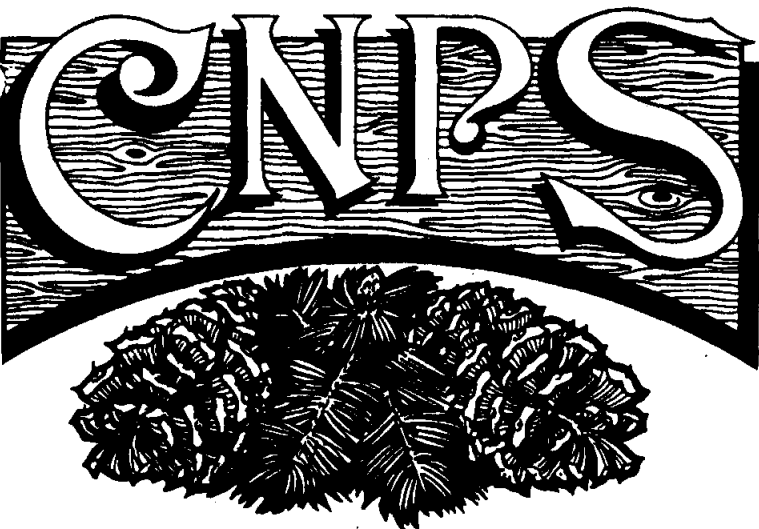


BRISTLECONE • CHAPTER



NEWSLETTER

Vol. 4, No. ⁴2

July 1985

NEXT MEETING

Wednesday, September 25, 6:30 p.m.,
at the Baptist Church Social Hall at
Wall Street and Highway 395, Independence. It will begin with a potluck dinner. Coffee, tea and dessert will be furnished. The program will be a double-screen slide presentation by Mary DeDecker.

PRESIDENT'S MESSAGE:

When the thermometer tops 100°, come to the almost empty high country of the White Mountains up beyond Schulman Grove. There you will find sweeps of sages and grasses where nothing but sky, mountain bluebirds and hawks are overhead. The road is not paved beyond Schulman, but, oh, what views!

....Doris Fredendall

FIELD TRIP REPORTS

SILVER CANYON, WHITE MOUNTAINS.

A delightful day was spent in Silver Canyon on the June 15 field trip. Leader Doris Fredendall had prepared a plant checklist which enabled us to identify a great number of species in the limited time. The 5-mile route crisscrossed the stream as it took us from 4500 feet to the foot of the switchbacks at about 6500 feet. The list included riparian plants as well as those of the dry canyon slopes. The high point of the day was the discovery of coralroot, Corallorhiza maculata, under the birches along the stream. It is a new addition to the White Mountain flora. A pleasant social hour was spent in the shade of a pinyon tree, thanks to Ray Moser who selected and cleared the spot.

BISHOP CREEK.

A refreshing spring day was enjoyed July 13 when we visited the subalpine lakes high on the forks of Bishop Creek. The flowers were at their peak. At Lake Sabrina on the middle fork, we walked about 3/4 mile along the Blue Lake trail where there were both dry and wet habitats. From there we traveled to South Lake on the south fork, where we had lunch under the lodgepole pines. The walk there was mostly along wet habitats, lush green with a wealth of blooms. (See the plant list in this issue.) On our return to Bishop we had a creative salad potluck at the home of Pat and Jack Crowther, followed by a fine slide show. That made a perfect ending to a beautiful day. Appreciation goes to the Crowthers who planned it all.

POSSIBLE RANGE EXTENSIONS

<i>Dicentra uniflora</i> Steer's head (Papaveraceae)	Piute Pass trail, north fork of Bishop Creek, Loch Leven Lake, 10,744 feet, and also above Piute Lake, 10,900 feet. Reported by Pat and Jack Crowther.
<i>Draba praealta</i> Dana draba. (Brassicaceae)	Above South Lake, south fork drainage, on pipeline to Brown Lake, 10,000 feet. Reported by Pat and Jack Crowther.
<i>Larrea tridentata</i> Creosote bush. (Zygophyllaceae)	Chalfant Valley on slope of White Mountains, sw. of Sacramento Mine, in SW $\frac{1}{4}$ Section 3, T 5 S, R 33 E, MDM, Mono County, 4700 feet. Reported by James Wilson.
<i>Mentzelia torreyi</i> Lava mentzelia. (Loasaceae)	Owens Valley, between Calvert Slough and the Los Angeles Aqueduct Intake, in W $\frac{1}{2}$ Section 24, T 11 S, R 34 E, MDM, 3832 feet. Reported by Mary DeDecker.

* * * * *

IN REMEMBRANCE

We are sad to report the tragic death of Willard (Bill) Grate, 25, of Independence. He was a gifted young engineer, employed by Inyo County, one who appreciated environmental values. He was killed instantly in a highway accident north of Independence, when another vehicle crossed the line and hit his head-on. He didn't have a chance. He leaves his wife, Donna, a member of the Bristlecone Chapter, CNPS.

Those who enjoyed a short acquaintance with Carol Holeuffer on the Argus-Coso field trip will share our sadness over her death on July 7. She did not survive a second liver and kidney transplant within a week at Baylor University Hospital in Dallas, Texas. A note from her mother reported, "Carol has gone on, after living a full and beautiful life." She told how much Carol had enjoyed the field trip. Carol had come to Owens Valley in the spring on a project for the Bancroft Library. She enjoyed it so much that she joined the Bristlecone Chapter. Her home was in Lafayette.

* * * * *

GOOD NEWS

Doris Fredendall is happy to report that water is again flowing into the watering trough at Toll House Springs. (See Vol. 4, No. 2) It is mostly due to her persistence and Ray Moser's support that the place can be enjoyed once more by desert travelers. The white dolomite boulder, from which the bronze plaque was stolen, has been moved to the road junction north of Big Pine, by the tall Sequoia. There a new historical plaque, installed by E. Clampus Vitus, tells the story. The responsible attendants at the Inyo County Campground across the road keep a watchful eye on it. This area just off the highway provides a favorite meeting place for field trips.

Plants noted on a
Bristlecone Chapter, CNPS,
field trip to LAKE SABRINA (9132 ft)
and SOUTH LAKE (9750 ft) on the north
and south forks of Bishop Creek. July 13, 1985.
Leaders: Pat and Jack Crowther.

CLUB LAKE FALL
1987

	<u>Lake Sabrina</u>	<u>South Lake</u>
ADIANTACEAE. Bracken Fern Family.		
<i>Cryptogramma crista</i> var. <i>acrostichoides</i> SY= <i>Cryptogramma acrostichoides</i> Rock-brake, parsley fern	x	x
<i>Pellaea breweri</i> Brewer cliff-brake		x
APIACEAE. Parsley or Carrot Family.		
<i>Angelica lineariloba</i> Sierra soda-straw, tall angelica	x	x
<i>Perideridia parishii</i> ssp. <i>latifolia</i> Parish yampa	x	x
<i>Sphenosciadium capitellatum</i> Ranger's buttons, woolly parsnip	x	x
ASTERACEAE. Sunflower Family.		
<i>Achillea millefolium</i> var. <i>alpicola</i> SY= <i>Achillea lanulosa</i> ssp. <i>alpicola</i> Yarrow	x	
<i>Antennaria alpina</i> var. <i>media</i> Match plant, alpine everlasting		x
<i>Antennaria microphylla</i> SY= <i>Antennaria rosea</i> Rosy everlasting	x	x
<i>Arnica mollis</i> Cordilleran arnica	x	x

	Lake Sabrina	South Lake
<i>Artemisia ludoviciana</i> ssp. <i>incompta</i> Western mugwort	x	x
<i>Artemisia tridentata</i> Big sagebrush	x	x
<i>Aster occidentalis</i> var. <i>occidentalis</i> Western mountain aster		x
<i>Chaenactis douglasii</i> var. <i>rubricaulis</i> Red stemmed pincushion	x	
<i>Chrysothamnus viscidiflorus</i> Curly-leaved rabbitbrush	x	
<i>Cirsium tioganum</i> Rosette thistle, Tioga thistle		x
<i>Dugaldia hoopesii</i> SY= <i>Helenium hoopesii</i> Hoopes dugaldia, tall helenium		x
<i>Eupatorium occidentale</i> Pink plume	x	x
<i>Haplopappus aparagioides</i> Golden aster		x
<i>Haplopappus peirsonii</i> Peirson gold		x
<i>Machaeranthera shastensis</i> var. <i>montana</i> Shasta aster	x	
<i>Senecio canus</i> Woolly butterweed	x	x
<i>Senecio integerrimus</i> Single-stemmed butterweed	x	
<i>Senecio pauciflorus</i> Orange butterweed		x
<i>Senecio triangularis</i> Arrow butterweed		x
<i>Solidago multiradiata</i> Alpine goldenrod	x	x
<i>Taraxacum officinale</i> Dandelion		x

BRASSICACEAE. Mustard Family.

<i>Arabis drummondii</i> Drummond rock-cress		x
<i>Arabis holboellii</i> var. <i>pinetorum</i> Holboell arched rock-cress		x
<i>Arabis holboellii</i> var. <i>retrofracta</i> Holboell reflexed rock-cress	x	x
<i>Arabis lemmonii</i> var. <i>lemmonii</i> Lemmon rock-cress		x

Arabis platysperma
Broad-podded rock-cress

x

x

Arabis repanda var. *greenei*
Broad-leaved rock-cress

x

Descurainia californica
California tansy mustard

x

x

Erysimum perenne
Mountain wallflower

x

x

CAPRIFOLIACEAE. Honeysuckle Family.

Sambucus caerulea
Blue elderberry

x

Symphoricarpos oreophilus
SY=*Symphoricarpos vaccinoides*
Mountain snowberry

x

x

CARYOPHYLLACEAE. Pink Family.

Arenaria macradenia ssp. *ferrisae*
Ferris sandwort, baby's breath

x

Sagina saginoides
Arctic pearlwort

x

Silene bernardina ssp. *maguirei*
SY=*Silene montana*
Maguire campion

x

x

Stellaria longipes
Creek stellaria

x

x

CORNACEAE. Dogwood Family.

Cornus sericea ssp. *sericea*
SY=*Cornus stolonifera*
American dogwood

x

CUPRESSACEAE. Cypress Family.

Juniperus occidentalis var. *australis*
Western juniper

x

CYPERACEAE. Sedge Family.

Carex aurea
Golden sedge

x

x

Carex rossii
Ross sedge

x

Carex spectabilis
Showy sedge

x

x

ERICACEAE. Heath Family.

Ledum glandulosum var. *californicum*
Labrador tea

x

	<u>Lake Sabrina</u>	<u>South Lake</u>
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Pterospora andromedea
Pine drops

x

FABACEAE. Pea Family.

Lotus corniculatus
Bird's-foot trefoil

x

Lupinus pratensis
Inyo meadow lupine

x

Trifolium monanthum
Carpet clover

x

x

FAGACEAE. Oak Family.

Castanopsis sempervirens
SY=*Chrysolepis sempervirens*
Bush chinquapin

x

HYDRYPHYLLACEAE. Waterleaf or Phacelia Family.

Phacelia frigida ssp. *dasyphylla*
Rock phacelia

x

x

IRIDACEAE. Iris Family.

Iris missouriensis
Wild iris

x

JUNCACEAE. Rush Family.

Juncus balticus
Wire grass

x

x

Luzula multiflora ssp. *comosa*
SY=*Luzula oresteria*, *Luzula comosa*
Common wood-rush

x

LAMIACEAE. Mint Family.

Monardella odoratissima
Pennyroyal, monardella

x

x

LILIACEAE. Lily Family.

Allium validum
Swamp onion

x

Lilium kelleyanum
Small tiger lily

x

x

Smilacina stellata
Star-flower

x

x

ONAGRACEAE. Evening Primrose Family.

Epilobium angustifolium
Fireweed

x

x

Epilobium halleanum
Hall willow-herb

x

	<u>Lake Sabrina</u>	<u>South Lake</u>
<i>Epilobium hornemannii</i> Baby buttons, purplish epilobium		x
<i>Epilobium oregonum</i> SY= <i>Epilobium exaltatum</i> Oregon epilobium		x
<i>Gayophytum racemosum</i> Reddish gayophytum	x	
ORCHIDACEAE. Orchid Family.		
<i>Platanthera dilatata</i> var. <i>leucostachys</i> SY= <i>Habenaria dilatata</i> var. <i>leucostachys</i> White rein orchid	x	x
<i>Platanthera sparsiflora</i> SY= <i>Habenaria sparsiflora</i> Green canyon orchid		x
PINACEAE. Pine Family.		
<i>Pinus albicaulis</i> White-bark pine		x
<i>Pinus contorta</i> var. <i>murrayana</i> Lodgepole pine	x	x
<i>Pinus flexilis</i> Limberpine	x	x
<i>Pinus monophylla</i> Pinyon		x
POACEAE. Grass Family.		
<i>Agrostis filicumis</i> SY= <i>Agrostis idahoensis</i> Idaho bent, purple mist		x
<i>Melica stricta</i> Rock melic	x	
<i>Muhlenbergia richardsonis</i> Mat muhly	x	
<i>Oryzopsis hymenoides</i> Indian rice grass	x	x
<i>Phleum alpinum</i> Mountain timothy		x
<i>Sitanion hystrix</i> Squirreltail	x	x
POLEMONIACEAE. Phlox Family.		
<i>Gilia aggregata</i> SY= <i>Ipomopsis aggregata</i> Skyrocket	x	
<i>Leptodactylon pungens</i> var. <i>pungens</i>	x	x

	<u>Lake Sabrina</u>	<u>South Lake</u>
SY= <i>Leptodactylon pungens</i> ssp. <i>pulchriflorum</i>		
Granite gilia		
<i>Linanthus nuttallii</i> ssp. <i>pubescens</i>	x	x
Bushy linanthus		
POLYGONACEAE. Buckwheat Family.		
<i>Eriogonum nudum</i> var. <i>deductum</i>		x
Nude buckwheat		
<i>Eriogonum umbellatum</i> var. <i>umbellatum</i>	x	x
Sulphur flower		
<i>Eriogonum wrightii</i> var. <i>subscaposum</i>	x	
Wright buckwheat		
<i>Rumex paucifolius</i> var. <i>paucifolius</i>	x	x
Mountain dock		
PRIMULACEAE. Primrose Family.		
<i>Dodecatheon jeffreyi</i>		x
Meadow shooting star, Jeffrey shooting star		
<i>Dodecatheon redolens</i>		x
Bog shooting star, aromatic shooting star		
RANUNCULACEAE. Buttercup Family.		
<i>Aconitum columbianum</i>		x
Monkshood		
<i>Aquilegia formosa</i>	x	x
Red columbine		
<i>Aquilegia pubescens</i>	x	x
Alpine columbine		
<i>Delphinium glaucum</i>	x	x
Tall larkspur		
<i>Thalictrum fendleri</i>	x	x
Tasseled meadow-rue		
RHAMNACEAE. Buckthorn Family.		
<i>Ceanothus velutinus</i>	x	
Tobacco bush		
ROSACEAE. Rose Family.		
<i>Cercocarpus ledifolius</i>	x	x
Mountain mahogany		
<i>Chamaebatiaria millefolium</i>	x	
Desert-sweet, fern bush		
<i>Holodiscus dumosus</i> var. <i>glabrescens</i>	x	x
Cream bush		
<i>Potentilla glandulosa</i> ssp. <i>nevadensis</i>	x	x
White potentilla		

	<u>Lake Sabrina</u>	<u>South Lake</u>
<i>Potentilla gracilis</i> var. <i>glabrata</i> SY= <i>Potentilla gracilis</i> ssp. <i>nuttallii</i> Slender cinquefoil	x	x
<i>Purshia tridentata</i> Bitterbrush	x	x
<i>Rosa woodsii</i> var. <i>ultramontana</i> Wild rose	x	x
RUBIACEAE. Madder Family.		
<i>Kelloggia galioides</i> Kellogia	x	
SALICACEAE. Willow Family.		
<i>Populus tremuloides</i> Quaking aspen	x	x
<i>Salix drummondiana</i> var. <i>subcoerulea</i> Blue willow	x	
<i>Salix eastwoodiae</i> Eastwood willow		x
<i>Salix lemmoni</i> Lemmon willow		x
<i>Salix orestra</i> Sierra Willow	x	
<i>Salix planifolia</i> ssp. <i>planifolia</i> Mono Willow		x
<i>Salix scouleriana</i> Nuttall Willow	x	x
SAXIFRAGACEAE. Saxifrage Family.		
<i>Heuchera rubescens</i> var. <i>alpicola</i> Alum root	x	
<i>Parnassia palustris</i> var. <i>californica</i> Grass-of-Parnassus		x
<i>Ribes cereum</i> Wax currant	x	x
<i>Ribes montigenum</i> Straggly Mountain gooseberry	x	x
<i>Saxifraga odontoloma</i> SY= <i>Saxifraga punctata</i> ssp. <i>arguta</i> Brook saxifrage		x
SCROPHULARIACEAE. Figwort or Snapdragon Family.		
<i>Castilleja applegatei</i> Wavy-leaved paintbrush	x	x
<i>Castilleja linariaefolia</i> Long-leaved paintbrush	x	

	<u>Lake Sabrina</u>	<u>South Lake</u>
<i>Castilleja miniata</i> Streamside paintbrush	x	x
<i>Keckiella rothrockii</i> Buckskin keckiella	x	x
<i>Mimulus breweri</i> Pink mimulus	x	
<i>Mimulus primuloides</i> Meadow mimulus	x	x
<i>Mimulus tilingii</i> Large monkeyflower	x	x
<i>Pedicularis attollens</i> Little elephant heads	x	x
<i>Penstemon heterodoxus</i> Whorlflower penstemon	x	x
<i>Penstemon laetus</i> ssp. <i>roezlii</i> Gay penstemon	x	
<i>Penstemon newberryi</i> Pride of the Mountains	x	x
<i>Penstemon papillatus</i> Big Pine penstemon		x
<i>Penstemon rostriflorus</i> SY= <i>Penstemon bridgesii</i> <i>Penstemon bridgesii</i>	x	x
SELAGINELLACEAE. Spike-moss Family.		
<i>Selaginella watsonii</i> Alpine moss-fern	x	x

* * * * *

COMING TRIPS

August 17-18: WHITE MOUNTAINS.

Meet Saturday at the Triangle Campground, the junction of Highway 395 and the turnoff to the Bristlecone Pine Forest, at 9:00 a.m. We will caravan, not to a reserved group campground as previously announced, but to the Grandview Campground on the White Mountain Road, 8500 feet. Camp spaces are not reserved, but there should be plenty for all. Be prepared for chilly evenings, and possible showers. High clearance vehicle are recommended, but not essential. The road is paved to the campground. Leaders: Mary and Paul DeDecker. (619) 878-2389.

September 14: ONION VALLEY.

Meet at 9:30 in the parking lot across the street (north) from the Independence Post Office. We will caravan to Onion Valley, paved all the way. Activities there will be tuned to the group. Onion Valley is beautiful any time of the year. Leader: To be announced.

ASTRAGALUS CLASS

The first session on May 25-26 provided a full week end of fun and learning. Saturday was spent in the Inyo Mountains, with an additional run over to Sand Springs in the upper Death Valley drainage. The trip to Fish Slough nnw. from Bishop on Sunday was less strenuous but of great interest. Two *Astragali* not in the California floras were found there. Fish Slough resembles Nevada's Ash Meadows with springs and pupfish ponds and a rich assemblage of high groundwater vegetation. The week end class found and keyed out about one fourth of the list of 47 species and varieties of *Astragali* for Inyo-Mono, including some rare ones. The second session, August 3-4, will visit higher elevations to find still different species.

We are happy to report that Fish Slough is doing well. A worrisome parcel of private land, a development threat, was acquired through a land exchange with BLM. That took an act of Congress. BLM has now designated Fish Slough as an Area of Critical Environmental Concern (ACEC). A joint management plan will be implemented by the Bureau of Land Management, California Department of Fish and Game, U.S. Fish and Wildlife, University of California, and Los Angeles Department of Water and Power.

AIR AND WATER

Air pollution remains an ever present problem. The critical sources are the white alkali surface of dry Owens Lake and the similar dry borders of Mono Lake, along with barren surfaces of the valley floor where even moderate winds pick up clouds of brown dust.

Under SB 270 the Los Angeles Department of Water and Power (DWP) is required to conduct air quality studies, mitigation studies, and actual mitigation projects. At the present time the DWP is working on vegetation studies at Mono Lake and hydrology studies at Owens Lake. It is typical of the differences in interpretation that the DWP considers these mitigation projects, while Inyo-Mono considers them mitigation studies. They will yield valuable data, of course. In the meantime, those who can see the dust clouds and who are breathing the dust will have to wait until their existence is proven by 3-year studies before any mitigation is begun.

The Great Basin Air Pollution Control District has been able to increase its monitoring stations from 6 to 9 sites. This is a strong step toward gathering the necessary data for enforcement.

Dust and water problems are so closely related that the issues become entangled. The Inyo-Los Angeles water agreement is now going through the testing stage. In Inyo its flaws are becoming apparent, but it appears that both parties are making an effort to keep it going. The mitigation measures, however, called for by the Appellate Court, are slow in coming. The political plums seem to be going through the complicated approval process better than measures which would actually mitigate the effects of water withdrawal. There is considerable concern over the fact that most mitigation projects would require additional wells. While this could provide more flexibility in management, there is fear that new wells may mean more water export. There is also the question as to whose share of water is to be used in each case. Each detail may become an issue for long and tedious debate. One dust abatement project is actually under way. Whether it satisfies an obligation under SB 270 or has been slipped in as a mitigation measure under the water agreement has not been clarified. It will, however, relieve the dust problem on the highway between Independence and Manzanar which has caused hours of delay for highway traffic, and caused serious pileups of vehicles. Of course native plants are affected by every decision. If plants could only speak!

NEW MEMBERS

We extend a friendly welcome to:

Adolph B. Amster
P.O. Box 1106
Ridgecrest, CA 93555

Sara Lee Baxter
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Bellflower, CA 90706

Rod and Judy Ditzler
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P.O. Box 236
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California Native Plant Society



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