

Lassen Volcanic National Park  
Mineral, California 96063

N22

September 22, 1969

Dr. John T. Howell  
California Academy of Sciences  
Golden Gate Park  
San Francisco, California 94118

Dear Dr. Howell:

Thank you for sending us a report of the field trip made by the California Botanical Club and the list of plants and birds observed.

It was a pleasure to meet you; I hope to see you more often in the future. Also, we are glad that you and your group were able to take advantage of several of the naturalist activities while in the park.

Sincerely yours,

John S. Mohlhenrich  
Chief Park Naturalist

cc:  
CPN  
Yellow  
JSMohlhenrich/me

LASSEN VOLCANIC NATIONAL PARK  
Research Library

California (Excursion)

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California Botanical Club  
Excursion to  
Lassen Volcanic National Park  
1969

The 1969 summer field trip of the club took thirty-three members and friends on a four-day outing to Lassen Volcanic National Park, August 4-7. Headquarters were established at Manzanita Lake Lodge and excursions were made along the Lassen Peak Highway and to the Butte Lake-Cinder Cone area in the northeastern part of the park. This is a summary of activities:

August 4. Arrive Manzanita Lake. Afternoon walk around Lily Pond Trail. Evening discussion of a collection of plants from Modoc Lava Beds.

August 5. Morning drive as far as Emerald Lake, with principal stops in Anklin Meadow (dry flats northwest of Devastated Area) and in very wet part of Dersch Meadows. Lunch in Lupine Camp. In afternoon joined Park Naturalist, Gary Fry, for walk in Dersch Meadows. Star-gazing in the evening at Manzanita Lake.

August 6. Most of morning spent walking around Emerald Lake. Lunch in picnic area at Lassen Chalet. Afternoon again with Gary Fry on naturalist conducted walk from King's Creek Meadows to Cold Boiling and Crumbaugh lakes.

August 7. In morning to Butte Lake, stopping en route

at lava beds to examine shrubbery. Two-hour walk from Butte Lake to foot of Cinder Cone. After lunch at Butte Lake, departed for home.

More than 220 kinds of plants and 39 kinds of birds were listed or noted. The plant list has been compiled from the field notes of Bud Fry, Margaret Williams, and Tom Howell; the bird list is by Bud Fry. The sequence in the plant list follows the order of families in "A Flora of Lassen Volcanic National Park" by G. W. Gillett, J. T. Howell, and H. Leschke (Wasmann Journal of Biology, vol. 19, pages 1-185, 1961), with genera and species alphabetical within each family. Two plants, Botrychium simplex and Pinus washoensis, are new records in the Lassen flora.

A superlative outing in a superlative setting!

J. T. Howell

#### Plant Catalogue

##### Families 1 - 4

- Cryptogramma crispa* var. *acrostichoides*. Parsley Fern.  
Emerald Lake.
- Cystopteris fragilis*. Fragile Fern.  
Dersch Meadows; Emerald Lake.
- Polystichum Kruckebergii*. Shield Fern.  
Dersch Meadows. Rare. [Segregate from *P. scopulinum*]
- Pteridium aquilinum* var. *pubescens*. Brake Fern.  
Anklin Meadows.
- Botrychium multifidum* var. *Coulteri*. Coulter's Grape Fern.  
Near Butte Lake.
- Botrychium simplex*. Little Grape Fern.  
Barbara Menzies' discovery in Dersch Meadows; first record for Park.
- Isoetes Bolanderi*. Bolander's Quillwort.  
Emerald Lake.
- Equisetum arvense*. Common Horsetail.  
Lassen Highway near Sulphur Works.

Families 5 and 6

- Abies concolor. White Fir.  
Lily Pond Trail.
- Abies magnifica. Red Fir.  
Lily Pond Trail; Dersch Meadows; Kings Creek Meadows;  
On a red fir in Dersch Meadows was an abnormal growth  
(a "Witch's broom") caused by the fungus Melampsorella  
Caryophyllacearum.
- Calocedrus decurrens. Incense Cedar.  
Lily Pond Trail and at lower elevations on roads into  
park.
- Juniperus occidentalis. Western Juniper.  
In coniferous forest on road to Butte Lake.
- Juniperus californica. California Juniper.  
In higher foothills on Redding road to park.
- Pinus albicaulis. White-bark Pine.  
Summit of Lassen Highway.
- Pinus contorta var. Murrayana. Lodgepole Pine.  
Lily Pond Trail; Dersch Meadows; Kings Creek Meadows; etc.
- Pinus jeffreyi. Jeffrey Pine.  
Lily Pond Trail; Kings Creek Meadows; Butte Lake; etc.
- Pinus lambertiana. Sugar Pine.  
Lily Pond Trail; Lassen Highway east of Manzanita Lake.
- Pinus monticola. Silver Pine; Western White Pine.  
Lily Pond Trail; Kings Creek Meadows; etc.
- Pinus ponderosa. Yellow Pine.  
Lily Pond Trail and at lower elevations on roads into  
park.
- Pinus washoensis. Washoe Pine.  
On trail from Butte Lake to Cinder Cone. This is the  
third known California station and a new plant record  
for the Lassen Park list. Determination verified by  
Dr. John R. Haller.
- Pseudotsuga menziesii. Douglas Fir.  
Lily Pond Trail; Lassen Highway near Sulphur Works; etc.
- Tsuga mertensiana. Mountain Hemlock.  
Lily Pond Trail; Dersch Meadows; summit of Lassen High-  
way; Emerald Lake.

Families 10 and 13

- Potamogeton amplifolius. Pondweed.  
Reflection Lake.
- Potamogeton praelongus. Pondweed.  
Manzanita Lake.
- Agrostis scabra. Tickle Grass.  
Manzanita Lake; Sulphur Works; Anklin Meadow.
- Danthonia californica var. americana. American Oat Grass.  
Dersch Meadows.
- Deschampsia caespitosa. Tufted Hair Grass.  
Dersch Meadows; Kings Creek Meadows; etc.
- Glyceria borealis. Manna Grass.  
Manzanita Lake.

*Hordeum brachyantherum*. Meadow Barley.  
 Dersch Meadows.  
*Muhlenbergia filiformis*.  
 Dersch Meadows; etc.  
*Phleum alpinum*. Alpine Timothy.  
 Dersch Meadows.  
*Poa annua*. Annual Bluegrass.  
 Manzanita Lake.  
*Sitanion hystrix*. Mountain Squirrel-tail.  
 Meadow borders and dry woods.  
*Stipa* -- many kinds. Needle Grasses.  
 Meadow borders and dry open forests.

#### Families 14 - 19

*Carex* -- many kinds, notably *C. Jepsonii* on border of Dersch  
 Meadows. At Emerald Lake, several species were in flower.  
 There are 54 kinds of *Carex* listed for the park.  
*Eleocharis bella*. Belly Sedge.  
 Dersch Meadows.  
*Scirpus Congdonii*. Congdon's Bulrush.  
 Kings Creek Meadow.  
*Lemna minor*. Duckweed.  
 Lily Pond.  
*Juncus balticus* var. *montanus*.  
 Near Butte Lake; Manzanita Lake.  
*Juncus Howellii*. Hy-own Rush!  
 Dersch Meadows.  
*Juncus nevadensis*.  
 Dersch Meadows.  
*Juncus Parryi*. Parry's Rush.  
 Butte Lake, edge of lava flow.  
*Luzula conosa*. Wood Rush.  
 Dersch Meadows.  
*Luzula divaricata*.  
 Emerald Lake.  
*Luzula subcongesta*.  
 Emerald Lake.  
*Allium campanulatum*.  
 Kings Creek Meadows.  
*Allium tribracteatum*.  
 Kings Creek Meadows. Common in dry gravel.  
*Calochortus nudus*.  
 Dersch Meadows.  
*Erythronium purpurascens*. Fawn Lily  
 Emerald Lake; Dersch Meadows; Kings Creek Meadows.  
*Lilium Kelleyanum*. Little Leopard Lily.  
 Kings Creek Meadows.  
*Onilacina racemosa*. Fat Solomon.  
 Dersch Meadows.  
*Veratrum californicum*. Corn Lily.  
 Dersch Meadows; Kings Creek Meadows; Emerald Lake.  
*Habenaria leucostachys*. White Rein-orchis.  
 Lassen Highway near Sulphur Works.

Families 20 - 26

- Populus tremuloides*. Trembling Aspen.  
Lassen Highway east of Manzanita Lake.
- Populus trichocarpa*. Black Cottonwood.  
Anklin Meadow.
- Salix lasiandra*. Yellow Willow.  
Lily Pond Trail; Anklin Meadow.
- Salix Scouleriana*. Scouler Willow.  
Lily Pond Trail; near Cinder Cone in open Jeffrey Pine forest; also on slope of Cinder Cone according to Virginia Hardham.
- Alnus tenuifolia*. Mountain Alder.  
Lily Pond Trail; etc.
- Castanopsis sempervirens*. Sierra Chinquapin.  
Dersch Meadows; Butte Lake; Lassen Highway; Lily Pond Trail.
- Quercus Kelloggii*. California Black Oak.  
Between Manzanita Lake and Viola.
- Arceuthobium americanum*. Pine Mistletoe.  
On Lodgepole Pine near Kings Creek Campground.
- Eriogonum marifolium*.  
Near Hat Lake; Emerald Lake; Butte Lake.
- Eriogonum nudum*.  
Butte Lake; Lily Pond Trail; Anklin Meadow.
- Eriogonum pyrolaeifolium*.  
Emerald Lake.
- Eriogonum spergulinum* var. *Reddingianum*.  
Anklin Meadow.
- Eriogonum umbellatum*. Sulphur Flower.  
Dersch Meadows.
- Eriogonum ursinum*.  
Lassen Highway near Diamond Peak.
- Polygonum amphibium*. Water Smartweed.  
Manzanita Lake; Butte Lake.
- Polygonum aviculare*.  
Manzanita Lake.
- Polygonum Davisiae*.  
Dersch Meadows; Kings Creek Meadows; Emerald Lake.
- Polygonum Kelloggii*.  
Dersch Meadows.

Families 28 - 30

- Calyptridium umbellatum*. Pussy Paws.  
Dersch Meadows; Kings Creek Meadows; Butte Lake.
- Claytonia lanceolata* var. *sessilifolia*. Spring Beauty.  
Kings Creek Meadows.
- Lewisia nevadensis*.  
Dersch Meadows; Kings Creek Meadows.
- Lewisia triphylla*.  
Dersch Meadows; Kings Creek Meadows; etc.

- Sagina saginoides*. Pearlwort.  
 Dersch Meadows; Manzanita Lake.  
*Silene Douglasii*. Douglas' Campion.  
 Dersch Meadows.  
*Silene invisa*.  
 Dersch Meadows. Rare.  
*Spergularia rubra*. Sand Spurrey.  
 Manzanita Lake.  
*Nuphar polysepalum*. Yellow Water-lily.  
 Lily Pond.

## Families 31 - 33

- Aconitum columbianum*. Monkshood.  
 Kings Creek Meadows.  
*Anemone Drummondii*. Windflowers.  
 Emerald Lake.  
*Anemone occidentalis*. Pasque Flower.  
 Emerald Lake.  
*Aquilegia formosa*.  
 Dersch Meadows.  
*Caltha Howellii*. Marsh-marigold.  
 Emerald Lake; Kings Creek Meadows.  
*Delphinium Nuttallianum*. Larkspur.  
 Dersch Meadows.  
*Ranunculus alismaefolius*. Buttercup.  
 Emerald Lake.  
*Arabis Holboellii*.  
 Anklin Meadow.  
*Arabis platysperma*.  
 Near Devastated Area; Bluff Lake.  
*Cardamine bellidifolia* var. *pachyphylla*.  
 Emerald Lake.  
*Draba stenoloba* var. *nana*.  
 Dersch Meadows. Rare.  
*Erysimum capitatum*. Wallflower.  
 Lassen Highway.  
*Rorippa curvisiliqua*. Yellow Cress.  
 Dersch Meadows; Manzanita Lake; Anklin Meadow.  
*Streptanthus tortuosus* var. *orbiculatus*. Jewel-flower.  
 Emerald Lake.

## Families 35 and 36

- Ribes montigenum*. Gooseberry.  
 Dersch Meadows.  
*Saxifraga aprica*.  
 Kings Creek Meadows.  
*Saxifraga Tolmiei*. Alpine Saxifrage.  
 Helen Lake.  
*Cercocarpus ledifolius*. Mountain Mahogany.  
 On road to Butte Lake.  
*Chamaebatiaria millefolium*. Desert Sweet; Fern Bush.  
 Near Chaos Jumbles; on road to Butte Lake.  
*Fragaria platypetala*. Strawberry.  
 Butte Lake.

- Holodiscus microphyllus* var. *glabrescens*. Cliff Spray.  
Devastated Area; Dersch Meadows; etc.
- Potentilla flabellifolia*.  
Emerald Lake; Kings Creek Meadows.
- Potentilla glandulosa* var. *nevadensis*.  
Dersch Meadows.
- Potentilla Sibbaldii*. (*Sibbaldia procumbens*.)  
Emerald Lake; Kings Creek Meadows.
- Prunus emarginata*. Western Bitter Cherry.  
Lassen Highway east of Manzanita Lake.
- Prunus demissa*. Western Choke-cherry.  
On road to Butte Lake.
- Prunus subcordata*.  
On road to Butte Lake.
- Purshia tridentata*. Antelope Brush.  
On road to Butte Lake.
- Rubus leucodermis*. Western Raspberry.  
Edge of lava flow near Butte Lake.
- Spiraea Douglasii*. Douglas' Spiraea.  
On road to Butte Lake.

## Families 37 - 49

- Lupinus Andersonii* var. *Christinae*. Christine Lupine.  
Devastated Area; Lupine Camp.
- Lupinus Lyallii*.  
Kings Creek Meadows.
- Lupinus obtusilobus*. Satin Lupine.  
Devastated Area; Kings Creek Meadows. Common and beautiful.
- Lupinus polyphyllus* subsp. *superbus*. Marsh lupine.  
Kings Creek Meadows.
- Lupinus sellulus*.  
Devastated Area.
- Trifolium longipes*.  
Dersch Meadows; Kings Creek Meadows.
- Trifolium productum*.  
Kings Creek Meadows.
- Linum micranthum*.  
On road to Butte Lake.
- Ceanothus prostratus*. Mahala Mat.  
Lassen Highway east of Manzanita Lake; on road to Butte Lake.
- Ceanothus velutinus*. Tobacco Brush.  
Lassen Highway east of Manzanita Lake.
- Sidalcea oregana* subsp. *spicata*. Checker-bloom.  
Dersch Meadows.
- Hypericum anagalloides*. Tinker's Penny.  
Dersch Meadows; Emerald Lake.
- Viola Macloskeyi*. White Violet.  
Dersch Meadows.
- Viola purpurea*.  
Kings Creek Meadows; Emerald Lake.
- Mentzelia dispersa*.  
On road to Butte Lake.

- Epilobium anagallidifolium*.  
Emerald Lake.
- Epilobium angustifolium*. Fire-weed; Willow-herb.  
Lassen Highway east of Manzanita Lake.
- Epilobium* spp. Two or more low-growing kinds were seen in  
Dersch Meadows and Kings Creek Meadows.
- Gayophytum*. Two or more kinds were seen in Devastated Area,  
Dersch Meadows; Butte Lake, etc.
- Myriophyllum spicatum*. Water-milfoil.  
Butte Lake.
- Ligusticum Grayi*. Lovage.  
Dersch Meadows.
- Perideridia*. Several kinds of "Meadow Laces" were seen in  
flower, but fruits are needed for determination.
- Cornus Nuttallii*. Mountain Dogwood.  
Along road from Manzanita Lake to Viola.
- Arctostaphylos nevadensis*. Pinemat Manzanita.  
Near Hat Lake; Lily Pond Trail.
- Arctostaphylos patula*. Green Manzanita.  
Near Hat Lake; on road to Butte Lake; Lily Pond Trail.
- Arctostaphylos nevadensis* x *patula*.  
Near Hat Lake. With habit of *A. nevadensis* but with the  
larger leaves of *A. patula*.
- Kalmia polifolia* var. *microphylla*. Mountain Laurel.  
Emerald Lake.
- Phyllodoce Breweri*. Pink Heather; *Bryanthus*.  
Emerald Lake; Kings Creek Meadows.
- Pterospora andromedea*. Pinedrops.  
Lily Pond Trail; Butte Lake; etc.
- Pyrola dentata* var. *integra*.  
Lily Pond Trail; Butte Lake.
- Pyrola picta*. White-veined Shinleaf.  
Lily Pond Trail.
- Vaccinium occidentale*.  
Dersch Meadows.

Families 55 - 63

- Dodecatheon alpinum*. Shooting-star.  
Dersch Meadows; Kings Creek Meadows; Emerald Lake.
- Gentiana Newberryi*.  
Kings Creek Meadows (not yet in flower).
- Gentiana simplex*.  
Dersch Meadows.
- Apocynum punilum*. Dogbane.  
On road from Manzanita Lake to Butte Lake.
- Cycladenia humilis*.  
Anklin Meadow (in fruit); Emerald Lake (in flower).
- Collomia tinctoria*.  
Kings Creek Meadows.
- Gilia aggregata*. Scarlet Gilia.  
Lassen Highway near Diamond Peak.
- Gilia capillaris*.  
Kings Creek Meadows.

- Leptodactylon pungens* subsp. *pulchriflorum*.  
Near Diamond Peak.
- Navarretia divaricata*.  
Kings Creek Meadows. This species, rather widespread in Lassen Park, was omitted from the Park flora.
- Phacelia mutabilis*.  
Dersch Meadows; Anklin Meadow.
- Allocarya hispidula*.  
Dersch Meadows.
- Cryptantha ambigua*.  
Manzanita Lake.
- Cryptantha simulans*.  
Manzanita Lake.
- Hackelia nervosa*.  
Kings Creek Meadows.
- Agastache parvifolia*. Lava Tyssep.  
On road to Butte Lake.
- Monardella odoratissima* subsp. *pallida*. Western Pennyroyal.  
Kings Creek Meadows; Anklin Meadow.

## Family 65

- Castilleja lassenensis*. Lassen Paintbrush.  
Dersch Meadows; Emerald Lake.
- Castilleja miniata*.  
Dersch Meadows.
- Castilleja Payneae*.  
Devastated Area; Emerald Lake; Kings Creek Meadows.
- Collinsia Torreyi* var. *Wrightii*.  
Kings Creek Meadows.
- Cordylanthus Bolanderi*. Bird's Beak.  
On road to Butte Lake.
- Mimulus Breweri*.  
Dersch Meadows.
- Mimulus Jepsonii*.  
Kings Creek Meadows.
- Mimulus moschatus*.  
Dersch Meadows; Emerald Lake.
- Mimulus primuloides*.  
Dersch Meadows; Kings Creek Meadows.
- Mimulus primuloides* var. *pilosellus*.  
Dersch Meadows.
- Mimulus Tilingii*.  
Kings Creek Meadows.
- Pedicularis attolens*. Elephant Snouts.  
Dersch Meadows.
- Pedicularis groenlandica*. Elephant Heads.  
Dersch Meadows.
- Pedicularis semibarbata*.  
Dersch Meadows; Kings Creek Meadows.
- Penstemon cinicola*.  
Bordering lava flow at Butte Lake.
- Penstemon gracilentus*.  
Devastated Area; Manzanita Lake; Dersch Meadows.
- Penstemon neotericus*.  
Anklin Meadow.

- Penstemon Newberryi. Pride of the Mountain.  
 Dersch Meadows; Kings Creek Meadows.  
 Penstemon shastensis.  
 Kings Creek Meadows.  
 Verbascum Thapsus. Common Mullein.  
 On road to Butte Lake.  
 Veronica serpyllifolia var. humifusa.  
 Kings Creek Meadows.

#### Families 69 and 70

- Galium bifolium.  
 Kings Creek Meadows; Butte Lake.  
 Galium trifidum var. subbiflorum.  
 Dersch Meadows; Manzanita Lake.  
 Kelloggia galioides.  
 On road to Butte Lake.  
 Lonicera involucrata. Twin-berry.  
 Dersch Meadows.  
 Sambucus glauca. Blue Elderberry.  
 Between Viola and Manzanita Lake.  
 Sambucus microbotrys. Red Elderberry.  
 Edge of lava flow at Butte Lake.

#### Family 74

- Achillea lanulosa. Yarrow.  
 Dersch Meadows.  
 Anaphalis margaritacea. Pearly Everlasting.  
 Devastated Area.  
 Antennaria media.  
 Emerald Lake. (in leaf only).  
 Antennaria rosea.  
 Dersch Meadows; Anklin Meadow.  
 Arnica mollis (?).  
 Kings Creek Meadows.  
 Artemisia Douglasiana.  
 Kings Creek Meadows; Anklin Meadow.  
 Artemisia tridentata. Sagebrush.  
 On road to Butte Lake.  
 Aster alpigenus subsp. Andersonii.  
 Dersch Meadows.  
 Aster occidentalis.  
 Kings Creek Meadows (in bud).  
 Balsamorhiza sagittata. Balsam-root.  
 Lassen Highway near Sulphur Works.  
 Chaenactis Douglasii.  
 Anklin Meadow.  
 Chrysopsis Breweri.  
 Kings Creek Meadows.  
 Chrysanthemum nauseosus subsp. albicaulis. Rabbit-brush.  
 Chaos Jumbles; on road to Butte Lake.  
 Cirsium Andersonii.  
 Lassen Highway east of Manzanita Lake.  
 Cirsium foliosum.  
 Lassen Highway east of Sulphur Works.  
 Cirsium vulgare. Bull Thistle.  
 Manzanita Lake.

- Erigeron peregrinus* subsp. *callianthemus*.  
 Kings Creek Meadows; Emerald Lake.  
*Gnaphalium palustre*.  
 Dersch Meadows; Kings Creek Meadows; Butte Lake.  
*Haplopappus Bloomeri*.  
 Anklin Meadow; Butte Lake.  
*Hieracium horridum*.  
 Anklin Meadow.  
*Microseris nutans*.  
 Kings Creek Meadows (?).  
*Senecio Scorzonella*.  
 Emerald Lake; Kings Creek Meadows.  
*Senecio triangularis*.  
 Dersch Meadows; Kings Creek Meadows.  
*Wyethia mollis*. Mule-ears.  
 Lassen Highway near Sulphur Works; near Butte Lake.

### Lassen Park Bird List

|                         |                       |
|-------------------------|-----------------------|
| Pied-billed grebe       | Dipper                |
| Mallard                 | Rock wren             |
| Coot                    | Robin                 |
| Killdeer                | Warbling vireo        |
| Spotted sandpiper       | Wilson warbler        |
| Common nighthawk        | Yellow warbler        |
| Red shafted flicker     | Audubon warbler       |
| Acorn woodpecker        | Red-winged blackbird  |
| Hairy woodpecker        | Brewer blackbird      |
| White-headed woodpecker | Western tanager       |
| Western wood peewee     | Cassin finch          |
| Olive-sided flycatcher  | Purple finch          |
| Violet-green swallow    | Pine siskin           |
| Barn swallow            | Lesser goldfinch      |
| Stellar jay             | Oregon junco          |
| Clark nutcracker        | Chipping sparrow      |
| Mountain chickadee      | House sparrow         |
| White-breasted nuthatch | Song sparrow          |
| Brown creeper           | White-crowned sparrow |
| Red-breasted nuthatch   |                       |