

Bulletin of the Native Plant Society of Oregon

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

VOLUME 28

NUMBER 9

SEPTEMBER 1995

ISSN 0884-599

State News

Sept. 9, Sat. **State Board Meeting:** 10 A.M. - 3 P.M. in Mosier, at the Mosier School.

Chapter News

Blue Mountain

Meeting: No meetings until October.

Corvallis

Meeting: No meetings until October.

Emerald

Officers: New officers are: Bruce Newhouse, president; Kathy Pendergrass, vice president; Phil Warner, treasurer; Nancy Wogen, secretary; Cheshire Mayrsohn, t & e chair; Rhoda Love & Dave Predeek, conservation committee co-chairs.

Sept. 25, 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 Segotta, botanist for the Oregon Dunes Recreation Area, will speak on "The effects of exotic plants on Oregon dunes vegetation." For more information, call Kathy Pendergrass, 683-3889.

Sept. 30, Sat.

Work Party: 9 A.M. to noon. Ethen Perkins will lead a weed pull to help restore the native flora at Morse Ranch Park. Take gloves, your poison oak shield, and tools that will dig up grass and sod. Meet at Morse Ranch parking lot. Call Ethen, 345-3944, if you have questions.

Oct. 23, Mon.

Meeting: 7 P.M. at Morse Ranch Park. For directions, see above. Paul Hammond, research entomologist from Oregon State University will speak on "Butterflies in native prairies." For more information, call Kathy Pendergrass, 683-3889.

High Desert

- Sept. 26, Tues. **Meeting:** Our first fall meeting will be a potluck at Stu Garrett's, 21663 Paloma Dr., Bend. We will plan for our winter meetings. Please plan to arrive at 6:30 P.M. Call Stu, 389-6981 evenings, if you need directions.
- Oct. 24, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. This will be our annual members' slide show. Please bring 12 slides you wish to share with us.

Mid-Columbia

- Sept. 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Peter Zika, of the OSU herbarium, will present the flowers of the Baja Peninsula.
- Oct. 4, Wed. **Meeting:** 7:30 P.M. Mosier School. Mo and Larry Miles of Milestone Services will tell of their experiences in starting a native plant nursery, and their successes and failures in trying to grow our native plants.

North Coast

- Sept. 26, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. We will plan the winter meetings and future programs and projects for our chapter. Your attendance will be appreciated.

Portland

- Sept. 12, Tues. **Meeting:** 7 P.M., First Methodist Church, 1838 SW Jefferson St., Portland. Bob Misley, Professor of Botany, Clackamas Community College, will discuss the natural history of the Steens Mountains. The meeting room will open at 6:30 for socializing.
- Sept. 16, Sat. **Field Trip:** Mt. Hood. Visit collection sites and examine the issues surrounding the management of and use of special forest products (from Matsutaki mushrooms to blueberries) with John Davis, Forest Service botanist, in an elevational traverse from Old Maid Flat, a low elevation mud flow, to alpine meadows at Timberline. We'll drive between sites, with short walks at each one. Meet, 8 A.M., ODOT lot, 60th & NE Glisan. Second meeting place, 9 A.M., Zig Zag Ranger Station. Contact Mike McKeag at 642-3965.
- Sept. 24, Sun. **Field Trip:** Columbia River shore. Thirty or more species of late bloomers emerge along the river as the water level drops in the fall. Russ Jolley will lead us to sites at Woodward and Lauton Creeks on the Washington side. Walking distance 1-2 mi. along river bank and mud flats. Driving: 70 mi. R.T. Meet, 9 A.M., ODOT lot, 60th & NE Glisan. Contact Dee White, 227-2581.

Siskiyou

- Sept. 21, Thurs. **Meeting:** Welcome back potluck/meeting. Meet at the picnic tables across the creek from the upper duck pond at Lithia Park, Ashland, for a potluck at 6 P.M. After the potluck we will go to room 171, Science Building, SOSC, for the meeting at 7:30. Take five of your favorite slides to share at the meeting, or just come and enjoy the slides of others.

South Coast

Call Bruce Rittenhouse, 756-0100 days, for information.

Umpqua Valley

Sept. 14, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse, Roseburg. Bring and share your experiences with plants -- be it slides, specimens or stories. Help plan the fall/winter schedule.

Sept. 23, Sat. **Field Trip:** Hike the Hemlock Creek Trail that gradually descends 2 miles from Hemlock Lake, at 5,000 ft. elev., to Lake-in-the-woods. Look for *Vaccinium membranaceum* and other seasonal delights. Meet at BLM parking lot, 777 Garden Valley Blvd., Roseburg, for 8 A.M. departure. Call Allan Romeril, 440-2407, for more information.

Willamette Valley

Sept. 18, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. We resume monthly meetings. This month's presentation will be by Julie Knurovski-Thiel on the Table Rock Wilderness Study Project. Also bring ideas for next season's officers.

Wm. Cusick

Meeting: First regular fall meeting in October.

Planning Meeting: The Blue Mountain and William Cusick chapters are excited to announce that we will host the 1996 NPSO Annual Meeting in our neighborhood in May or June. Stay tuned for details! We will have our first organizational meeting in September. Call Barbara Russell, 963-7495, if you are interested in participating. We need all kinds of talents.

Field Trip: Sedges and willows in early September. Call Barbara Russell, 963-7495, for information on place, date and time.

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.

Ancient Forest Picnic

The Oregon Natural Resources Council hosts its 5th annual Ancient Forest Picnic at Oxbow Park, on the banks of the Sandy River, Sunday, September 17, 11 A.M. to 6 P.M. Swimming, guided hikes, through ancient forests, volleyball, music, a raffle, and all you can eat of corn on the cob, garden burgers, salads and watermelon for \$10 adults, \$5 for children. The proceeds will benefit ONRC's Ancient Forest Campaign. For information or directions call ONRC at 223-9007, extension 209.

Guidelines for Contributors to the Bulletin

The NPSO Bulletin is published monthly as a service to members and the public. All kinds of contributions are welcome. **Copy is due by the 10th of the month.**

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

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

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.

REGISTRATION FORM

CONSERVATION AND MANAGEMENT OF OREGON'S NATIVE FLORA, NOVEMBER 15 - 17, 1995

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

| Registration Fees | Amount |
|--|--------|
| Registration (NPSO members \$50, non-members \$60) | _____ |
| Special Student Rate (\$30) | _____ |

Banquet Specify: meat _____ or vegetarian _____ (\$13) _____

Donation \$25 \$50 \$75 \$100 Other _____

TOTAL _____

Please make checks payable to Native Plant Society of Oregon and send to : NPSO Symposium, c/o Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. For more information, please contact Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR, 97459-2000. Phone: (503) 756-0100 (days). Fax: (503) 756-9303.

We Welcome New Members Joining From 4/7/95 to 8/6/95

At Large

Russell Link
Don Mansfield

Blue Mountain

Lee M. Duncan
Joan Soderstrom

Corvallis

Francisco J. Camacho
Jack and Karen Hayden
Ruth Vinal
Randall Wildman

Emerald

Mabel Armstrong
Andrea Cioffi
Pat French
Roger Gossler
Jim Landon
Deborah Lares
Kristen Lohse
Caroline Manewal
Barbro McCree
Cheryl Schultz
Diane TenEyck

High Desert

Joel M. Depper
Dan Huber, Jr.
Leah M. King
Mitch and Thesea Rogers
Carrie Stilwell
Roger and Kathy Wolcott

Mid-Columbia

Sarah Crump
Patty Neuwirth
Susan Nugent

North Coast

Margaret Johnson
Beth Kandoll
Heidi Melton
Mary Lou Tierney

Portland

Ken Barker
Brenda Clark
Duane and Dana Diller
Tom Foster
Dianne Froode
Beth Gibans
Susan Imbrie
Wes Jarrell
Beverly Klock
Kirstin Labudda
Kathryn Littlefield
Elisabeth Magnus
Susan Nelson
Patt Opdyke
Lona Pierce
Jim Rack
Don Shula
Trygve Steen
Beth Stout
Arlene Tugel
Sara and Timothy Wagner
Sam K. White
Joseph E. Yuska
Nancy Zapotocki

Siskiyou

Jean Danielson
Melissa Dixon
Katy Marshall
Donna Pioli and Michael Kaplenk
Wes L. Reynolds

Willamette Valley

Michael J. Babbitt
Roy Blomgren
Char and Robert Blumenstein
Glenda Cheshire
David Greysmith and Lorraine Milan
Esther and Walton James
Lenore L. Kipp
Bob and Judy Oliver
John Savage
Carolyn Weber
Pamela Wood

William Cusick

Peggy and Bob Brown
Sue and Doug Dilts
Ruth Medhaug

Reviewers Wanted

The Washington Department of Fish and Wildlife is looking for people to review sections of a book titled **"Landscaping for Wildlife in the Pacific Northwest: a manual for urban and rural properties."** The book is for anyone interested in planning, designing and maintaining wildlife habitat in a landscape setting. It uses common habitat models to orient the reader to a plant community and suggests specific plants to use for particular needs. The focus is on small (one to twenty acre) private properties but includes information for public open-space managers and suburban and urban yards. Readers who will find the book useful include professional wildlife managers, farmers, woodlot owners, landscape architects, gardeners and nursery managers. The geographic setting includes Oregon, Washington and southern British Columbia. The book will be from 250 to 300 pages in length, contain color plates and line drawings, and include much information on native plant and wildlife relationships.

For more information, or to obtain a table of contents from which to choose sections to review, write to:

Russell Link
WA Dept. of Fish and Wildlife
16018 Mill Creek Blvd.
Mill Creek, WA 98012

NEW BULLETIN MAILING COMMITTEE NEEDED

Volunteers are needed to form a new Bulletin Mailing Committee. John and Elizabeth King have announced that they will turn this task over to others, after two years service to the Society.

This job has been done by one person (or a couple) with only occasional, emergency relief by substitutes. In the future, this Committee should, ideally, be composed of at least three persons (or couples) so no one needs to do the job more than once in three months. This would allow scheduling flexibility.

The monthly task requires picking up printed Bulletins from the printer in southeast Portland, attaching address labels and delivering filled mailbags to the Portland Post Office (Hoyt St. station). This occurs about the third week of the month; a commitment to timeliness is essential. If interested, please call Dave Dobak at 248-9242.

Ivy Pulling Supervisors Needed

If we want healthy forests in the future, we have to control the English ivy now, according to Fred Nilson, Portland Parks Arboriculturist. Ivy is the most ominous threat to our urban woodlands simply because it thrives in the same shady situation that favors the development of conifer forests. Even our shade tolerant conifers cannot seed in a bed of ivy, disrupting the natural succession of our forests. It also chokes out some of our favorite native plants, displacing the wildlife species which depend upon them.

Portland Chapter member, Diane Bauer, has taken the initiative to start a "No Ivy" campaign for Mary S. Young State Park in West Linn. This park has wonderful potential to return to a native forest understory once the ivy is kept in check. Diane has recruited help from West Linn Parks and State Parks to start a volunteer effort. Now she needs help from us. She is asking for NPSO volunteers to work largely as supervisors for scouts and other volunteers. We'd be asked to see that they don't take anything native, don't get into poison oak (there's not much), follow safety procedures, etc. Supervisors are needed for both weekend and week day afternoons this fall and winter. **Call Diane at 257-1783 or Steve Mills, with the city of West Linn, at 557-4700, if you can help out.** (West Linn Parks, which will be contracting with State Parks to take over the management of Mary S. Young, is considering re-landscaping the parking area with natives. If you talk to Steve, be sure to express your support for this idea.)

Mary Vogel
Portland Chapter

FRIENDS OF FOREST PARK HOST TERENCE O'DONNELL

Terence O'Donnell, author of "That Balance So Rare; the story of Oregon," will speak at the Friends of Forest Park Annual Meeting on Saturday, October 21, 10 A.M., Audubon Society, 5151 NW Cornell, Portland. The program, "The Face of a Place," will explore how the landscape of Oregon, like the a person's face, has been changed by its history. The program has been made possible by the Oregon Council for the Humanities, an affiliate of the National Endowment for the Humanities. It is free and open to the public. Contact Lee Kellogg, 223-5449, for information.

Sidalcea hirtipes: Is a Native Plant Gaining a Roothold After Biological Control of a Weed ?

Since 1980 I have periodically visited an abandoned pasture at Three Rock Road in the Cascade Head Scenic Research Area north of Lincoln City. At my first visit the vegetation was nearly a monoculture of the introduced weed *Senecio jacobaea* (tansy ragwort). This site is part of an intensive biological control research project on *Senecio jacobaea* by Peter McEvoy, Entomology Department, Oregon State University. After a successful biological control of ragwort in 1983, perennial grasses became the dominant plant species and *S. hirtipes* began to increase and spread in the eastern corner of the field. Observations that this population of *S. hirtipes* may be increasing after a decline in tansy ragwort prompted this research during the field season of 1994.

The objective of this research was to assess populations of *S. hirtipes* in the Siuslaw National Forest. The sites studied were: Three Rocks Road, Hart's Cove and Road's End. A list of the plant species in the background vegetation at the sites, estimate of *S. hirtipes* densities at each site, and recommendations for management and future research were submitted in report form to the NPSO Grants Committee.

At the Three Rocks Road site, the population appears to be one large clone. The presence of elk was evident by scats, chewed flowering stalks and trampling of the general area. A total of 44 chewed flowering stalks were observed in 1994. Over the years I have noted that *S. hirtipes* rarely sets seed, the flowering stalks being eaten and trampled by elk before seeds can mature. *S. hirtipes* appears to be increasing since the decline of *Senecio jacobaea*, either as a result of the change in the composition of the vegetation at the site after a decline of tansy ragwort, favorable germination of seeds or of spreading rhizomes, or changing conditions.

Hart's Cove is in the Neskowin Crest Research Natural Area, which was established in 1941 as an example of a Sitka spruce (*Picea sitchensis*)-western hemlock (*Tsuga heterophylla*) forest growing near the ocean. At the end of the Hart's Cove trail is a coastal bluff overlooking the ocean with large patches of *S. hirtipes*, in full bloom in mid-July. The population of *S. hirtipes* at this site appeared to be in healthy condition, with flowering stalks,

seed heads and dispersed seeds. A conservative estimate at this site was over 1,000 flowering stalks in scattered patches. The condition of the site was good, except where a number of campers had trampled areas for tent sites.

Road's End is in the Mt. Hebo Ranger District. After a short hike from a parking lot at Road's End, one comes on beautiful meadow areas on a coastal bluff. The *S. hirtipes* was still in full bloom at the end of July, and I found the plants to be in flower, in seed, and with seed already dispersed. The largest populations of *Sidalcea* were found on the lower meadows of the slope on the coastal bluff. The estimated number of *Sidalcea* was over 1,000 at this site also.

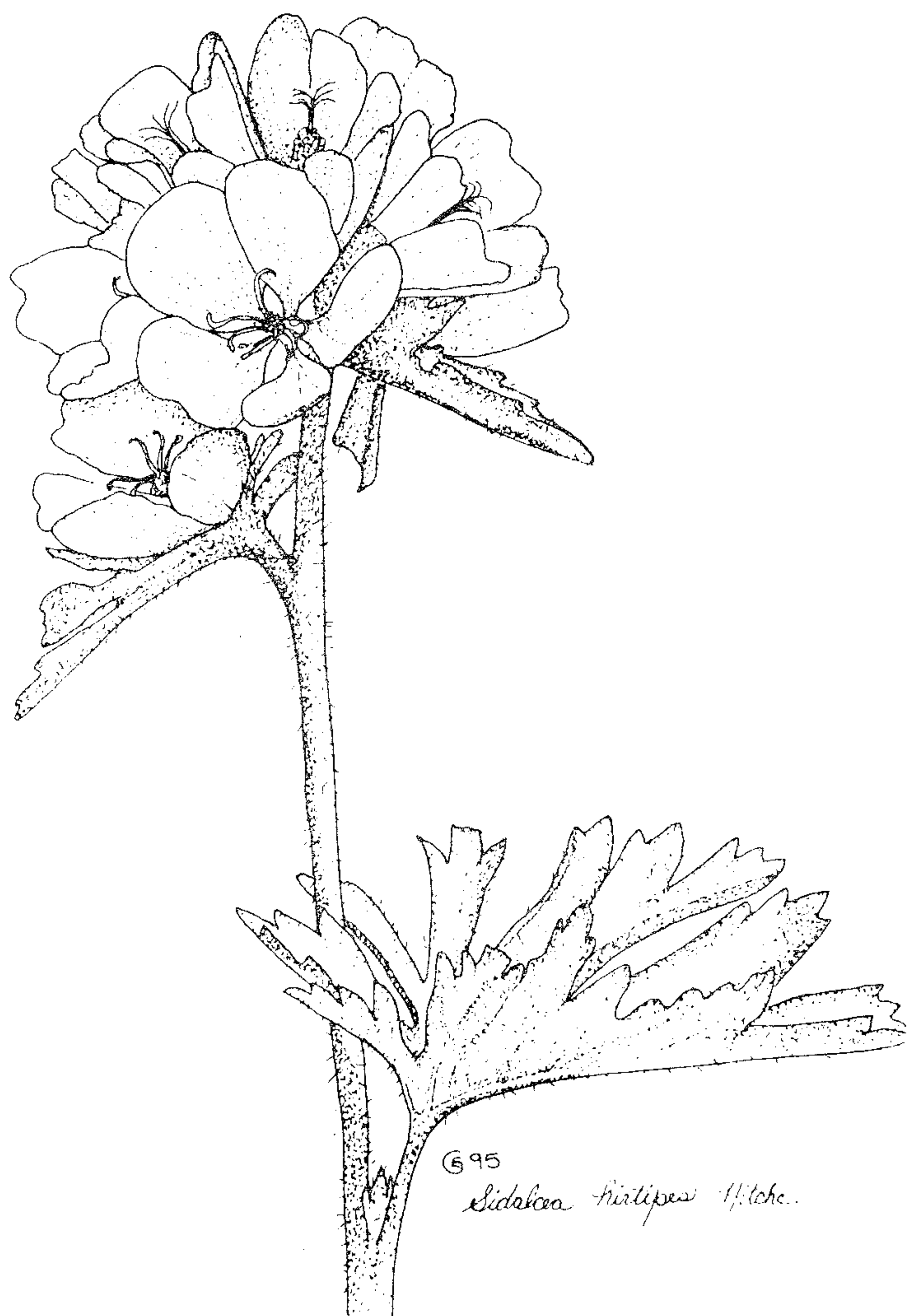
S. hirtipes is a gynodioecious, perennial plant. In this type of breeding system plants have both perfect flowers (stamens and pistils) and pistillate flowers (only female flower). Sometimes morphological differences can be seen between these two types of individuals. *S. hirtipes* is a rhizomatous plant that has patchy distribution with vegetatively spreading clones which makes it difficult to distinguish individual plants. Any assessment of population dynamics is incomplete because individual *S. hirtipes* plants are difficult to distinguish in a population. Currently Dr. Aaron Liston (OSU) is working with his students on isozyme analysis to distinguish clonal asexual plants in populations of *S. nelsoniana* and *S. hirtipes*. This genetic information will help population studies aiming to determine clonal populations and genetic variability in populations of rare plants.

In 1994 the populations of *S. hirtipes* in the state of Washington were declining. *S. hirtipes* is found only in Oregon and Washington. As more people come into Oregon, our coastal property is being developed rapidly. Many of the old recorded sites may not exist any more. This plant is in danger of being isolated to a few undeveloped areas on the coast and to currently protected federal or state lands. At the 1994 Threatened and Endangered Plant Species Conference, it was recommended that *S. hirtipes* be upgraded to a federal category C2 on the USFWS list. This category is for taxa which need more information for possible recommendation for listing. Based on these current population trends of *S. hirtipes* we need to make sure that increased human use of the protected coastal bluffs does not adversely affect their populations. A hike to Hart's Cove, to Road's End or to the Cascade Headland in the

middle of the summer will reward the hiker with a spectacular view of large populations of *S. hirtipes* in bloom.

(This study was made possible by a Leighton Ho Field Botany Award from the NPSO Research Grants Committee for the field season of 1994)

Esther Gruber McEvoy
Corvallis Chapter



Drawing by Esther Gruber McEvoy

“Traveling Tansy”

“Traveling tansy” is a traveling fool. He prefers a long trip over a short one any day. Traveling free is his preference, and when he arrives you can count on a long stay!

Traveling tansy, more formally known as tansy ragwort, *Senecio jacobaea* L., is a poisonous Eurasian weed that often travels with unintentional assistance from us human folks. On its own merits it would be limited to moving down a creek or hopping a neighbor's fence. But with our assistance tansy ragwort is able to go camping in the Blue Mountains, and elk hunting in the Willows.

Tansy ragwort is widespread in western Oregon in pastures and occasionally in hay fields. It is often transported in contaminated straw and hay. (Viable seed can also be transported in the digestive systems of horses and pack animals.) These sources have for many years transported tansy ragwort to eastern Oregon. County, state and other land managers on the east side have spent countless hours in efforts to locate and control the resulting new infestations.

Western Oregon, largely through the efforts of the Oregon Department of Agriculture's Weed Control program, has developed a highly successful biological control program on tansy ragwort. The introduced natural predators, a moth, a flea beetle and a seedhead fly, feed exclusively on the exotic plant. These agents have greatly reduced the impact of tansy ragwort in that area. Yet, 250 miles away in eastern Oregon harsh winters have made the agents impossible to establish. This makes it even more critical to stop the continuing re-introduction of tansy ragwort.

Taking preventive actions to stop the transportation of invasive plants along our highways, waterways, railways and recreational trails is a first line of defense against aggressive exotic plant species. We can do this by not driving in weed-infested areas, or by checking the undercarriage of our vehicles, looking out for weedy hitchhikers. One can transport and use only weed-free hay. Cooperative efforts should be established with local agencies and land managers to assist in the fight.

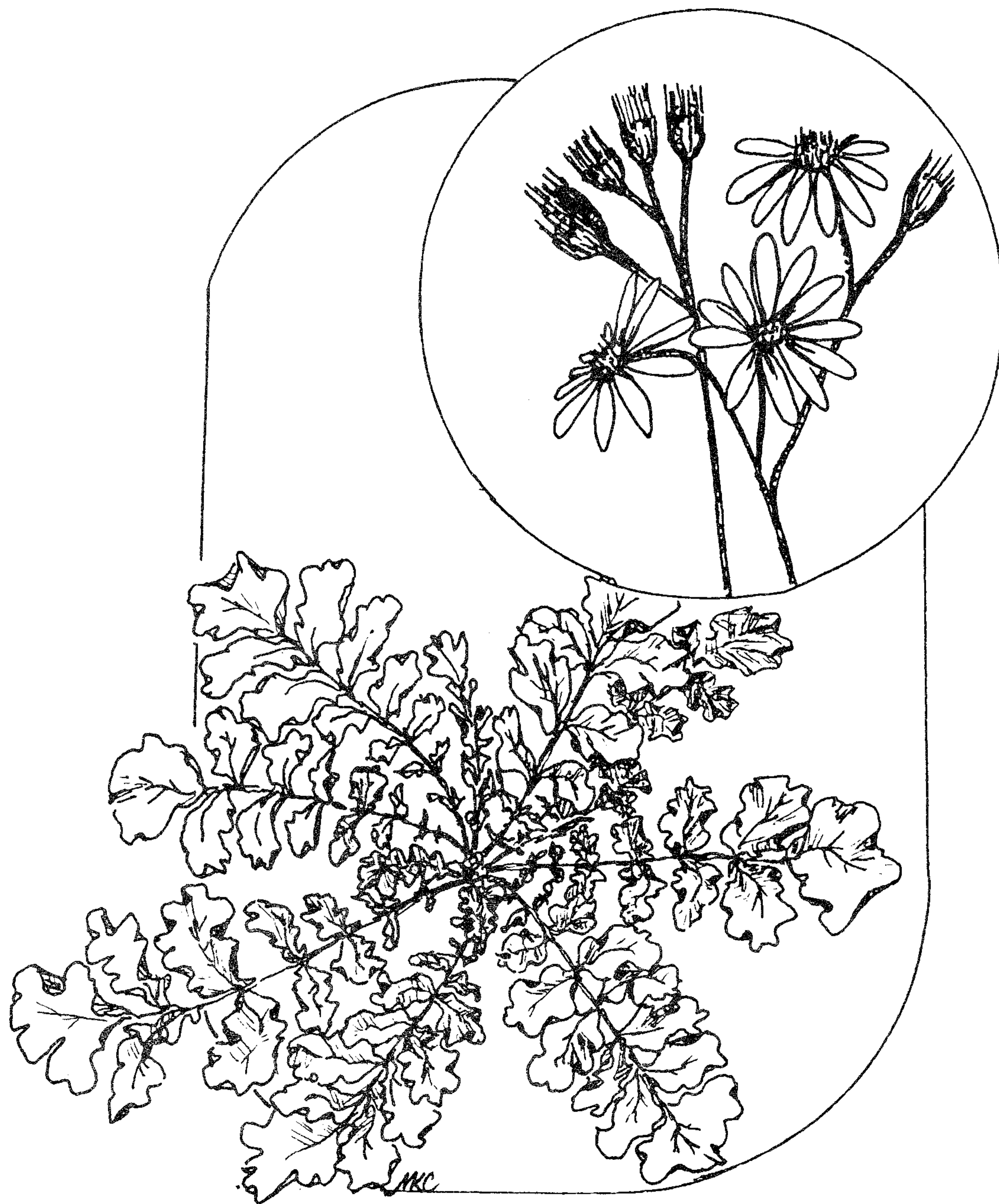
Finally, if you see traveling tansy out in eastern Oregon in your fall travels, be sure and contact the local county weed control program or the Oregon Department of Agriculture, telling them of

the location. Any help with new locations would be appreciated!

Mary K. Corp
PNW Exotic Pest Plant Council

*[This is the second in a series
on the exotic pest plants of Oregon]*

Drawing by Mary K. Corp



Are Bluebells Blue?

The correct answer is "partly," since there is some red in the color of bluebells. In fact, most, if not all "blue" flowers reflect some red when illuminated with white light.

Each of the wildflowers listed below was matched with its own color on a Pantone color chart. In the upper left corner of the chart there is a specific blue color, a phthalocyanine pigment called CYAN. At the opposite corner (bottom right) is a specific red, a monoazo pigment called MAGENTA. Both pigments reflect broadly across the visible spectrum, but the reflectance peak of CYAN is in the blue region of the spectrum and that of MAGENTA is in the red. All the other colors on the chart are intermediate between these two.

Two of the wildflower species tested also contain small percentages of yellow in their reflected color. These are noted in the list below with an asterisk (*).

What was important for this study was whether the flowers were relatively more blue or more red, as measured by the ratio of CYAN intensity to MAGENTA intensity (CYAN/MAG). At the top of the list are the pinkest flowers, having the lowest CYAN/MAG values. At the bottom of the list are the bluest flowers, with the highest values for CYAN/MAG. Note the position of *Campanula rotundifolia* (bluebell). It is left to the reader to decide at what ratio flowers should be called "blue."

Thanks to Waymon Bonner and Robert Harmison of Wy'east Color, Inc. for their kind help in this little study.

Russ Jolley
Portland Chapter

| | |
|------------------------------|-----|
| <i>Spiraea douglasii</i> | 0.2 |
| <i>Penstemon rupicola</i> | 0.3 |
| <i>Plectritis congesta</i> | 0.3 |
| <i>Cirsium undulatum</i> | 0.3 |
| <i>Lathyrus latifolius</i> | 0.3 |
| <i>Dodecatheon jeffreyi</i> | 0.4 |
| <i>Lamium purpureum</i> | 0.4 |
| <i>Stachys cooleyae</i> | 0.4 |
| <i>Dodecatheon poeticum</i> | 0.4 |
| <i>Dodecatheon cusickii</i> | 0.5 |
| <i>Penstemon barrettiae</i> | 0.5 |
| <i>Lomatium columbianum*</i> | 0.5 |

| | |
|--|-----|
| <i>Cirsium arvense</i> | 0.5 |
| <i>Sisyrinchium douglasii</i> | 0.5 |
| <i>Cirsium vulgare</i> | 0.6 |
| <i>Lunaria annua</i> | 0.6 |
| <i>Calypso bulbosa</i> | 0.6 |
| <i>Arctium minus</i> | 0.6 |
| <i>Phlox diffusa</i> | 0.6 |
| <i>Cardamine tenella</i> | 0.7 |
| <i>Penstemon glandulosus</i> | 0.7 |
| <i>Dodecatheon pulchellum</i> | 0.7 |
| <i>Dodecatheon hendersonii</i> | 0.7 |
| <i>Corydalis scouleri</i> | 0.7 |
| <i>Arabis sparsiflora*</i> | 0.7 |
| <i>Penstemon richardsonii</i> | 0.8 |
| <i>Lathyrus nevadensis</i> | 0.8 |
| <i>Brodiaea congesta</i> | 0.8 |
| <i>Lupinus laxiflorus</i> | 0.8 |
| <i>Penstemon cardwellii</i> | 0.8 |
| <i>Lupinus leucopsis</i> | 0.9 |
| <i>Vicia americana</i> | 0.9 |
| <i>Camassia quamash</i> | 0.9 |
| <i>Lupinus polyphyllus</i> | 0.9 |
| <i>Campanula rotundifolia</i> | 0.9 |
| <i>Viola howellii</i> | 1.0 |
| <i>Viola palustris</i> | 1.0 |
| <i>Vicia cracca</i> | 1.0 |
| <i>Veronica americana</i> | 1.0 |
| <i>Veronica scutellata</i> | 1.0 |
| <i>Erigeron subtrinervis</i> | 1.0 |
| <i>Collinsia parviflora</i> | 1.1 |
| <i>Delphinium trollifolium</i> | 1.1 |
| <i>Delphinium menziesii</i> | 1.1 |
| <i>Lathyrus polyphyllus</i> | 1.1 |
| <i>Brodiaea coronaria</i> | 1.2 |
| <i>Delphinium nuttallianum</i> | 1.2 |
| <i>Delphinium burkei</i> | 1.2 |
| <i>Delphinium nuttallii</i> | 1.2 |
| <i>Lupinus latifolius</i> var. <i>thompsoniana</i> | 1.2 |
| <i>Synthyris stellata</i> | 1.3 |
| <i>Cynoglossum grande</i> | 1.4 |
| <i>Penstemon subserratus</i> | 1.4 |
| <i>Frasera albicaulis</i> | 1.5 |
| <i>Synthyris reniformis</i> | 1.5 |
| <i>Penstemon ovatus</i> | 1.6 |
| <i>Hackelia diffusa</i> | 1.7 |

STATE OFFICERS

DIRECTORS (to 6/97) Dave Dobak, Rhoda Love, Kareen Sturgeon
 DIRECTORS (to 6/96) Jerry Igo, Ethen Perkins, Peter Zika
 PRESIDENT Michael Igo P.O. Box 603, Mosier 97040;
 IMMEDIATE PAST PRESIDENT Bruce H. Rittenhouse 550 Fillmore, Coos Bay, 97420-3167; w:756-0100; h:888-9328
 VICE PRESIDENT Veva Stansell PO Box 659, Gold Beach, OR 97444-0959; 247-7153
 SECRETARY Julie Knurowski Thiel 6144 Stonehill Ave. S, Salem 97306; 362-2057
 TREASURER Jean M. France 5877 SW Kennycroft Way, Lake Oswego, OR 97035-7023; 639-0741

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) ... Jerry Baker Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Bruce Newhouse 2525 Potter, Eugene, 97405-4165; 343-2364
 HIGH DESERT (Bend) Stu Garrett 21663 Paloma Dr., Bend 97701; 389-6981
 MID-COLUMBIA Allen Bell P.O. Box 680, White Salmon, WA 98672; 509-493-4212
 NORTH COAST Christine Stanley P.O. Box 201, Cannon Beach 97110-0201; 436-0161
 PORTLAND Sue Allen P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers 725 Leonard St., Ashland 97520; 482-5492
 South Coast Tim Rodenkirk 611 N. 12th St., Coos Bay 97420; 269-4696
 UMPQUA VALLEY (Roseburg) ... Richard H. Sommer
 WILLAMETTE VALLEY (Salem) .. Mark Quistad 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Barbara Russell 903 1/2 M Ave., La Grande 97850; 963-7495

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE Stu Garrett 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Steve Hinton 623 NE Brazee St., Portland 97212; 281-4124
 MEMBERSHIP Jan Dobak 2584 NW Savier St, Portland 97210-2412; 248-9242
 BUDGETS AND GRANTS Dan Luoma 3740 NW Harrison, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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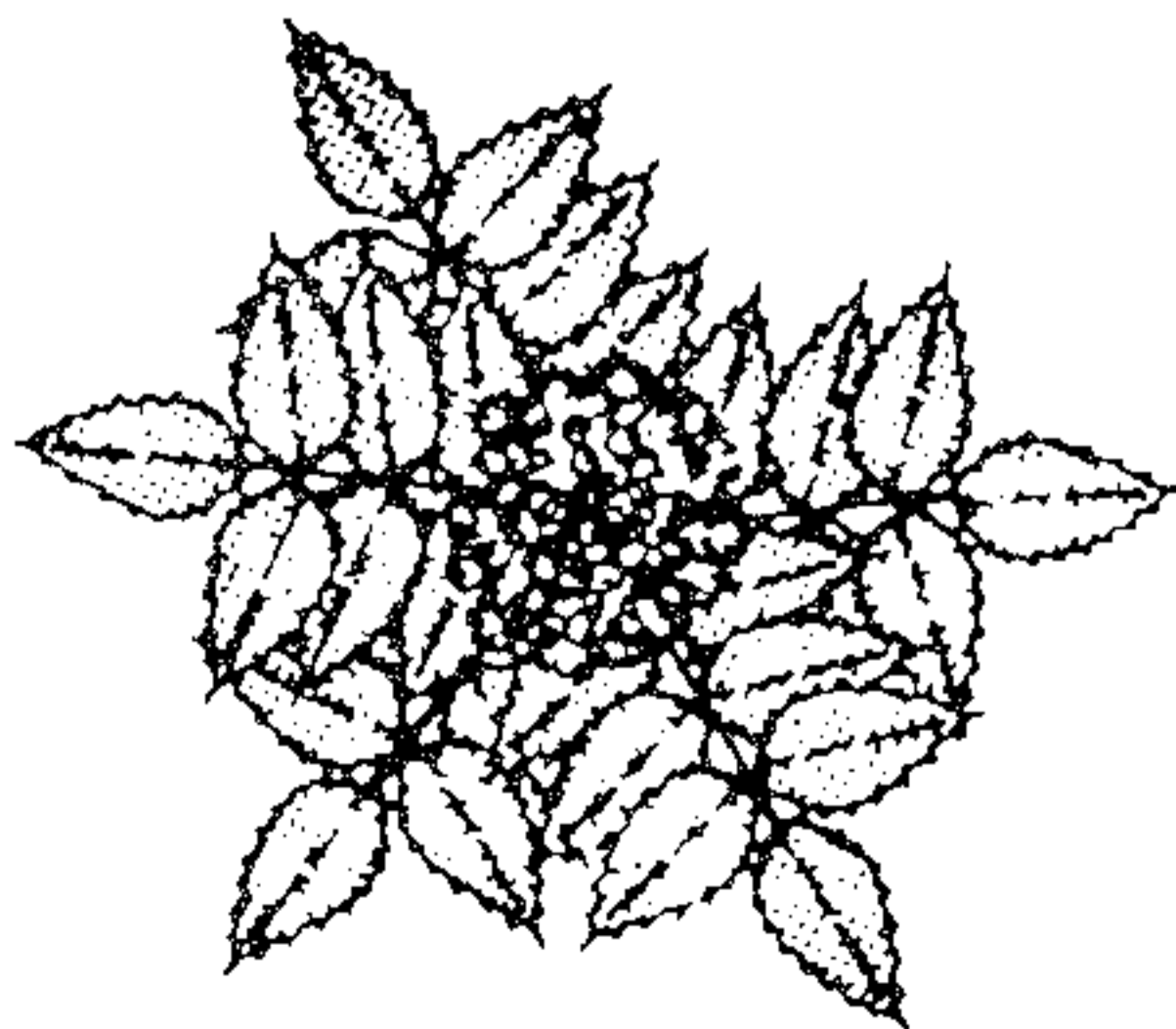
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NATIVE PLANT SOCIETY OF OREGON
General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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