



# NEVADA NATIVE PLANT SOCIETY

VOLUME 43 NUMBER 3 - APRIL 2017

## ***SOCIETY NEWS***

---

### **NORTHERN NEVADA EVENTS**

---

**April 6** – Arnold “Jerry” Tiehm, Herbarium Curator at UNR’s Museum of Natural History, will provide the program on 2016’s botanical surprises from northwestern Nevada.

Join our speakers before the meetings for dinner at 5:30 at **Great Full Gardens**, 555 South Virginia Street.

Meetings are in room 300G of the Fleischman Agriculture Building on the UNR campus, north of 9<sup>th</sup> Street and Evans Avenue.

Enter the building under the breezeway on the west side near the street. There’s an elevator at the east end of the building. Meet on the third floor and down the hall from the UNR herbarium.

Social time starts at 7:00 PM and the program starts at 7:30. The outside door will be automatically locked at 7:30.

**Parking is enforced in the lot on the SE corner of Evans and Record Way.** Parking passes and maps are available from the university – see [www.unr.edu/parking](http://www.unr.edu/parking) for more information.

---

### **SOUTHERN NEVADA EVENTS**

---

**April 3** – Corrin Floyd, Restoration Specialist with Great Basin Institute and Southern Nevada Office of BLM will present her talk entitled “Multi-agency effort to restore burned areas of Mojave Desert Tortoise Habitat.”

**May 3** – Mary Poelman, a recent graduate of the University of Wyoming, will present on her thesis “Investigation into the Long-term Persistence of Cultivars along a 30-year Restoration Chronosequence.”

**S**outhern Nevada Meetings are held in Henderson the first Monday of every month from 6:30-7:30 PM (unless otherwise noted when holidays fall on first Mondays) at the U.S. Geological Survey office at 160 North Stephanie Street.

Our program coordinator is Lesley DeFalco. If you would like email updates for Southern Nevada events, please email her at [defalco@usgs.gov](mailto:defalco@usgs.gov) and ask to be added to the list.

**Events subject to change.**  
**Visit [nvnp.org](http://nvnp.org) for updates.**

**Top:** Return of the monkies! *Erythranthe carsonensis* on Prison Hill in Carson City, April 2, 2017

---

## NORTHERN NEVADA FIELD TRIPS

---

**April 8 – Caughlin Ranch** area west side of Reno. We should have the opportunity to see Beckwith violets, and *Ranunculus glaberrimus* var. *glaberrimus*. Also found on this alluvial fan are *Astragalus purshii* var. *tinctus*, *Lewisia rediviva* var. *minor*, *Erigeron bloomeri* var. *bloomer*, *Eriogonum douglasii* var. *meridionale*, *Allium parvum*, *Toxicoscordion venenosum*, *Lithophragma glabrum*, *Trifolium macrocephalum*, and several *Iomatiums*. Add *Delphinium andersonii* and *Fritillaria atropurpurea* to the list if we climb to base of the hills that skirt the fan.

We will not car pool for this trip since it is on the outskirts of Reno. We will start at 10:00 AM and meet at the intersection of Sierra Pine Drive and Pinehaven Road in Reno. Map to location: <https://goo.gl/maps/Gj8NSAyc45k> Contact John Weiser: [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.

**April 23 – Hot Spring Mountain.** The Carson Valley monkeyflower is blooming again! Join us for the second annual great monkeyflower hunt. This year we will be surveying the area on the east side of Hot Spring Mountain in northern Carson Valley.

Meet at in the northeast corner of the Target parking lot (910 Jacks Valley Road) at 10:00 AM. Contact Janel Johnson: [jdjohnson@heritage.nv.gov](mailto:jdjohnson@heritage.nv.gov), (775) 684-2911.

**May 6 – Deadman's Creek Trail.** The trail is located at the south east corner of Washoe State Park and winds its way up the drainage of Deadman's Creek to a scenic lookout atop the bluff. Along the slopes we should find riparian and steppe vegetative communities. Plants of interest include *Phlox diffusa*, *Ranunculus andersonii*, *Erigeron glacialis*, *Phacelia curvipes*, *Prunus andersonii*, and *Lupinus arbustus* to name a few.

There is a pull-off that can handle four or five vehicles at the trail head. Those who wish to carpool from Carson should meet at meet at the Save Mart at the corner of College and Carson Street in Carson City at 9:45 AM. Those wishing to carpool from Reno meet at the Doughboy's Donuts shop located in the South Town Shopping Center at 57 Damonte Ranch Parkway by 9:45 AM. We should be on site by 10:00 AM. Map to location: <https://goo.gl/maps/HE6kq7jUdvA2>. Contact John Weiser: [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.

**May 13 – Red Hill.** This unique location on the north edge of Reno supports populations of seven species of *erigonum* along with *Lewisia rediviva* var. *minor*, *Prunus andersonii*, *Minuartia nuttallii* var. *fragilis*, and *Allium parvum*. We hope to see early spring flowers on the slopes of altered andesite. There is plenty of parking on site.

Those who wish to carpool from Carson should meet at the Save Mart at the corner of College and Carson Street in Carson City at 9:30 AM. The destination is on the west end of Dandini Road in north Reno. Map to location: <https://goo.gl/maps/veoyMSzMWx22>. Contact John Weiser: [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.

**May 20 – East Walker River.** Tour the East Walker River from Rosachi Ranch to the future Walker River State Recreation Area. We will stop to see rare plants, upland areas, and the riparian corridor. This will be a long day with a lot of driving on dirt roads and vehicles must be able to cross a creek about 8 inches deep at Nine Mile Ranch.

Meet at the Carson City Save Mart at the corner of College and Carson Street at 9:00 AM. Bring food and water for a full day, we should be back to Carson City by 5:00 PM. Contact Janel Johnson: [jdjohnson@heritage.nv.gov](mailto:jdjohnson@heritage.nv.gov), (775) 684-2911.

**May 29 – Annual Memorial Day Foray** with Bill and Nancy Harnach along the Feather River in Plumas County, CA . Bill and Nancy



conduct this event for the local public so this will not be a typical NNPS field trip. The plan is to explore the newly designated Sierra Valley Preserve. The preserve's 2,500 acres includes channels of the Feather River's middle fork and offer a rich variety of habitats with wetland marshes, montane meadows, dune habitat, and upland areas with sagebrush and bitterbrush scrub. Spring wild flowers and native bunchgrasses abound.

Those traveling from the Carson area should meet at the Save Mart at the corner of College and Carson Street in Carson City at 7:50 AM to carpool. Drive to the McDonalds Restaurant located at 120 Lemon Drive in north Reno. Those traveling from Reno will meet at the Lemon Drive McDonalds at 9:00 AM to await the arrival of the southern contingent. We will leave the second meeting point at 9:15 AM traveling north on Hwy 395 to Hwy 70 (Quincy turnoff). We will then proceed west toward Beckwourth. **Contact Bill Harnach: [billh@digitalpath.net](mailto:billh@digitalpath.net), 530-944-3464 or John Weiser: [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.**

**June 2 to June 5 – Penstemon Annual Meeting** in Vernal, UT.

**June 3 – May Arboretum Society annual plant sale.** Join the Nevada Native Plant Society at the May Arboretum from 8:00 AM to noon. The arboretum is located in Rancho San Rafael Regional Park at 1595 North Sierra Street in Reno. The sale benefits the May Arboretum.

**June 10 – Churchill Narrows.** Join us to see *Eriogonum diatomaceum*, a rare endemic restricted to the diatomaceous deposits of the Churchill Narrows area in Lyon County. There are many other interesting plants to see growing on these unique soils including *Eriogonum lemmonii*, *Nama aretioides*, *Phacelia fremontii*, *Abronia turbinata*, *Eschscholzia minutiflora*, *Psoralea argophylla*, *Glyptopleura marginata*, and *Eriogonum heermannii* var. *humilius*.

Those leaving from Reno should meet at the Doughboy's Donuts shop in the South Town Shopping Center at 57 Damonte Ranch Parkway by 9:00 AM. We will meet Carson City area members at the Save Mart at the corner of College and Carson Street and depart for Churchill Narrows at 9:30 AM. Map to location: <https://goo.gl/maps/m3ZWIRtpzAJ2>. **Contact Gary Monroe: [g.monroe@att.net](mailto:g.monroe@att.net), (775) 359-4863 or John Weiser: [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.**

**June 17 – Sand Mountain.** This “singing” sand dune 20 miles (32 km) east of Fallon along U.S. Route 50 is the only home of the critically imperiled Sand Mountain blue butterfly. The ruins of the Pony Express, Sand Springs Station also located within the protected area. We will look for *Penstemon acuminatus* var. *latebracteatus*, *Astragalus lentiginosus* var. *kennedyi*, *Castilleja angustifolia* var. *flavescens*, *Cymopterus corrugatus*, *Chylisma claviformis* ssp. *integrior*, *Oenothera deltoidea* ssp. *piperi*, and a pink flowered form of *Castilleja chromosa*.

We will leave Carson and Reno as separate groups and meet in Fallon. Those traveling from Reno may meet at the parking lot on the north side of the Sparks Marina at located at 300 Howard Drive by 8:00 AM. Those traveling from Carson meet at the Save Mart at Save Mart at the corner of College and Carson Street by 8:00 AM. We will meet in Fallon at the Fox Peak Station on the east side of the city by 9:30 am. Map to the location: <https://goo.gl/maps/2axqxrK86Un>. **Contact Gary Monroe: [g.monroe@att.net](mailto:g.monroe@att.net), (775) 359-4863 or John Weiser: [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.**

**June 24 and June 25 – Treasure Hill/Hamilton.** Treasure Hill is a spur of the White Pine Range in White Pine County; the ghost town of Hamilton is located nearby. This area has terrain composed of limestone, so we should see a different group of plants than we normally see in western Nevada.

This will be an overnight trip, the drive from Reno/Carson will take 4½ to 5 hours on Highway 50. Camping is available at the BLM's Illipah Reservoir Campground, with 17 camp sites at an elevation of 6,840 feet. Reservations not required. The nearest cities are Eureka, 43 miles to the west, and Ely, 39 miles to the east. Both cities have hotels and motels. **Contact Charlene Duncan:** [cirsium.down@gmail.com](mailto:cirsium.down@gmail.com), (775) 530-7458.

### **July 2 – Summit of Peavine Mountain.**

The last time we had substantial snow on Peavine, the summit's wind-blown scree was a virtual rock garden on July 4th with *Phlox condensata*, *Boechera puberula*, *Lewisia rediviva* var. *minor*, *Phacelia linearis*, *Castilleja chromosa*, *Phacelia linearis*, *Erigeron aphanactis*, and *Astragalus purshii* var. *tinctus* simultaneously in full bloom. Hopefully this year will be similar.

Those traveling from the Carson area should meet at the Save Mart at the corner of College and Carson Streets in Carson City at 9:00 AM to carpool. Our final meeting place will be at the McDonalds Restaurant parking lot located at 120 Lemmon Drive in North Reno at 10:00 AM. After meeting up, we will carpool to Peavine. The road to the summit is generally a good one and four-wheel drive vehicles should not be required. **Contact John Weiser:** [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.

**July 15 – Pinenut Mountains.** Details TBA.

**July 21 to July 24 – Eriogonum Society meeting** in the Siskiyou Mountains.

**July 29 – Paige Meadows.** This interconnected series of five meadows ranging in elevation of 6,500 to 6,800 feet is above Tahoe City near the west shore of Lake Tahoe. Fields of camas lilies, buttercups, and bistort form massive carpets over most of the meadows.

Drive south on Highway 89 and turn right on Pine Avenue (approx. two miles south of Tahoe City). Go to Tahoe Park Heights Drive,

turn right and continue all the way to the top to Big Pine Drive (the middle of three roads at the top). Continue on Big Pine Drive, turning left onto Silvertip Drive and proceeding to the end of the road and park. The trail is half a mile straight ahead. The trail to the first meadow goes off to the right. Map to location: <https://goo.gl/maps/8H4o17Yp6dP2>. **Contact Gary Monroe:** [g.monroe@att.net](mailto:g.monroe@att.net), (775) 359-4863 or **John Weiser:** [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.

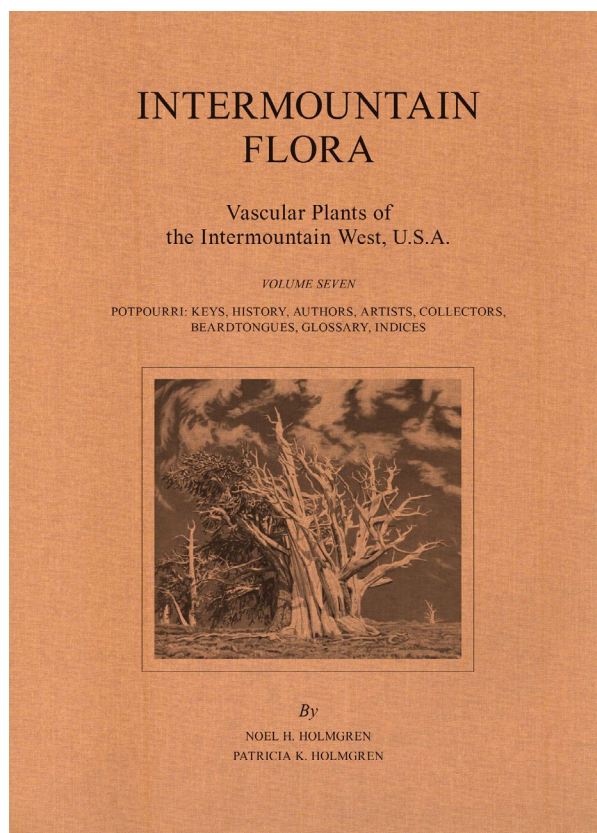
**August 6 – Buckaroo Chocolates and Ice Cream Parlor in Graeagle.** As summer's heat bears down upon us, our priorities shift and we visit this excellent ice cream shop. We'll also take a side trip to Madora Lake in Plumas County, CA to see *Chimaphila umbellata*, *Lilium washingtonianum*, *Pterospora andromedea*, *Platanthera dilatata* var. *leucostachys*, *Lilium pardalinum*, and other forest gems.

Meeting details will be posted in a later newsletter and are on the NNPS website. **Contact Gary Monroe:** [g.monroe@att.net](mailto:g.monroe@att.net), (775) 359-4863 or **John Weiser:** [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com), (775) 331-4485.

Check the **NNPS webpage** before field trips for changes and updates.

Several dates are open if you wish to schedule and lead a field trip. Field trips are normally held on Saturdays but can be done on other days of the week. Sundays are a good choice and consecutive trips on the same weekend are not out of consideration. We are always looking for new sights to visit - lead us to your favorites. **Contact John Weiser at** [johnpweiser@yahoo.com](mailto:johnpweiser@yahoo.com) or (775) 331-4485 if you have questions or suggestions.

**Bring lunch, hiking gear, appropriate clothing, wide brimmed hat, sunscreen, insect repellent, plenty of water and don't forget your hand lens and camera.**



## THE FINALE

**Intermountain Flora. Vascular Plants of the Intermountain West, U.S.A., Volume seven. Potpourri: keys, authors, artists, collectors, beardtongues, glossary, indices.** By Noel H. Holmgren and Patricia K. Holmgren. New York Botanical Garden, Bronx, NY. 303 pp. \$119.

*Review by Arnold Tiehm*

This is the ninth physical and final volume in the *Intermountain Flora series*. The previous eight volumes have been reviewed in this newsletter and the reviews are located in the following newsletters: Volume 1- 3(9): 3-5; Volume 2a – 38(8): 5-7; Volume 2b – 31(7): 2-3; Volume 3a – 23(6): 4-6; Volume 3b – 16(1): 6, 16(2): 4-5; Volume 4 – 10(4): 2-3; Volume 5 – 20(8): 5-6; Volume 6 – 3(9): 3-5.

Inside the back cover is the usual pair of maps showing the spatial extent of the *Intermountain Flora* region. One of the maps

shows counties while the other shows floristic divisions and sections. Inside the front cover are two lists that everyone who uses *Intermountain Flora* will find quite useful. The first is a list of the previous 8 volumes and the families they contain in phylogenetic order. The second is an alphabetical list of the 149 families represented in *Intermountain Flora* with a reference to which volume they appear within and which page(s) they encompass. I am sure that anyone who uses *Intermountain Flora* will make a copy of the second list for easy reference. As a matter of fact I have an electronic version so if anyone wants a copy let me know at [atiehm@att.net](mailto:atiehm@att.net) and I'll send you one.

After eight pages of introductory matters and extensive acknowledgements, chapter one is a "Key to families represented in *Intermountain Flora*." The keys encompass 16 groups spread out over 46 pages. I like how the groups are divided by more than just technical botanical characters as they have headings such as "Trees in flower," "Trees in fruit," and "Plants of unusual specialized vegetative or floral structure." The thoroughness of the keys can be seen in the number of couplets used to identify 149 families. My count of family end points is 745. Diverse families have numerous entries as *Polygonaceae* comes out 10 times, *Rosaceae* 31 times, and *Scrophulariaceae* 14 times. I always like to run "odd balls" such as *Cercocarpus* in the *Rosaceae* and *Glaux* in the *Primulaceae* through keys. Neither plant has petals and are members of families that predominately have petals. In both cases they keyed out promptly.

Next comes a chapter entitled "Authors, list of families, dates of publication." You know, the technical stuff when needing to site authorship of a family or volume. Then we hit the fun stuff. Chapter 3, "History of the *Intermountain Flora* project," gives a rundown from the conception of the project by Bassett Maguire in the 1930s to the completion of the project with the publication at hand. Next comes chapter 4, "Writing *Intermountain Flora*: When and who." Here is a discussion



of each volume including, as the title states, when and who. This chapter also includes biographies of the principal authors, A.H. Holmgren, A. Cronquist, R.C. Barneby, N.H. Holmgren, J.L. Reveal, and P.K. Holmgren. Both of these chapters are enhanced by numerous photos of the authors taken at various life stages and settings.

Chapter 5 is dedicated to the “Artists” who provided the wonderful line drawings that illustrate the entire *Intermountain Flora* series. Here are photos of twenty artists along with biographies of Jeanne Janish and Bobbi Angell. Jeanne and Bobbi’s scientifically accurate and exquisite illustrations accounted for 68% of the illustrations used in *Intermountain Flora*. Did you know that every species included in the *Intermountain Flora* is illustrated?

Chapter six is entitled “Plant collectors of the Intermountain West.” Here is a marvelous gallery of photos of 353 botanists who have collected in the Intermountain Region. Chronologically they run from Wyeth, who collected in 1833, to present day botanists. Also included here is a biography of yours truly.

Chapter seven is 37 pages of updates to the *Penstemon* treatment in *Intermountain Flora* volume 4 (Holmgren, 1984). The 1984 treatment contained 104 species and the current total is 119. Part of this increase is due to 7 species being described as new to science. There are also varieties that have been raised to specific rank, varieties that have been described as new, and species from bordering areas that have been found in the Intermountain Region. All of these changes are included in updated keys — both artificial and technical keys as in the original volume — with the new taxa inserted into the 1984 numbering system using a’s or b’s as a suffix. It is great to see all of this new information in standalone keys instead of giving us couplets that would refer to the 1984 keys. After many of the technical descriptions of these additions are discussions which vary from why species are now being recognized (*decurvus*),

where collections within the Intermountain Region were made (*yampaensis*), to how new species were discovered (*gibbensii*, *idahoensis*, *floribundus*, *pinorum*, and *tiehmii*).

Chapter eight is “Geographic boundaries of *Intermountain Flora*.” This is a reprinting of part of the introduction from volume 1 (Cronquist, 1972). The latter part of volume 7 contains a list of general references and online resources, a glossary, nomenclatural innovations, typifications and chromosome data, an index to people whose photographs appear throughout *Intermountain Flora*, and a cumulative index for all 9 volumes.

What is remarkable is the sense of history that is infused in all of the above. I know of no other flora that has documented its life history in such detail and personal remembrances. When histories of previous floras, or botanists for that matter, have been written it is through the use of correspondence that most of the pertinent facts have come to life. In this history archival material is cited but this is only from the earlier years. We now correspond by email and certainly do not save or print many of them. As such, much pertinent information is lost to posterity. It is notable that no one has written a long treatise about Cronquist. This is probably due to his leaving instructions with his secretary that if anything happened to him she was to dispose of his correspondence and this she dutifully did. I am sure there was information in those files that would have been included in this history. All of this makes this history more remarkable as it was written by the sole surviving authors, one of whom is the son of one of the originators of the *Flora*, who include not only the facts but a myriad of anecdotes, stories, and remembrances, all done with a personal touch and in a kindred spirit.

Lastly, the plate of the Intermountain bristlecone pine, an oil painting by Tony King selected to adorn the final volume aptly ties back to the first volume in the series. However, additionally it symbolically portrays the fortitude, brilliance, and tree of

life effort needed to grow and complete the *Intermountain Flora* project.

## LITERATURE CITED

Cronquist, A. 1972. Introduction, pp. 1-9.  
In: A. Cronquist, A.H. Holmgren, N.H. Holmgren & J.L. Reveal. *Intermountain Flora* 1: 1-270. Hafner Publishing Co., New York, NY.

Holmgren, N.H. 1984. *Penstemon*, pp. 370-455. In: A. Cronquist, A.H. Holmgren, N.H. Holmgren, J.L. Reveal & P.K. Holmgren. *Intermountain Flora* 4: 1-573. New York Botanical Garden, Bronx, NY.



Indian ricegrass (*Achnatherum hymenoides*), Nevada's official state grass.

---

## KEY TO GRASSES OF NORTHERN CALIFORNIA AND NORTHWESTERN NEVADA

---

Members may be interested in the newly released ***Identification Key to the Grasses of Northern California and Northwestern Nevada***, a tool for identifying all grasses known to occur in California from Lake and Placer counties and north and in Washoe and Humboldt counties in Nevada. Written by the Carex Working Group, known for their work on sedges and grasses, the key provides the common and scientific names (with authors) for each species. Names used in both the Jepson Manual (version 2) and *Flora of North America* are provided where they differ. The booklet also includes illustrations of basic grass morphology, a glossary, and recommended resources for grass identification.

Prices for a single copy are:

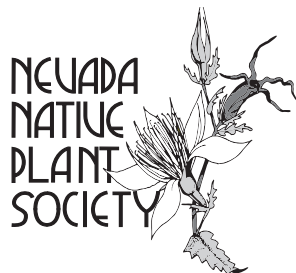
- Hard copy - \$20 + \$7 shipping and handling
- Hard copy plus PDF for personal use, \$35, shipping and handling included
- PDF alone, for personal use, \$10

Agencies wanting a multi-use license should contact us for a price.

To order, contact the Carex Working Group, [cwg@peak.org](mailto:cwg@peak.org), or 541-760-1311.

Nevada Native Plant Society  
PO Box 8965  
Reno NV 89507-8965

RETURN SERVICE REQUESTED



#### MEMBERSHIP APPLICATION

Name\_\_\_\_\_

Phone\_\_\_\_\_

Mailing Address\_\_\_\_\_

City\_\_\_\_\_ State\_\_\_\_\_ Zip\_\_\_\_\_

Email\_\_\_\_\_ ☐ Renewal

Newsletter preference: ☐ Paper ☐ Electronic

- |   |          |  |
|---|----------|--|
| • Individual, family or group for one year .....    | \$20.00  | Dues are for the calendar year in which you join. Membership expiration dates are on the mailing labels. |
| • Individual, family or group for three years ..... | \$50.00  |  |
| • Student or senior citizen, each year .....        | \$15.00  |  |
| • Life membership .....                             | \$500.00 |  |

Gifts, and bequests are tax deductible.

Your donation in any amount is appreciated \$\_\_\_\_\_

Please make checks payable and mail to: NNPS • P.O. Box 8965 • Reno, NV 89507