, Department of Agriculture, 635 Capitol Street NE, Salem 97310-0110. If you have any questions, comments, or suggestions concerning Oregon's Endangered Species Program, please don't hesitate to contact me.



Lomatium greenmanii