



Bulletin of the

NATIVE PLANT SOCIETY OF OREGON

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

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MAY 1991

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OUR 30TH ANNIVERSARY YEAR

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Please contact the trip leader for information about difficulty, mileage, and terrain. Participation is at your own risk. Bring water and lunch. All NPSO activities are open to the public at no charge (other than carpool mileage), and friends, newcomers and visitors are always welcome.

Notice to field trip chairs and leaders: The Forest Service and other Federal agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit the human impact on these fragile areas. As we are often in the position of asking them to follow their rules and regulations for conservation of our natural resources, it's time for us to do the same. Each group using wilderness must be no larger than 12.

Blue Mountain

5 May, Sun.

FIELD TRIP. Joint trip with the Pendleton Bird Club up the Umatilla River to observe riparian flora and fauna. Final destination is the Bar-M-Ranch, so bring your swimsuit as all participants are welcome to swim. Leave from the BMCC Greenhouse at 8am.

6 May, Mon.

MEETING. 7:30pm in Room 130, Morrow Hall, BMCC. Jerry will show his slides from the trip to Twin Sisters April 6th, and we will finish planning our summer field trips and any other unfinished business before we adjourn our meetings for the summer.

18 May, Sat.

FIELD TRIP. Berta Youtie of the Nature Conservancy will lead a trip to the Lindsay Prairie Preserve. Leave from the BMCC Greenhouse at 8am.

19 May, Sun.

FIELD TRIP. Ruth Rouse will lead a trip up Yellowjacket Road to observe the *Lewisia* and the chocolate lily. Date may vary depending on blooming date, call Ruth at 276-4791 to confirm. Leave from the BMCC Greenhouse at 8am.

1 June, Sat.

FIELD TRIP. Bruce Barnes will lead a trip up the South Fork of the Umatilla River. Leave from the BMCC Greenhouse at 8am.

Corvallis

5 May, Sun.

FIELD TRIP to Finley Wildlife Refuge with Tom Kaye. Leave at 10am from the parking lot across the street from the Monroe Street Beanery. Bring a picnic lunch and appropriate field clothing. Call Esther McEvoy (754-0893) for more information.

13 May, Mon.

MEETING. 7:30 at the Herbarium Library (Room 4083 Cordley Hall, OSU). Our guest Speaker will be Dr. Aaron Liston, Director of the Herbarium. His topic is "Botanical Travels in Northwest China".

18 May, Sat. **FIELD TRIP** to Bald Hill with Dick Halse. Bring a picnic lunch and appropriate field clothing. Call Esther McEvoy (754-0893) for more information.

Emerald

11 May, Sat. **MEETING.** 10am at Mount Pisgah Arboretum. Pre-wildflower show planning and collection coordination. Volunteers needed for collecting, setup, and keying. For further information call Jenny Dimling (343-3242).

13 May., Mon. **MEETING.** 7pm at the Kennedy Middle School, Bailey Hill Rd. and West 18th. John Christie of the Oregon Natural Heritage Program will speak on "Mosses, Lichens, and Liverworts...Ranking for Protection".

17 May, Fri.
18 May, Sat. **MEETING.** 9am at Mount Pisgah Arboretum. Collect, setup and ID for Wildflower Show. For further information call Jenny Dimling (343-3242).

19 May, Sun. **CELEBRATE SPRING** at the **MOUNT PISGAH ARBORETUM/EMERALD CHAPTER NPSO WILDFLOWER SHOW.** View a wide variety of coastal to mountain Lane County flora, natural history exhibits, guided arboretum tours, house and garden plants for sale and food booths.

25 May, Sat. **FIELD TRIP** to recognise **NATIONAL WETLANDS MONTH** and wetland's diversity of flora and fauna. We will visit west Eugene wetlands at TNC Willow Creek Preserve with trip leader Ed Alverson. Depart from South Eugene High School parking lot corner of 19th and Patterson at 9am. Bring handlens, lunch and drink. For further information call John Koenig (935-7677).

8 June, Sat. **FIELD TRIP** to the north shore of Lookout Point Reservoir. We will be completing an inventory of plants along the north shore road in a variety of habitats including open rock outcrops, forested zones and riparian areas. Good opportunity to sharpen your plant keying skills and gain familiarity with both common and some uncommon plants of the Western Cascades. Depart from South Eugene High School parking lot corner of 19th and Patterson at 9:30am. Bring handlens, lunch and drink. Trip leader: Jenny Dimling (343-3242).

High Desert

11 May, Sat. **FIELD TRIP** to Fort Rock District of Deschutes National Forest. Depart from the Juniper Park parking lot (7th and NE Franklin in Bend) at 8:30 sharp. Both natural and prescribed burns will be visited. A dramatic change in the non-forested steppe areas bordering the east side of the National Forest will be seen. Easy hiking. Trip leader is Stu Garrett (389-6981 eves).

9 June, Sun. **FIELD TRIP** to Hatfield's High Desert Ranch. Depart from the Juniper Park parking lot (7th and NE Franklin in Bend) at 8:30 sharp. Doc and Connie Hatfield have invited us to tour their ranch 15 miles north of Brothers. They have practiced innovative ways of running cattle which are kinder and gentler on the land. Prescribed fire, juniper control, and riparian protection are only some of them. Easy hiking. Trip leader is Stu Garrett (389-6981 eves).

Mid-Columbia

1 May, Wed. **MEETING.** 7:30pm at the Mosier School. Keith chamberlain will do a slide program featuring "Plants of Boggy Habitats". Does anyone want to know where "Hickeyville Junction" is?

North Coast

9 May, Thurs. **MEETING.** 7pm at the State Office Building, 3600 Third St., Tillamook. Members will share up to five slides with the group.
FIELD TRIP --to be announced. For more informatin call Ron Exeter (842-4171).

Portland

- 5 May, Sun. **FIELD TRIP:** Easy half-day tour of Native Plant Garden at Clackamas Community College's John Innskeep Environmental Learning Center and the Recycling Center. Meet at 1pm at the Pauling Center in CCC, Oregon City. Take the Park Place exit (#10); head SE about 3.5 miles to CCC entrance (follow signs), left onto campus, keep right at yield sign to parking area on left (2nd drive is closest). Field Trip Guide will be Bob Misley of the Botany Department. For more info contact Nancy Fahey at 206-694-2902.
- 11 May, Sat. **FIELD TRIP:** This will be the first of several trips to McCord Creek to visit the diverse habitats there--home of several western Columbia River Gorge endemics. Bring Hitchcock and we will add to the plant list for McCord Creek. Leave at 8am from the SW corner of the K-Mart parking lot located at 122nd and Sandy. Field trip guide will be Charlene Holzwarth (284-3444).
- 14 May, Tue. **MEETING.** 7pm at First United Methodist Church, 1838 SW Jefferson St., Portland. Lois Kemp will be showing slides of native plants of Oregon.
- 18 May, Sat. **FIELD TRIP:** Visit the clackamas River area to see *Iris tenuis* (endemic to this drainage) and other native plants. Leave at 9am from the new Estacada Ranger Station. Guides will be George Jeffcott (639-9126) and Herb Armentrout (658-2751).
- 25-26-27 May
Memorial Day Weekend **FIELD TRIP:** Guided Tour and learning session on the flora of Southwestern Oregon. Meet each day at the Cave Junction Inn at the following times (Cave Junction is SW of Grants Pass on Oregon 199):
25 May---Meet at 1pm for a half day of botanizing.
26 May---Meet at 8am for visit to Bolan Lake area.
27 May---Meet at 8am for botanizing on the way back to Portland.
Guide will be George Lewis (for info. call (home) 760-2316 or (work) 796-7052). Rooms are available at the Cave Junction Inn and the Holiday Motel in Kerby.
- 1 June, Sat. **FIELD TRIP:** Lois Kemp will show slides of unusual plants of the Gorge between 10 and 12am at Leach Botanical Garden. She will also show how to identify plants using Hitchcock to key a weed species. Bring lunch to eat besides Johnson Creek. After lunch see fern propagation and more of the garden. Meet 10am at the garden's Manor House, located at 6704 SE 122nd Avenue, south of Foster. Park south of the bridge. For info., call Charlene Holzwarth (384-3444).
- 9 June, Sun **FIELD TRIP:** Join Del Blackburn of Clark College when he leads his botany students to Gumboot Bog in the Gifford Pinchot National Forest. Leave at 9:30am from the 134th St. Park and Ride off of I-5 North of Vancouver, Wa., or at 11am at Sunset Campground on the Lewis River. For information call Nancy Fahey (206-694-2902).
- 15 June, Sat. **FIELD TRIP:** Carroll DuBuar will lead a joint NPSO-Friends of the Columbia River Gorge moderate 6.5 mile hike along the Pacific Crest Trail. The route will pass Gillette Lake and go to Greenleaf Basin Overlook. Leave at 8:30am from the DOT parking lot at 60th and Glisan, Or at 9:30am at the trailhead, across Washington State Highway 14 from Donneville Dam (2 miles west of the north end of the Bridge of the Gods). Leader is Carroll DuBuar (234-4135).
- 28-30 June **CONFERENCE WITH FIELD TRIPS:** Jointly sponsored by the Portland Chapter NPSO, Leach Botanical Garden, Berry Botanic Garden and Hoyt Arboretum. The theme is "Nature in the Garden" and "The Garden in Nature". Registration fee is \$75.
- ## Siskiyou
- 9 May, Thurs. **MEETING.** 7:30pm in Room 171 of the Science Building at Southern Oregon State College. Ray Prag from Forest Farms will speak on landscaping with native plants.
- 11 May., Sat. **FIELD TRIP:** Lyman Creek/Doe Hollow Botanical Area. Barbara Mumblo will lead a field trip to a low elevation botanical area on the Applegate Ranger District. This is an easy trip in the botanical area and possibly around Squaw Lake. Leave from Star Ranger Station at 9:30am. For information call Barbara Mumblo 899-1812.
- 25 May., Sat. **FIELD TRIP:** Rainy Falls along the Rogue River. Leave at 9am from the Food 4 Less lot in Medford or at 9:45am from the Siskiyou National Forest Supervisor's Office (at the North Grants Pass Exit on I-5, turn right at stop sign, then another quick right onto Greenfield Road, Driveway on left). For information call Barbara Mumblo 899-1812.

9 June, Sun.

FIELD TRIP: Babyfoot Lake and proposed Howell Memorial Drive. Anita Seda, botanist for the Illinois Valley Ranger District will lead us to Babyfoot Lake, Fiddler Mountain, and the proposed Howell Memorial Drive. Plants we'll see are *Draba howellii*, *Fritillaria glauca*, Brewer's spruce, and *Lewisia cotyledon* var. *purdyi*. Leave at 8am from the Food 4 Less lot in Medford, at 8:45am from the Grants Pass BiMart or Selma Market at 9:30am. Contact Anita Seda (592-2166) for more information.

Umpqua Valley

9 May., Thurs.

MEETING. Frank Callahan will present a *Calochortus* species update. 7pm in Room 310, Douglas County Courthouse Auditorium, Roseburg. Frank will lead a field trip on to see *Calochortus* the following Saturday. For more information call Mary Carlson (672-3479).

11 May, Sat.

Field Trip. Look for ferns in rock, field and forest, especially *Pellaea andromedaefolia* and *Polystichum californicum*. Meet 7:45 am BLM parking lot, 777 Garden Valley Road for carpooling, leave 8 am. Coordinator, 673-3709.

8 Jun., Sat.

Field Trip. This is a good time to look for *Calochortus umpquaenses* in its habitat from river to 2000' elevation. Meet 7:45 am BLM parking lot, 777 Garden Valley Road for carpooling, leave 8 am. Coordinator, 673-3709.

13 Jun., Thur.

MEETING. NE US alpine flora by Peter Zika. 7pm Room 310 Douglas County Courthouse, Roseburg. For more information call Russ Holmes (672-4635).

Willamette Valley

18 May, Sat.

FIELD TRIP. Elaine Joyner will give a guided tour of the Willamette University Botanical Garden. Meet at 10am in front of Sparks Center on the Willamette University Campus.

20 May, Mon.

MEETING. 7pm at First United Methodist Church, Room 225, 600 State St., Salem.

William Cusick

For information, contact Paula Brooks (523-7564).

NEW OFFICERS FOR THE PORTLAND CHAPTER

PRESIDENT: Michael D. Fahey

FIRST VICE PRESIDENT: David Dobak

SECOND VICE PRESIDENT: Nancy Fahey

SECRETARY: Rosemary Kenney

TREASURER: Jean France

APOLOGY TO KRISTA THIE

We apologize to Krista for the error in the date of her field trip to Burdoin Mountain. We also apologize to those who met in Bingen to take this field trip.

---Mike Fahey

NEWS FROM THE THREATENED AND ENDANGERED PLANT COMMITTEE CHAIR

Hi! I am indeed alive, and a T&E program may be lurching slowly forward. At the suggestion of Rhoda Love and Esther McEvoy, I have drawn a map outlining boundaries for the Threatened and endangered Species responsibilities of each of the chapters. This map is a first draft, is totally non-binding, and has nothing to do with the legal organization or boundaries of the state chapters. It is just an attempt to help local chapters get organized, and to divide up a very diverse state.

The boundaries were drawn on county lines, which conveniently follow watershed boundaries throughout much of the state. Whenever possible, I have stayed on these county lines, because the T&E data is organized by county in the database, and is easily retrieved. Occasionally, I followed major roads (like State Highways 395 and US 97). This process has created some unnatural situations, such as southern Grant County being in the Blue Mtn. Chapter, but this is only for organizational purposes, and this is our first draft. Send comments to Jimmy Kagan, Oregon Natural Heritage Program, 1205 NW 25th Ave., Portland, Or 97210.

While complete lists of plants within each chapter (T&E and otherwise) is an overall goal, in the short term I'd like each chapter organize a few field trips or have a T&E committee responsible for monitoring the three or four most endangered plants in their area, and to attempt to assess the status of at least two view list species in their area each year. This way we can make some steady progress. If this approach seems reasonable, I will send a list of all the state listed and high priority T&E plants in the chapter areas to the chapter presidents, as well as a list containing five or six review list species needing inventory. Sighting locations and maps for all known locations will be included.

I am still working on the 1991 update of "Rare, Threatened and Endangered Plants and Animals of Oregon". Due to major revisions and time involved, I may not be able to provide the leadership many of you needed or expected. Carolyn Wright was kind enough to volunteer to assist me with questions that the east-side chapters may have. I

am still looking for a way to divide responsibility for the west-side chapters.

Good luck with your rare plant hunts this season. Contact me at the Heritage Program (address above) or your chapter president for more information. --Jimmy Kagan, T&E Committee

CONTRACT ANNOUNCEMENT FOR *ASTRAGALUS PECKII* NPSO/BLM PROJECT

The Mid-Columbia Chapter of NPSO and Prineville District of the BLM have agreed upon a Challenge Cost Share Project for 1991. This will result in \$600 to be used for inventorying populations of *Astragalus peckii* in a 4400 acre Area of Critical Environmental Concern (ACEC) near Tumalo.

Our format is flexible.....so make us an offer! The inventory should ideally be done in June. It could involve several consecutive days or be spread out over weekends. The \$600 can be paid on an hourly or daily basis with respect to the number of acres covered. It could also be designated as reimbursement for expenses like gas mileage. Only a portion of the 4400 acres could be expected to be inventoried considering this funding level. Thus specific section(s) of the ACE will be agreed upon by the selected contractor and Ron Halvorson of BLM. The Mid-Columbia Chapter would like to select a contractor as quickly as possible. The Mid-Columbia Chapter will also be responsible for administering the payment at completion of or through duration of the project. A degree in botany is not a requirement. However, the individual must have good working plant identification skills and be able to use topographical maps. BLM will provide any materials necessary. They advise that camping in the area is both possible and reasonable.

If you are interested and want more details, contact Susan Gabay immediately, at 478-3576 (eves) or 296-4661 (days), or by mail, Box 151, Mosier Or. 97040. You can also contact Ron Halvorson at the Prineville BLM District Office at 447-4115.

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A PESTY WEED AND A BOTANICAL JOKE

Carl Linnaeus (1707-1778) was the greatest Swedish naturalist of the 18th Century. By his genius, voluminous publications, and strength of personality, he completely reformed the science of taxonomy (the description and classification of organisms), and he initiated the system of generic and specific names which continues to be used today for all the world's flora and fauna. Linnaeus was a complex, controversial man. As a prodigy who outshone his contemporaries, he was both admired and envied; his writings have a dominating and authoritative tone to them, clearly implying "I know best, and I make the rules!" In retrospect, this selfconfidence was justified, since his contributions to classification--including his binomial system of generic and specific names, his standardized methods for describing plants and animals, and his principle that names be uniform and universal--have dominated taxonomy ever since.

Could Carl Linnaeus, who obviously took himself very seriously, also have been a man with a sense of humor? In the literature of Latin plant names there are numerous subtle "botanical jokes," where taxonomists have shown their cleverness by inventing names with double meanings, bilingual puns, anagrams, and humorous references to fellow scientists. I want to describe here a case where Linnaeus himself may have done such a trick, involving the generic name for a vulgar, pesty weed--the common cat's-ear or false-dandelion.

In 1753, on page 810 of his great work Species Plantarum, Linnaeus assigned the generic name *Hypochaeris* to cat's-ear. The best known species in Oregon is *H. radicata*, an introduced European weed which, like the common dandelion, infests lawns and waste places everywhere. In 1754, just a year later, Linnaeus published the 5th edition of his companion book Genera Plantarum, giving descriptions of the genera he had only mentioned by name in Species Plantarum. On page 352, he spells the

name of cat's-ear as *Hypochoeris*---substituting -oe for the previous diphthong -ae. What is the significance of this minor change of spelling? For one thing, it created endless confusion for later taxonomists, because only one spelling of a generic name can be correct, but how can we know which spelling Linnaeus really preferred? Did he purposely spell it differently, or was the second spelling only a "slip of the pen"? Prior to Linnaeus, the spelling had always been *Hypochaeris*.. However, the two books Species Plantarum (1753) and Genera Plantarum (1754) are the official starting points for botanical nomenclature; we must accept the spelling by Linnaeus--but which one?

As examples of the persistently confused spelling, I have copied four recent reference books on western American flora--by the authors Arthur Cronquist, Morton Peck, Philip Munz, and LeRoy Abrams. They are equally divided, two and two, for the alternative spellings. Not until its 1988 edition did the International Code of Botanical Nomenclature give a definitive answer to this problem. Article 13.4 of the "Code" states: "The spelling of the

HYPOCHÆRIS.

1. HYPOCHÆRIS foliis dentatis, caule ramoso foliofo, calycibus hispida. †
Hypochæris hieracii barbati folio, calyce hispido. *Vaill. arb.* 1721. p. 215.
Hieracium alpinum, dentis leonis folio acuto piloso prosciflo, capitulis pungenti lanugine obsitis. *Cup. catb.* 95. *Raj. suppl.* 146.
Habitat in Sicilia.
Calycis squamæ asperæ spinulis pungentibus.

352 SYNGENESIA POLYGAMIA ÆQUALIS.

822. HYPOCHOERIS. * 1711. *Vaill. A. G.* 28.
 21. Achyrophorus *Vaill. A. G.* 1721. 52. 28.
13. 21. 18.

Fig. 1. The two spellings by Linnaeus:
Top, Species Plantarum, ed. 1, 1753;
bottom, Genera Plantarum, ed. 5, 1754.

generic names included in the Species Plantarum ed. 1 is not to be altered because a different spelling has been used in the Genera Plantarum ed. 5." Eureka! The correct spelling must be *Hypochaeris*.

Curious to know if there was a difference in meaning between *Hypochaeris* and *Hypochoeris*, I looked for their original Greek derivations in the excellent reference book Composition of Scientific Words, by Roland W. Brown. "Hypo-" is a familiar prefix used in many modern English words and meaning "under" or "less than." Dictionary examples are hypodermic, hypothermia, and hypothesis. The Latin "-chaeris" comes from the Greek word *chairo*, "to rejoice." How appropriate, therefore, that the name *Hypochaeris*, an unattractive and unwanted weed, translates as "less than joyous." But what might be the meaning of Linnaeus' other spelling, *Hypochoeris*? In Latin, "-choeris" derives from the Greek word *choiros*, meaning "pig." Thus, *Hypochoeris* may translate as "under pigs." Yet perhaps this was Linnaeus' little botanical joke, a subtle yet appropriate play on words, in which this unattractive weed (providing "little joy" to humans) is to be renamed, using barnyard analogy, as a plant best suited to having pigs lie on it. This might well be the ultimate botanical put-down.

The American-style pronunciation of this genus name, whichever way it is spelled, is "high-pokee'-riss," with the accent on the long-e. Many English words coming from Latin ones with an -ae diphthong have dropped the "a" and are pronounced as long-e; examples are demon, equal, predict, and sphere.

Ken Chambers,
Corvallis Chapter

**NPSO 1991 ANNUAL MEETING,
JUNE 14-16: MONTHLY UPDATE
REGISTRATION DEADLINE
MAY 1ST.**

With a bit over a month to go, Emerald Chapter in Eugene, under the direction of Charlene Simpson, Annual Meeting Chair, is putting the final touches on NPSO's big 30th Birthday Annual Meeting. Dates are Friday, Saturday and Sunday, June 14, 15 and 16. Registration materials appeared in your March and April Bulletins. If you forgot to fill yours out and send your check last month, do this at once. Deadline for registration is May 1. If you have registration questions, call Evelyn Everett, 345-1746. If you have questions about the field trips, call John Koenig, 935-7677. A schedule of annual meeting events with times and places appeared in the April Bulletin; annual meeting participants will receive an updated schedule when they register. Each chapter is asked to bring a poster illustrating one or more chapter activities. Easels will be provided. Emerald Chapter's poster will illustrate how Federally-listed *Lomatium bradshawii* at Buford Park was fenced to exclude cattle. Jerry Igo, of Mid-Columbia will present a video of chapter activities. Posters will be displayed on Saturday night, June 15, before the banquet. Questions about posters? Call Rhoda Love, 345-6241. General Annual Meeting Questions? Call Charlene Simpson, 465-1059. See you at our 30th Birthday Party!

Hypochaeris L. Cats-ear

Similar to *Leontodon*, from which it is distinguished primarily by its chaffy-bracted recep; our spp. European weeds with some or all of the achenes long-beaked, intro chiefly W Cas, fl May-Oct. (Name used by Theophrastus for this or some other cichorioid genus).

89. HYPOCHAERIS L.

Perennial or annual herbs, the leaves mostly in a basal rosette; inflorescence paniculately branched, the heads medium sized or large; bracts of the involucre imbricated in several series; flowers yellow subtended by chaffy bracts; akenes 10-ribbed, mostly distinctly beaked; pappus a row of brownish plumose bristles, or sometimes with a smaller outer row.

170. Hypochoeris L. CAT'S EAR

Annual or perennial herbs with lvs. in radical rosette or cluster and naked stems bearing a solitary head or a somewhat corymbose cluster of long-peduncled heads. Fls. yellow. Invol. cylindric or campanulate, with rather few lanceolate erect imbricated phyllaries. Receptacle flat, the bracts scarious, chaffy, thin. Aks. glabrous, upwardly scabrous, the body 10-ribbed, narrow-oblong or fusiform, truncate or beaked. Pappus-bristles plumose or some of outer shorter and simple. Ca. 70 spp., 12 in Eu., the others S. Am. (Greek name used by Theophrastus for this or some other genus.)

166. HYPOCHOERIS L. Sp. Pl. 810. 1753.

Herbs with a basal tuft of leaves and bracteolate, usually branched, scapose stems. Involucres solitary at the ends of the scapose branches, oblong-cylindric to campanulate, the phyllaries in several series, herbaceous. Receptacle flat, chaffy. Ligules yellow. Achenes oblong to linear, 10-ribbed, constricted above or the outer truncate. Pappus of a single row of plumose bristles, or sometimes the outer ones shorter and not plumose.

Fig. 2. Spellings in (top to bottom):
Cronquist, Flora of the Pacific Northwest, 1973;
Peck, Manual of the Higher Plants of Oregon, 1961;
Munz, A California Flora, 1959;
Abrams, Illustrated Flora of the Pacific States, vol. 4, 1960

