

# Bulletin

of the

# Native Plant Society of Oregon

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

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AUGUST/SEPTEMBER 2016

## Rearing Monarch Butterflies

by Lynn Putnam

### What to do if monarch butterflies lay eggs on your milkweed plants.

We've all been hearing about the decline of monarch butterflies and many of us are planting native milkweed and nectar plants to help them (these gardens are called waystations). Adult butterflies feed on nectar plants and lay their eggs on milkweed, the food source for the larva/caterpillar stage. To meet all the monarch's needs, waystations also include a water source (mud or wet sand) and trees/shrubs for resting and hiding from predators.

Often, however, just creating a waystation isn't enough to ensure their survival. I was recently talking with a

friend who checked every day on an egg, then a larva, on her milkweed she had planted at her house. One day, to her shock, the monarch was gone.

Turns out, 90 to 95 percent do not survive in the wild from egg to adult. Predators include wasps, spiders, and other insects. Birds may try it — once. The sap, or milk, in milkweed is toxic to vertebrates. In fact, don't rub your eyes after handling milkweed with running sap. The milkweed is the monarch's defense, making them distasteful to potential predators.

### So what can we do?

That was my question when I visited the Butterfly Pavilion at the Elkton

Community Education Center on July 18. It is a great place to learn about monarch butterflies. Barbara Slott, a retired wildlife biologist, now a volunteer at the Center, was on hand to answer questions and show me their facility.

In addition to the Pavilion, the Center has lots of interesting stuff in their gift shop, like butterfly cages and books. They also offer informative workshops. Check their web site for future offerings, [elktonbutterflies.com/butterfly-pavilion.html](http://elktonbutterflies.com/butterfly-pavilion.html).

### Approaches

One approach is to leave the eggs/larvae outside and cover your milkweed. You'll have to devise a frame and cover it with very fine mesh fabric, with small enough holes to block most flying insects. News flash: I thought monarch butterfly moms only laid eggs

*continued on page 8*

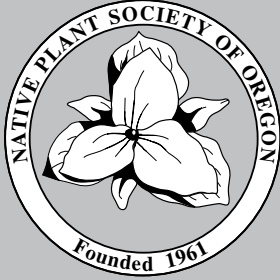


Lynn Putnam and Barbara Slott at the Butterfly Pavilion.

LYNN PUTNAM

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## Native Plant Society of Oregon

### World Wide Web

<http://www.NPSOOregon.org>

### E-mail Discussion List

To join, send a message to [majordomo@tardigrade.net](mailto:majordomo@tardigrade.net), with the following in the body of the message: `subscribe npsos`

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

## New State Board Members

New NPSO State Board members were installed at the 2016 Annual Meeting Saturday night banquet. Steven Yeager (Emerald Chapter) was elected secretary by a voice vote prior to the Board installation. Sam Friedman, Linda Hardison, and Kevin Weitemier, the three outgoing Directors, and outgoing President Kelli Van Norman, were recognized for their service. The new NPSO State Board is:

President: Lisa Blackburn  
Vice President: Dan Luoma  
Secretary: Steven Yeager  
Treasurer: Cyndi Dion  
Directors: Mary Beth Averill, Susan Berger, Billy Don Robinson (to 6/2017)  
Thea Cook Jaster, Michael McKeag, Zak Weinstein (to 6/2018)



## New Cheahmill Chapter President

Please welcome Lisa Blackburn as she returns to serve another term as president of the Cheahmill Chapter (effective September 2016), in addition to her new role as president of the state Board. Lisa has been active at the state and chapter level for several years, and previously served as secretary and vice president at the state level. Thank you to Susan Aldrich Markham for serving as chapter president the past couple of years.



## July 2016 NPSO State Board Meeting Highlights

by Steven Yeager, NPSO Secretary

NPSO Committees were reviewed and committee membership updated. Two new committees were formed: an Outreach Committee, which will work closely with other already established committees to get NPSO's messages and practices out to the public; and a Website Committee. These two new committees will need to work closely together.

NPSO membership currently is over 900 members. The ability to join online has directly contributed to the increase in membership.

The Publications Committee has a list of books for volunteers to read and review. Book reviews will be published in either the *Bulletin* or online *Kalmiopsis*. A list of the books will be sent to Chapter Presidents. Contact Karen Sturgeon if you are interested in being a reviewer.

The Annual Meeting rotation schedule was discussed, particularly the idea of having smaller chapters co-host Annual Meetings. Corvallis and Umpqua Valley will co-host for 2017, and Portland will host for 2018. We still need to get the rotation for 2019 and beyond.

The Board decided to submit an application for an Intel Encore Fellow to assist us in updating the NPSO website. Michael McKeag will take the lead in completing the application, which is due the end of July.

# NPSO CALENDAR

## State Notes

### State Board Meeting

**October 15, Saturday, 10 am-2 pm**

The next Board meeting will be hosted by the High Desert Chapter. Location in Bend to be determined.

## Blue Mountain

*For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244. To get on our email list, contact [flora.id@wtechlink.us](mailto:flora.id@wtechlink.us).*

## Cheahmill

*For questions, or to be added to the Cheahmill Chapter's email list for reminders of upcoming programs and events, please contact the Cheahmill Chapter President at [ch\\_president@NPSOoregon.org](mailto:ch_president@NPSOoregon.org).*

### Meeting and work party location:

Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Highway 99W and SW Second St.), McMinnville. Parking lot entrances on Adams and Second Streets. Meetings start at 7 pm. Doors open at 6:45 pm. for socializing.

**August 27, Saturday, 10 am-noon**

### Work Party: Native Plant Garden.

Join NPSO volunteers tending the native plant garden at McMinnville Public Library. Dress for the weather and bring gloves and gardening tools if possible. No experience is necessary; the garden is a great place to get more familiar with local native species. Location: McMinnville Public Library, see above for details. For more information, contact Susan Williams at [helgesusan@comcast.net](mailto:helgesusan@comcast.net) or 503-538-1865.

**September 22, Thursday, 7 pm**

### Program: Aphids in Sun and Shade — What Affects their Distribution?

Chad Tillberg, biology professor at Linfield College, will discuss his research at Colorado's Rocky Mountain Biological Lab. Learn how ants and their predators affect the distribution and abundance

of aphids in high-elevation sunny meadows and shady aspen understories where these insect herbivores feed on *Ligusticum porteri*. The speaker will also mention ongoing research on Fender's blue butterfly in the West Eugene Wetlands. Doors open at 6:45 pm for socializing. Location: Carnegie Room, McMinnville Public Library, see above for details.

### IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at [http://npsoregon.org/documents/NPSO\\_waiver.pdf](http://npsoregon.org/documents/NPSO_waiver.pdf). Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. 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. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

### 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. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

**September 24, Saturday, 10 am-noon**

### Work Party: Native Plant Garden.

Join NPSO volunteers at Work Party No. 200 (Yes, that's right! No. 200!) at the Native Plant Garden at McMinnville Public Library. Dress for the weather and bring gloves and gardening tools if possible. No experience is necessary; the garden is a great place to get more familiar with local native species. Location: McMinnville Public Library, see above for details. For more information, contact Susan Williams at [helgesusan@comcast.net](mailto:helgesusan@comcast.net) or 503-538-1865.

## Corvallis

*For questions, information on upcoming events, or to be on the Corvallis chapter email list, contact [co\\_president@NPSOoregon.org](mailto:co_president@NPSOoregon.org).*

**August 20, Saturday, 8 am-late afternoon**

**Field Trip: Triangulation Peak.** This is a new destination in the North Santiam drainage, due to the closure of Highway 20 that makes access to the upper elevations of the South Santiam difficult. There should still be many wildflowers along the way since the trail follows the north side of the mountain at about 5,000 ft. elevation. The view from the top is spectacular. Four miles round-trip, 800 ft. gain, with the first part easy and the last part moderate. Bring lunch and water, walking sticks if you use them, dress for the weather, and wear sturdy shoes. Location: meet at the OSU Wilkinson Hall parking lot, southwest of the Beanery at 26th and Monroe. For more information and to RSVP, contact Dan: 541-752-8860, or [luomad@fsl.orst.edu](mailto:luomad@fsl.orst.edu).

**September 10, Saturday, 9 am**

**Field Trip: Cascade Head.** A lovely trip that will be weather and interest dependent. We will either go to the dunes by boat or hike to the headland. Bring a lunch, raingear, and a boat if you wish to forge the Salmon River to the dunes. We will return in the afternoon. Location: meet at the OSU Wilkinson Hall parking lot, southwest of the

Beanery at 26th and Monroe. Contact Esther McEvoy for more information at 541-754-0893.

### September 18, Sunday, 1-3 pm

**Work Party: Avery House Native Plant Garden.** Help get the native plant garden ready for fall. Bring water, gloves and a hat. Location: Avery Park. Contact Esther McEvoy for more information at 541-754-0893.

## Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

**New Meeting Location:** The Stellaria Building, 150 Shelton-McMurphey Boulevard, Suite 104, Eugene. Head east on West 3rd Avenue until it turns into Shelton-McMurphey Boulevard. Stellaria is inside Hummingbird Wholesale.

### September 15, Thursday, 7 pm

**Program: The Exquisite Orchids of Oregon.** Long-time member Charlene Simpson gives a program about orchids native to Oregon. Her program includes a discussion of orchids worldwide: their economic importance, diverse forms, and reproductive strategies. She explores the high cost of pollinator specialization and obligate fungal associations. Charlene illustrates her program with stunning images drawn from her 40-year archive of native plant photos. New meeting location: The Stellaria Building, 150 Shelton-McMurphey Boulevard, Suite 104 in Eugene, see above for details.

## Filipendula

*This is a newly formed chapter for the northern Oregon coast area. For more information, visit our Facebook page: NPSO-Filipendula Chapter, or contact Field Trip Chair Carla Cole, [colectarla@yahoo.com](mailto:colectarla@yahoo.com).*

Watch our Facebook page for specifics on these and other chapter activities.

### Date and Time TBD

#### Workshop: iNaturalist Overview.

Learn how to use the iNaturalist

website to track native plant data. We will use the Lewis & Clark National Park's wi-fi connection, and take new users through sign up and into loading and confirming observations, as well as other aspects of iNaturalist. Location: Lewis & Clark National Park, Fort Clatsop Visitor's Center, Warrenton.

### Date and Time TBD

#### Botany Hike: Saddle Mountain.

## High Desert

For information, visit the High Desert Chapter website: [www.highdesertnpsoregon.org](http://www.highdesertnpsoregon.org) and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email [highdesertnps@gmail.com](mailto:highdesertnps@gmail.com).

## Klamath Basin

For information on the Klamath Basin Chapter, visit <http://klamathbasinnps.com> or contact the chapter president, Kim Elliott, [kb\\_president@NPSOregon.org](mailto:kb_president@NPSOregon.org). 252.

## Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at [mc\\_president@NPSOregon.org](mailto:mc_president@NPSOregon.org).

### September 15, Thursday, 7 pm

**Program: Fall Wild Card Night!** We are holding space open for possibilities including a business meeting, a potluck, updating each other about all the cool stuff we saw and pics we took in the summer of 2016, and maybe a short talk. If we don't get it all done, we'll continue during our October meeting. Location: Columbia Gorge Community College, Building 1, Room 1.362, 400 E. Scenic Drive, The Dalles. Further information: Billy Don Robinson, 503-515-1708 or [bdmeme@gmail.com](mailto:bdmeme@gmail.com).

## Portland

*If you would like to receive the chapter's semi-official email newsletter, The Calochortus, email Don Jacobson at [donjphoto@gmail.com](mailto:donjphoto@gmail.com).*

**Facebook: Take a look at our Facebook page.** Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant

pictures.

The Portland Chapter meets the second Thursday of most months. Meetings and programs begin at 7:00 pm. **MEETING PLACE: Copeland Commons, TaborSpace at Mt. Tabor Presbyterian Church**, 5441 SE Belmont St., Portland. Enter the church through the main door off Belmont and turn right to enter the room. Parking is available in the church lot on the NW corner of SE 54th and Belmont.

### September 8, Thursday, 7 pm

**Program: Care and Feeding of Your Stream — Native Reforestation on Private Land.** The Johnson Creek Watershed Council's CreekCare program works with private landowners to control invasive plants along streams in the watershed and replace them with appropriate native riparian species. Hydrologic alterations, land use practices, and landowner wishes pose unique challenges to this work in Johnson Creek. CreekCare seeks the "sweet spot" where native plantings can achieve restoration goals and mesh with the needs and wants of property owners. Noah Jenkins, riparian program manager of the Johnson Creek Watershed Council, will discuss the conservation efforts of the CreekCare program. Contact: Mary at [alphiesmith@comcast.net](mailto:alphiesmith@comcast.net) or 503-288-4340.

### October 1, Saturday, 9 am

**Field Trip: Abies ("True" Firs) Hike.** Hike leader Rick Shory has worked throughout the West as a Forest Service botanist. There is only one small area southeast of Mt. Hood where all four species of "true" fir (Abies) in the Northwest grow together, making comparison easy. Come learn this important genus of conifers, how to distinguish the species, and tell them apart from other trees. Very easy hike — a quarter mile on river trail and paved road, but you can make it a longer walk if you wish. Location: leave at 9:00 am, from near Gateway MAX station, SW corner of NE Multnomah Street and NE 99th Ave, by Gateway Medical Pharmacy. Or meet on site at 10:30 am. Round trip from downtown Portland, about 140 miles. Contact Rick Shory at

rickshory@gmail.com or 503 253-8100 to sign up for the hike and for the exact site.

## Siskiyou

*To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2016, make a suggestion, or provide feedback regarding the field trip program, please contact Julie Spelletich at: jspelletich@gmail.com. Join us on Facebook at: facebook.com/SiskiyouChapterNativePlantSocietyOfOregon.*

**September 15, Thursday, 7 pm**

**Program: Proposed Douglas Fir National Monument — A Template for 21st Century National Forest Conservation and Management.** Stephen Sharnoff will give an overview of the initiative he and Andy Kerr are working on to establish a Douglas Fir National Monument in the upper Santiam River watershed. Visit the initiative's website at [douglasfirnationalmonument.org](http://douglasfirnationalmonument.org). Sharnoff is a botanical photographer

and a research associate at the Jepson Herbarium, UC Berkeley, and the Missouri Botanical Garden. He and his late wife Sylvia did the photographic fieldwork for *Lichens of North America*. He also wrote and illustrated *A Field Guide to California Lichens*. Refreshments at 6:45 pm, meeting and program at 7:00 pm. Location: Southern Oregon University Science Building, Room 161. Free and open to the public. For information contact Dave at 541-535-5355.

## South Coast

*This is a newly formed chapter. For more information, contact the chapter president, Alexis Brickner, [sc\\_president@NPSOregon.org](mailto:sc_president@NPSOregon.org).*

## Umpqua Valley

*Visit [umpquavallemnativeplants.com](http://umpquavallemnativeplants.com) for more information on chapter activities or to be added to our email list. Check out our Facebook page, [www.facebook.com/UmpquaValleyNPSO](http://www.facebook.com/UmpquaValleyNPSO). Not online - call Donna Rawson 541-459-2821.*

## Willamette Valley

*For program information, contact John*

*Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.*

**September 4, Sunday, 7 am-6 pm**

**Field Trip: Jefferson Park.** John Savage will lead a hike to Jefferson Park in the Mt. Jefferson Wilderness about 20 miles beyond Detroit. This is a difficult hike (10 miles with 1,800 ft. gain) to view a wide range of forest and meadow wildflowers as well as spectacular Mt. Jefferson. Hike is free and open to the public, but limited to 11 people. Bring food and water for lunch at Scout Lake. For registration and additional information, call 503-399-8615 after 7 pm.

## William Cusick

*Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.*

## OTHER EVENTS

### Ashland Parks and Recreation

**August-September, Sunday, Wednesday, Friday, 10 am**

**Nature Walks: Lithia Park.** Enjoy beautiful Lithia Park's natural history. Three days a week — Sundays, Wednesdays and Fridays rain or shine, trained volunteer naturalists lead an easy, interesting, 1.5-hour nature walk through Lithia Park. Topics include: trees, flowers, birds, climate, water, geology and the history of the park. Free, pre-registration is not required. Location: meet at the Lithia Park entrance, across from the Plaza in Ashland. For more information, visit [ashlandpark-sandrec.org](http://ashlandpark-sandrec.org) or call 541-488-5340.

### Greenbelt Land Trust

**September 10, Saturday, 9 am-noon**

**'Fitt' to Hike: Farm to Fitton.** Join Greenbelt and the Marys Peak Group of the Oregon Sierra Club as we hike round-trip from Bald Hill Farm to Fitton Green. Explore endangered oak habitat and enjoy panoramic Coast Range vistas while learning why connecting open space is important for wildlife, plants, and recreation. As we walk through newly-restored oak habitat on Mulkey Ridge, Greenbelt staff will talk about the 2-year Woodlands Stewardship Project to enhance remnant oak habitat in the Willamette Valley. To sign up and for more information, email [rebecca@greenbeltlandtrust.org](mailto:rebecca@greenbeltlandtrust.org) or call 541-752-9609.

### Deschutes Land Trust

**September 20, Tuesday, 5-7 pm**

**Tree Walk: Metolius Preserve.** Join Kelly Madden for an evening walk to wander the southern portion of the Metolius Preserve to explore ponderosa pines, larch, fir and other trees. The Metolius basin boasts a unique combination of wetter plants and trees from the west side of the Cascades along with the drier eastern Cascade vegetation. We will explore all that it has to offer. Registration is required and opens one month prior to the event. This is an easy, ~2-3 mile walk on dirt roads and trails with very little elevation gain/loss. For more information and to register, visit [deschuteslandtrust.org/hikes-events/hikes](http://deschuteslandtrust.org/hikes-events/hikes) or call 541-330-0017.

# Soliciting Input for Revising Threatened and Endangered Plants List

by Maelagh Baker

The Native Plant Conservation Program of the Oregon Department of Agriculture is updating the state Threatened and Endangered Plants list. Information will be gathered until December 2016. A draft list has been generated after consultation with regional BLM botanists and the Oregon Biodiversity Information Center. The list of fifty-five taxa to be added includes those petitioned by NPSO as well as some suggested by citizens. Additionally, many Oregon plants with a NatureServe rank of G1 or G2 designating them as especially imperiled are on the draft list, making it quite inclusive at this point. The Native Plant Conservation Program welcomes all information regarding the suitability of each taxon for listing. NPSO members have valuable statewide and regional plant expertise that will help us create the most accurate list of taxa meeting the criteria for listing. Anyone who has input can send it to Maelagh Baker at bakermae@oregonstate.edu or call 541-415-1032.



Oregon Department of Agriculture  
Native Plant Conservation Program  
Rare Plant Review  
Draft List of Taxa to Review for Potential State Listing

Scientific Name	Common name
<i>Achnatherum wallowaense</i>	Wallowa ricegrass
<i>Allium dictuon</i>	blue mountain onion
<i>Astragalus lemmonii</i>	Lemmon's milk-vetch
<i>Astragalus misellus</i> var. <i>misellus</i>	Pauper milk-vetch
<i>Boechera horizontalis</i>	Crater Lake rockcress
<i>California macrophylla</i> ( <i>Erodium macrophyllum</i> )	large-leaved filaree
<i>Calochortus persistens</i>	Siskiyou mariposa lily
<i>Carex davyi</i>	dry-spike sedge
<i>Carex klamathensis</i>	Klamath sedge
<i>Carex tiogana</i>	Tioga Pass sedge
<i>Castilleja chambersii</i>	Chambers' paintbrush
<i>Castilleja chlorotica</i>	green-tinged paintbrush
<i>Castilleja mendocinensis</i>	Mendocino coast paintbrush
<i>Collomia renacta</i>	Barren Valley collomia
<i>Erigeron stanselliae</i>	Stansell's daisy
<i>Eriogonum cusickii</i>	Cusick's eriogonum
<i>Eriogonum prociduum</i>	prostrate buckwheat
<i>Eriogonum villosissimum</i>	Acker Rock wild buckwheat
<i>Erythranthe inflatula</i> ( <i>Mimulus evanescens</i> )	disappearing monkeyflower
<i>Gilia millefoliata</i>	Seaside gilia
<i>Horkelia congesta</i> ssp. <i>congesta</i>	shaggy horkelia
<i>Horkelia hendersonii</i>	Henderson's horkelia
<i>Iris tenax</i> var. <i>gormanii</i>	Gorman's iris
<i>Ivesia rhypara</i> var. <i>shellyi</i>	Shelly's ivesia
<i>Kalmiopsis fragrans</i>	North Umpqua kalmiopsis
<i>Lasthenia ornduffii</i>	large-flowered goldfields
<i>Lathyrus holochlorus</i>	thin-leaved peavine
<i>Limnanthes floccosa</i> ssp. <i>bellingariana</i>	Bellinger's meadow-foam
<i>Lomatium bentonitum</i>	Bentonite biscuitroot
<i>Lomatium ochocense</i>	Ochoco lomatium
<i>Lomatium pastorale</i>	meadow lomatium
<i>Lomatium suksdorfii</i>	Suksdorf's lomatium

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<i>Lupinus lepidus</i> var. <i>ashlandensis</i>	Mt. Ashland lupine
<i>Meconella oregana</i>	white meconella
<i>Micranthes hitchcockiana</i> ( <i>Saxifraga hitchcockiana</i> )	Saddle Mt. saxifrage
<i>Monardella angustifolia</i>	narrow leaf monardella
<i>Myosurus sessilis</i>	sessile mousetail
<i>Navarretia willamettensis</i>	Willamette navarretia
<i>Penstemon deustus</i> var. <i>variabilis</i>	hot rock penstemon
<i>Perideridia erythrorhiza</i>	red-root yampah
<i>Phacelia inundata</i>	playa phacelia
<i>Phacelia leonis</i>	Siskiyou phacelia
<i>Plagiobothrys figuratus</i> var. <i>corallicarpus</i>	coral seeded allocarya
<i>Prosartes parvifolia</i>	Siskiyou fairy bells
<i>Pyrrocoma scaberula</i>	rough pyrrocoma
<i>Ranunculus tritermatus</i>	Dalles Mt. buttercup
<i>Rorippa columbiae</i>	Columbia cress
<i>Sisyrinchium hitchcockii</i>	Hitchcock's blue-eyed grass
<i>Sisyrinchium sarmentosum</i>	pale blue-eyed grass
<i>Stanleya confertiflora</i>	biennial stanleya
<i>Streptanthus glandulosus</i> ssp. <i>josephinensis</i>	Josephine jewel flower
<i>Tauschia howellii</i>	Howell's tauschia
<i>Trifolium douglasii</i>	Douglas clover
<i>Trifolium leibergii</i>	Leiberg's clover
<i>Utricularia minor</i>	lesser bladderwort

## Call for Fellows Award Nominations

by Kareen Sturgeon and Cindy Roché

The Fellows Committee has developed guidelines for recognizing NPSO members for their exceptional contributions to the Society. The award comes with a certificate of recognition and lifetime membership in the Society. The guidelines are available online at [www.npsoregon.org/fellow awards](http://www.npsoregon.org/fellow awards) or by request from the Fellows Committee at [fellows@npsoregon.org](mailto:fellows@npsoregon.org). Nominations for the Fellows Award should be sent by December 31 to the Fellows Committee at [fellows@npsoregon.org](mailto:fellows@npsoregon.org). Nominations should include an essay describing the nominee's accomplishments and a good quality digital photo of the nominee that is suitable for publication. The Fellows Committee will evaluate completed nominations and recommend awardees to the state Board. Awards will be presented at the next Annual Meeting; biographies and photos of recipients will be posted on the NPSO website.

## Supporting the Cause of Your Choice — It's Never Been Easier

How concerned are you about the quality of air you breathe? What about the natural areas you visit — would you like to visit them 10, 20 or 50 years from now? With ongoing threats to our natural environment, we count on conservation groups to protect our forests, farmland, streams, and air quality.

NPSO is a member of EarthShare Oregon, a nonprofit that allows employees across Oregon to support nearly 80 of the best environmental organizations here at home, and coast to coast.

If you work for the State of Oregon, the federal government, Kaiser Permanente, NW Natural, PGE, or one of more than 100 employers (<http://earthshare-oregon.org/campaigns/workplace-partners>), you can make one-time or regular donations from your paycheck — just by signing up once a year. It's simple and easy.

Please contribute today through EarthShare to restore our forests, reduce landfill waste, develop clean energy, protect threatened land, and safeguard our streams. When you do, you're not only protecting Oregon's

environmental legacy, you're inspiring others to share in that responsibility.

If your workplace does not offer EarthShare Oregon, establishing a partnership is easy. EarthShare staff will work with your employer to set up a program that meets your company's needs.

For more information, please contact Jan Wilson at 503-223-9015 or [jan@earthshare-oregon.org](mailto:jan@earthshare-oregon.org). And visit us at [earthshare-oregon.org](http://earthshare-oregon.org).

## Rearing Monarchs, *cont'd*

on mature, blooming milkweed. However, they'll lay their eggs on even the most newly planted, immature plants (when you gotta lay, you gotta lay). So check your milkweed often.

The best approach is to take the eggs/larvae and raise them indoors. At first, this might sound daunting. But as you'll see, it's easier than it sounds. However, it takes some time — 30 to 32 days from egg to adult.

### What you need

You'll need an upright container, as a little vertical room is useful. You'll also need a clean, sterilized container with a lid with a hole cut out. This works well as a vase to hold and keep the milkweed fresh, as it should be kept in water, but keep the hole fairly small so the larvae won't fall in. Handle the eggs and caterpillars with extreme care.

At this point, it's good to have some idea of the monarch life cycle and the time frames (visit [monarchwatch.org/biology/cycle1.htm](http://monarchwatch.org/biology/cycle1.htm) for more information), as the eggs are really small, and so is the first instar (an eyelash size at first). The egg, chrysalis, and adult stages don't require milkweed. But the caterpillars (larvae) are ravenous. They need fresh milkweed daily. Caterpillars go through five instars, so expect some shedding during this 10–14 day period.

See [monarchjointventure.org/images/uploads/documents/Monarch\\_Rearing\\_Instructions.pdf](http://monarchjointventure.org/images/uploads/documents/Monarch_Rearing_Instructions.pdf) for some rules to follow when raising monarch indoors, most importantly keeping containers clean. Also be aware that monarchs are susceptible to OE



LYNN PUTNAM

*To safely transfer your precious cargo, use a small artist paintbrush.*



LYNN PUTNAM

*Expandable butterfly cage.*

parasite (*Ophryocystis elektroscirrha*), so keeping them in separate cages is a good policy. And while it's good for us to rear monarchs (it is a wonderful education opportunity for children), when butterflies emerge, they should be released at a waystation (hopefully the one where the egg was laid). Monarch butterfly scientists discourage commercially raising or mass-rearing



LYNN PUTNAM

*As I watched, a monarch laid three eggs on a showy milkweed leaf.*

monarch butterflies due to the high possibility of spreading disease (media.wix.com/ugd/9446a7\_9b9fd5aa06814fbda512826d54e1c55c.pdf).

### Other resources

Equipment: [insectlore.com](http://insectlore.com) and [bioquip.com](http://bioquip.com)

Sampling monarchs for infectious disease: [monarchparasites.org](http://monarchparasites.org)

More information about the rearing process: [monarchlab.org/biology-and-research/monarch-rearing](http://monarchlab.org/biology-and-research/monarch-rearing)



## Roots and Leaves Themselves Alone

ROOTS and leaves themselves alone are these,

Scents brought to men and women from the wild woods

and pond-side,

Breast-sorrel and pinks of love, fingers that wind around

tighter than vines,

Gushes from the throats of birds hid in the foliage of trees

as the sun is risen,

Breezes of land and love set from living shores to you on the

living sea, to you O sailors!

Frost-mellow'd berries and Third-month twigs offer'd fresh

to young persons wandering out in the fields when the

winter breaks up

Love-buds put before you and within you whoever you are,

Buds to be unfolded on the old terms, If you bring the warmth of the sun to them they will open

and bring form, color, perfume, to you,

If you become the aliment and the wet they will become

flowers, fruits, tall branches

and trees.

—Walt Whitman



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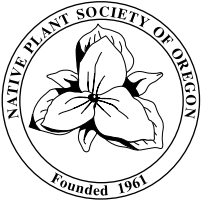
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