

Yosemite and Beyond: Field notes, what they are and why are they important

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Field Books at the California Academy of Sciences

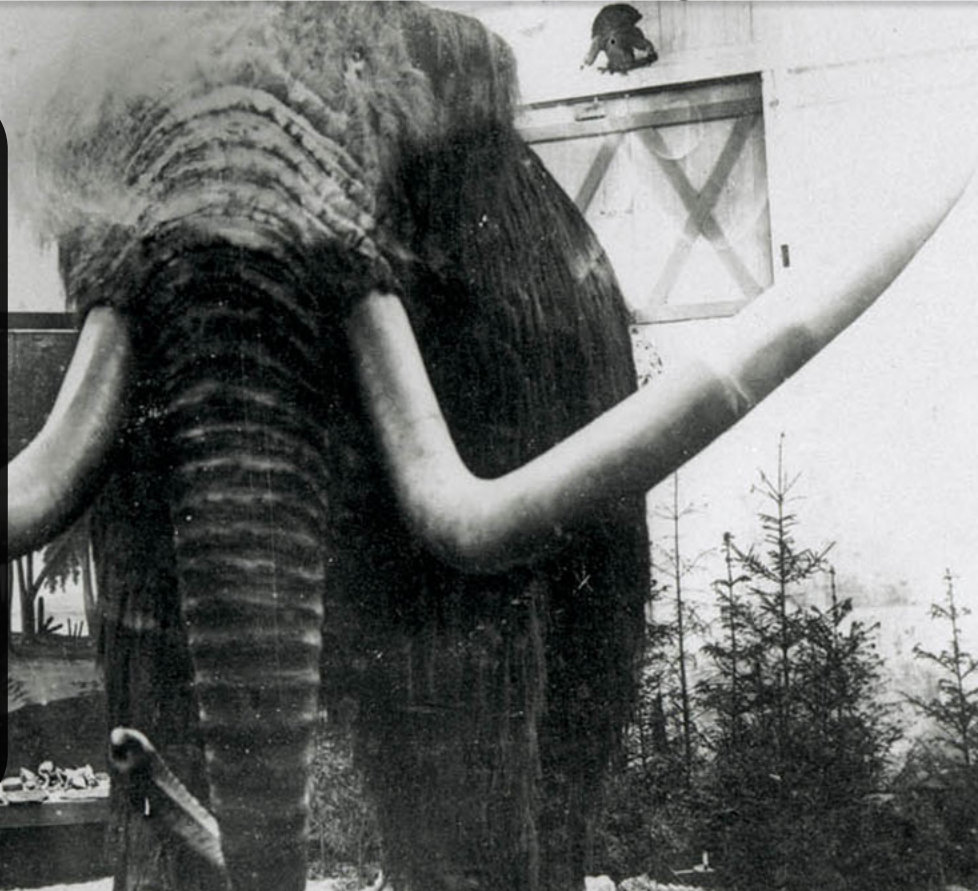
- Rebekah Kim
- Head Librarian

April 13, 2018



About the Cal Academy

- Founded on April 4, 1853
- **Mission:** *Explore, Explain and Sustain Life*
- The Research Divisions has over 100 research scientists
- Contains nearly 46 million scientific specimens from around the world



Library and Archive Collections

Library Holdings

- 81,039 items
- Dates covered: 1500-2016
- Types of materials: books, magazines/journals, maps and AV media

Archive Holdings

- 930 collections (2,459 cubic feet)
- Dates covered: 1700-2018
- Types of materials: films, fine art, historical documents, correspondence, photographs, slides, negatives and digital materials

Cal Academy & Yosemite

- **1863** – Josiah Whitney (CAS President) advocates Yosemite conservation

- Publishes *The Yosemite Book* in 1869

- **1920-1921** – Academy is involved in restocking the Valley with California Valley Elk

- Collecting site for all scientific collections

Field Notes

Definition: an item in a systematic record of the measurements made by a surveyor or the observations of a researcher in the field

Can include: dates, locations, collecting information, identification information, data about species being observed.

Active Records

- Correlate with the specimen collections.
- Stored in the departments they originated from, not in Archive.
- The few field books are stored in the Archive have historical significance.

Example

STOP 164 - A.P.: 10 MI. N.W.,
SADASEOPET, 600 METERS,
II-8-62
200 specimens.
Low lava hill in the fringe
of Deccan lava country,
grassy slopes spotted with
a few small bushes and large
chunks of scoria. Red-brown
soil, very dry. Shady and
partially shady exposures.
Some specimens were collected
about 1/2 mile S.E. under stones
beneath a large banyan tree



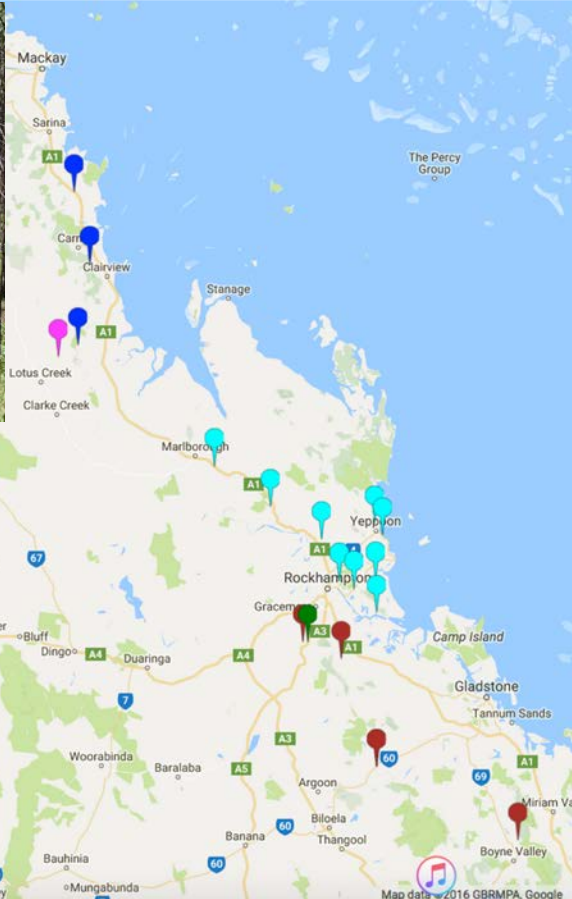
Field Notes of the Past

- Mostly hand written
- Not standardized: range in size, types of information collected
- Variety of sources of field notes: external researchers and staff

Field Notes Today

- Mostly handwritten
- No standard
- More data driven
- Moving towards digital only

Example

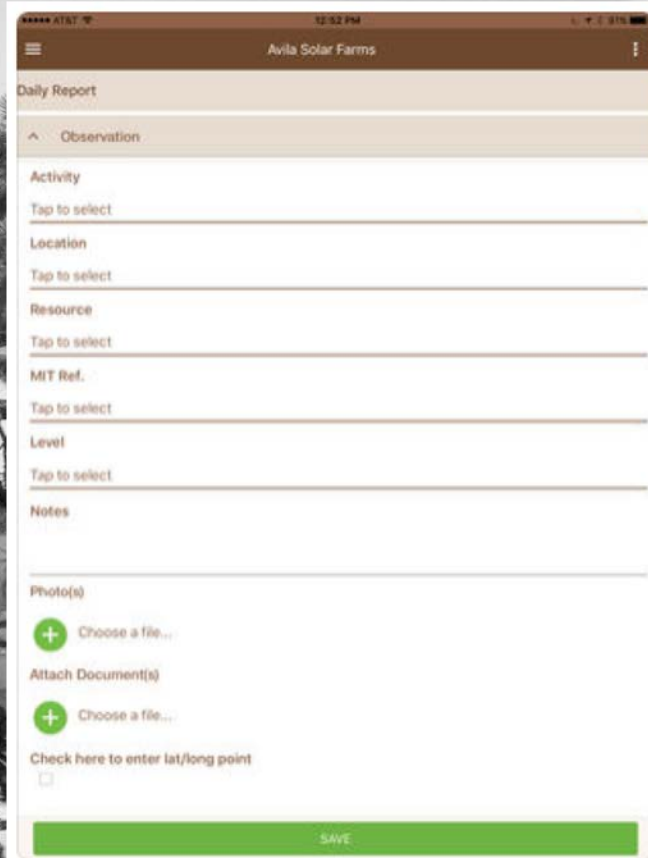



Spreadsheet interface showing a table of data from QLD16. The table has 11 columns and 10 rows of data. The columns are labeled: Pop #, Pl #, Species, Plant height, Caud height, # offsets, # leaves, Leaf length, Repro state, # male cones, Megsp length, # ovules, Leaflet length, and # seed/g.

| Pop # | Pl # | Species | Plant height | Caud height | # offsets | # leaves | Leaf length | Repro state | # male cones | Megsp length | # ovules | Leaflet length | # seed/g |
|-------|------|---------|--------------|-------------|-----------|----------|-------------|--------------|--------------|--------------|----------|----------------|----------|
| 10 | | | | 10 | 0 | 15 | 85 | | | | | 12 | |
| 37 | 1 | | | 40 | 0 | 30 | 85 | | | | | 20 | |
| 2 | | | | 250 | 1 | 80 | 110 | | | | | 14 | |
| 3 | | | | 0 | 0 | 20 | 110 | | | | | 12 | |
| 4 | | | | 90 | 0 | 50 | 110 | | | | | 16 | |
| 5 | | | | 110 | 1 | 50 | 110 | | | | | 21 | |
| 6 | | | | 10 | 0 | 40 | 90 | | | | | 10 | |
| 7 | | | | 110 | 0 | 40 | 120 | Early pollen | | | | 22 | |
| 8 | | | | 60 | 0 | 30 | 75 | | | | | 11 | |
| 9 | | | | 30 | 0 | 30 | 95 | | | | | 16 | |
| 10 | | | | 60 | 0 | 30 | 130 | Early pollen | | | | 20 | |

Field Notes of the Future

- Transition to digital records
- Specialized apps: Wildnote



Avila Solar Farms

Daily Report

Observation

Activity
Tap to select

Location
Tap to select

Resource
Tap to select

MIT Ref.
Tap to select

Level
Tap to select

Notes

Photo(s)
+ Choose a file...

Attach Document(s)
+ Choose a file...

Check here to enter lat/long point

SAVE

Digitizing Field Notes

- Starting a small project with volunteers and interns
- Coordinating with research departments
- **Goal:** Increase access to researchers

Future Aspirations

- Cross reference field notes
- Get more things online
- Standardize physical storage
- DAM

Thank you

-



Yosemite Valley, c. 5000 ft.
 May 25, 1924
 No. 10,451. *Physanocarpus curvipes* Hook.
 Rocky walls, Yosemite; in soil
 between the boulders. Nos. 10,448-
 10,450 in soil similarly
 No. 10,452. *Draperia sylvatica* Torr.
 Rocky walls, Yosemite; in good soil
 between the boulders. Stamens unequal,
 slightly over half as long as tube in
 their insertion; filaments slightly hairy. Ent. p. 17.
 No. 10,453. *Camothlis integririma*
 H. & A. var. *californicus* (Keel) Benson
 Rocky walls, Yosemite.
 No. 10,454. *Potentilla glandulosa*
 Lindl. var. *reflexa* Jepson
 No. 10,455. *Cerastium arvensis*
 Granite sand, Yosemite tal
 Slopes 10. Pet. white, cuneate-ob
 1/3 way down. Ent. p. 17.
 No. 10,456. *Montia Claytonia* per
 Donn. ex Willd.
 Granite sand, Yosemite
 No. 10,457. *Lithothragma*
 Moist slope, Vernal Fall
 Petals deeply 3-lobed.



Linking the University and Jepson Herbaria field books and botanical collections

Amy Kasameyer, Archivist, University and Jepson Herbaria

Middle
 S. Fk. T. Lumb



YOSEMITE

Dana Plateau, July 17, 1933
 altitude of Plateau 11,500-12,000'
Ternstroemia vulgaris L. (prob. *rubra*)
 Same loc. but in drier spot,
 among rocks alt. 11,200'
Lactaria majellanica (Kun.) Cov.
 with 88 (forma *frigida* Brandt)
Silene (sp. discarded)
 with 88, 89
Ala. purpurea Kell
 same loc.
 92- *Cuscuta composita* Pursh.
 No rays. Drier, rocky spot
 but near others
 93- *Potentilla pseudosericea* Rydb.
 silvery leaved, yellow flowers
 93a- same loc.
 94- *Arabis Drummondii* Wats. (? sp. *minutula*)
 - discarded
 same loc.
 95- *Veronica alpina* var. *unalaskensis*
 stream side, top of plateau
 alt. 11,500'

83- *Mimulus* *subdorsifolius*
 (sp.?) (sp. *venosus*)
 Same loc.
 84- *Caryophyllaceae*
 same loc. *Stellaria longipes* Jaldt
 85- *Draba* (?) *prealta* Greene
 same loc.
 86- *Cruciferae* (Gross) *Barbarea orthoceras*
 Yellow flowers. Same loc. Ledeb.
 87- *Stellaria cruxpa* C. & S.
 Same loc.
 #87a. *Vetch*?
 Same loc.

- What is a herbarium?
 - Not an herb shop!
 - Not a botanic garden!
 - Not a marijuana dispensary!!!
- ✓ A herbarium is a collection of preserved plants stored, catalogued, and arranged systematically for study



The University and Jepson Herbaria

2 Herbaria housed together:



University Herbarium:

- Established in 1895
- ~2,100,000 botanical specimens from all over the world



Jepson Herbarium:

- Established in 1950
- ~100,000 botanical specimens from the state of California



Plant specimens sit arrayed on a table at the University and Jepson Herbaria.

Robinson Meyer / The Atlantic

What Good Is a Library Full of Dead Plants?

How 19th century scientists anticipated the data revolution

ROBINSON MEYER | MAR 18, 2016 | SCIENCE

Why keep herbarium specimens?

- Reference collection for plant identification
- Tangible record of biodiversity from a particular time and place
- Specimens preserved for centuries
- Vouchered observations
- DNA can be extracted from specimens for genetic studies



How did we get all of these herbarium specimens?



Observations made in Field Book

Collection Number



Each collector assigns unique collection numbers in a chronological fashion.

Collection numbers are never reused!

Maniposa Co. D
May 23, 1924. 6300 ft.
Crane Flat. Goswami

No. 10, 434. *Ribes roezlii* Regel.
Petals when recurved deep purple,
only the tips greenish or reddish.
Anthers deep purple, with the very
upper part of the filaments exceeding
the petals which are serrulate at
apex; anthers distinctly mucronate;
styles greenish! Petals a little pink
flushed below! Pedicels with 1 dis-
tinct bract at the middle—
the peduncle rarely 2-flowered.
Shrubs 14 to 25 in. high. Open
forest ridges. Bees working on fls. at 4:45
a.m.

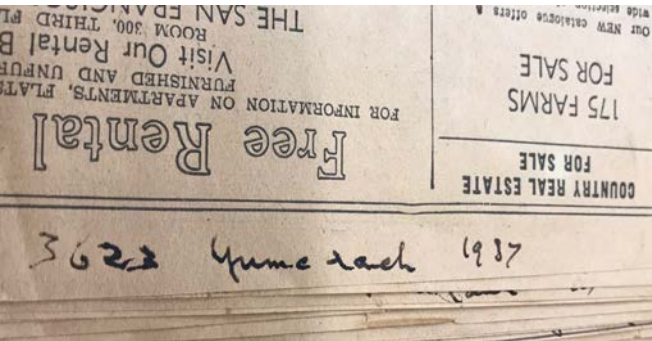
No. 10, 435. *Prunus emarginata* (Hook.)



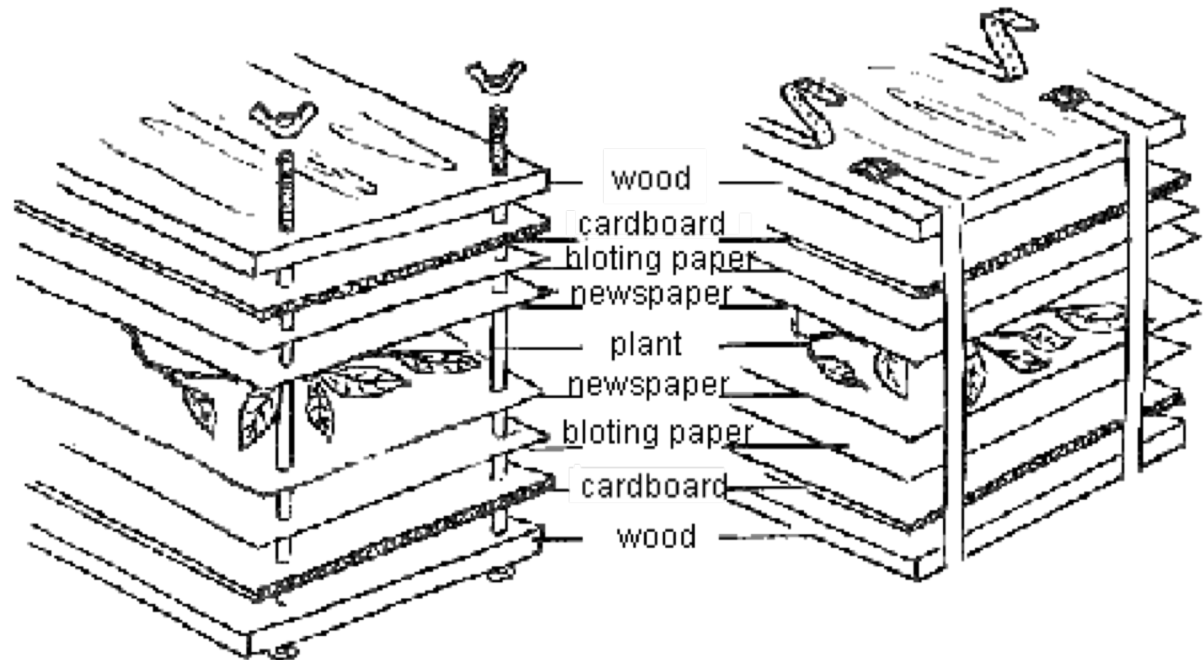
1. Plant is collected



2. Plant goes in folded sheet of newspaper



3. Collection Number Written on Newspaper



4. Newspaper folder goes in a plant press



Yosemite National Park, California

H. M. HALL, No. 8988

Calochortus venustus Benth.

Wawona road, near Alder Creek

Low Transition Zone, at 5000 feet altitude, Jun 18 1911

2-D Plant Specimen



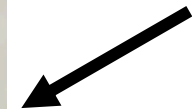
Accession barcode



Annotation Label



Label



✓ JEPS23387



Delphinium hansenii
(Greene) Greene
subsp. *hansenii*
Mariposa / CA /
USA
Collector(s): W. L.
Jepson
Collection date: Jul
1 1896

✓ UC8012



Carex athrostachya
Olney
Mariposa / CA /
USA
Collector(s): W. H.
Brewer
Collection Number:
1650
Collection date: Jun
17 1863
Elevation: 4000 ft

✓ UC119736



Clintonia uniflora
(Menzies ex
Schult. & Schult.
f.) Kunth
Mariposa / CA /
USA
Collector(s): John
Muir
Collection date:
1875

✓ UC204666



Gilia capitata
Sims subsp.
mediomontana V.
E. Grant
Mariposa / CA /
USA
Collector(s): Le
Roy Abrams
Collection Number:
4435
Collection date: Jun
20 1911
Elevation: 4000-
4500 ft

✓ JEPS1947



Clarkia williamsonii
(Durand & Hilg.)
F. H. Lewis & M.
R. Lewis
Mariposa / CA /
USA
Collector(s): W. L.
Jepson
Collection Number:
14365
Collection date: Jul
1 1896

✓ JEPS2552



Cuscuta californica Hook.
& Arn. var.
apodanthera
Yunc.
Mariposa / CA /
USA
Collector(s): W. L.
Jepson
Collection Number:
80a
Collection date:
July 7-12 1896

✓ UC11678



Ribes viscosissimum
Pursh
Mariposa / CA /
USA
Collector(s): H. N.
Bolander
Collection Number:
4896
Collection date:
1866

✓ UC11677



Ribes viscosissimum
Pursh
Mariposa / CA /
USA
Collector(s): H. N.
Bolander
Collection Number:
6328
Collection date:
July 1866

✓ UC119799



Lilium parvum
Kellogg
/ CA / USA
Collector(s): John
Muir
Collection date:
1875

✓ UC72461



Carex athrostachya
Olney
Mariposa / CA /
USA
Collector(s): W. H.
Brewer
Collection Number:
1650

✓ JEPS61750



Calochortus venustus Douglas
ex Benth.
Mariposa / CA /
USA
Collector(s): W. L.
Jepson
Collection date: Jul
7 1896-Jul 12 1896

✓ UC38850



Melica poaeoides
Nutt. var. *inflata*
Bol.
/ CA / USA
Collector(s): H. N.
Bolander
Collection Number:
6121
Collection date:

✓ UC2663



Juncus triformis
Engelm.
Mariposa / CA /
USA
Collector(s): H. N.
Bolander
Collection Number:
4864
Collection date: Jun

✓ UC1134533



Calochortus venustus Douglas
ex Benth.
Mariposa / CA /
USA
Collector(s): W. B.
Augustine
Collection Number:
138

✓ UC1134530



Calochortus venustus Douglas
ex Benth.
Mariposa / CA /
USA
Collector(s): W. B.
Augustine
Collection Number:
137

✓ UC1105889



Juncus triformis
Engelm.
Mariposa / CA /
USA
Collector(s): H. N.
Bolander
Collection Number:
4864
Collection date: Jun

Field Books at the University and Jepson Herbaria

- Firsthand observations documenting botanical collecting activity
- Field books of over 60 botanists
- Spanning 1859-2012
- Provide context for botanical specimens

Field Book Page for
Jepson's Collection No.
6456



124 Cold Spring, Tuolumne Co.
5700 ft.
(betw. Stoddard Sprs. and Pine Crest)
Ridge near Cold Spring, locally
known as Bald Mt. (but not the Bald
Mt. near Yankee Hill (Big Trees quadrangle).
No. 6456. *Arctostaphylos* ^{parti-}
^{llosa} ^{Jepson}
berries as large as crab-
apples. Remarkable for their
size, as large as the largest
A. glauca berries. Shrub
rather small, 3 or 4 ft. h.,
on rocky ridge (lava), near
Cold Spring, locally known
as Bald Mt. The stone
not yet formed! It
seems much slower of
formation than in other
species - *A. viscida*, *A.*
manzanita, which have
a formed stone even if
not very hard, at this
stage. The stone in 6456
at this stage is hardly more
than like an apple core.

Bald Mt.

PLANTS OF CALIFORNIA

10 July 1915
(Type!)

Arctostaphylos pastillosa Jepson

^{near} Cold Spring, Tuolumne Co.

N. L. Jepson, No. 6456

alt. 5700 ft.



Label for Jepson's
Collection No. 6456

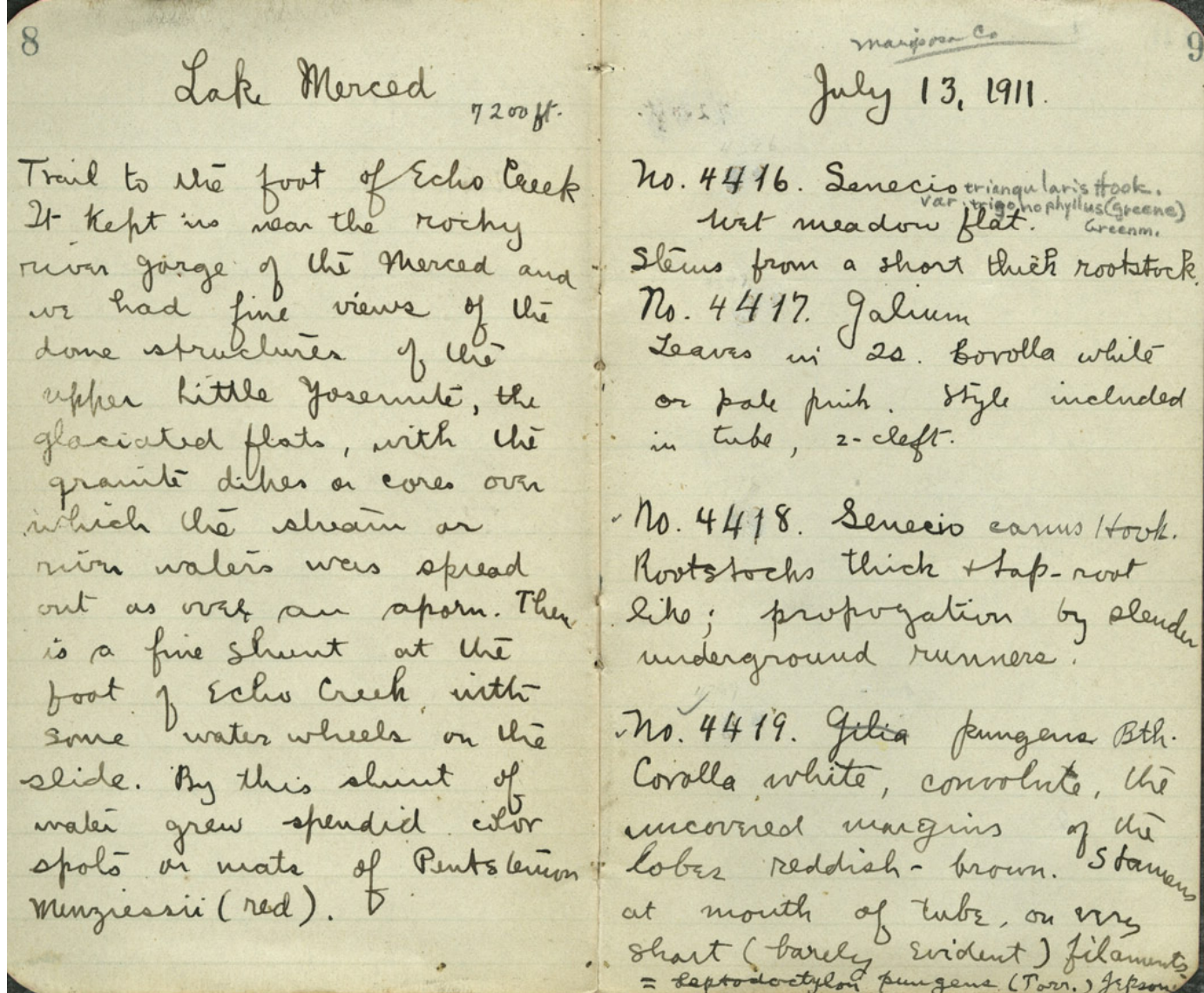
What data goes in a field book?

Always included:

- Location
- Date
- Collection Number

Usually included:

- Identification
- Plant Description
- Habitat Description



Jepson Field Book Volume 23, 1911, pages 8-9.

16 Dana Plateau - July 17, 1933 - Around North flank of Mt. Dana, across Glacier Canyon + up the plateau.

80 - Draba Brewerii Wats.

In wet, sedgy spot on way up Dana Plateau from same canyon. alt. 11,200'

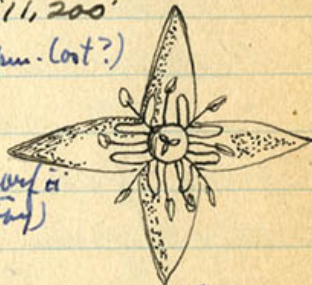
81 - Draba Lemmonii Wats.

Same loc. alt. 11,200'

82 - Arenaria (sp. lost?)

Same loc.

83 - Mimulus Subsdorfii
Gray? (sp. wrapped)
Same loc.



84 - Caryophyllaceae

Same loc. Stellaria longipes Goldie

85 - Draba? prealta Greene

Same loc.

86 - Cruciferae (Gross) Barbarea orthoceras
Yellow flowers. Same loc. Tidestrom

87 - Stellaria crispa C+S.

Same loc.

#87a. Vetch?
Trifolium monanthum
Same loc. + rooting at nodes

Dana Plateau, July 17, 1933
Altitude of Plateau 11,500-12000'

88 Artemisia vulgaris L. (prob. rubra, ludoviciana (Nutt.) H & C.)
Same loc. but in dryer spot, among rocks alt. 11,200'

89 - Phacelia majellana (Ham.) Cov.
With 88 (forma finjida Brand?)

90 - Achillea (sp. discarded)
with 88, 89

91 - Viola purpurea Kell
Same loc.

92 - Erigeron compositus Pursh.
No rays. Dryer, rocky spot but near others

93 - Potentilla pseudosericea Rydb.
Silvery leaved, yellow flowered

93a - Same loc. Potentilla glandulosa

94 - Arabis Lemmonii Wats. (? sp. immature) - discarded
Same loc.

95 - Veronica alpina var. malaschensis C+S.
Stream side, top of plateau
alt. 11,500'

Mariposa Grove

- Trees = Sugar & Yellow Pine, Incense Cedar, Black Oak,
- "Woodland Star" is a name used by Mrs. Huber for Tillima.
- *Ceanothus divaricifolius*, makes a fine soft carpet.
- *Ceanothus parvifolius* Ireland
- *Castanopsis sempervirens*, thicker of it.
- *Ceanothus cordulatus* ^{Kell.} thickets high in centre, branches at tips going to ground. Low mounds, high in centre. *C. parvifolius* with ^{somewhat} ascending branches

"Grizzly Giant."

Circumference 104 ft. Height 224 ft. Large limb 100 ft. above ground 6 ft. in diameter. Containing about 1,000,000 ft. of lumber. Estimated to be about 8,000 years old. The largest and oldest tree in the world." = Signboard on Tree.

June 29, 1911

Diamond Group.

Unmanned trees.

Small trees

W

E

←--→ = Road.
 All below this road I consider to be Lower Grove. That is southerly. See p. 125.

Willis Linn Jepson Field Books

- "Father of California Botany"
- Dedicated his life to the study of the California Flora
- Kept extensive field books documenting his more than 20,000 collections throughout California
- 63 volumes of field books dating from 1883-1945



Willis Linn Jepson,
Mt. Dana, 1909

48
T. volume Mdw to Mt.

8600 ft - 9800 ft. at Base Camp, Mt. Dana.

✓ No. 3256. *Sambucus racemosa* L.
Bush 1 to 3 ft. h.
n. side Lambert Dome.

✓ No. 3257. *Potentilla flabellifolia* Hook.
Leaves 3-fol. Petals yellow,
round, emarginate. Disk-margin
deep orange, glandular,
bearing 20 stamens. Herbage
a little clammy.
Carex exserta Mackenzie. Det. K.K.M.

No. 3258. ↑ ledge, Open Tamarac woods.

No. 3259. *Carex*. Open Tamarac woods.

✓ No. 3260. *Lupinus*
exaltatus Gray var. *canadensis* Sibth.

No. 3261. *Calyptridium* var. *umbellatum* var. *caudicifera*.

✓ No. 3262. *Phlox* *diffusa* rocks.

No. 3263. (not used)
douglasii Hook. Dana Fork - Var. *diffusa* Gray.

✓ No. 3264. *Gymopterus terebinthinus*
Dana Fork T. & G.

No. 3265. Willow. "
Salix caudata Willd.

Dana. July 13, 1909.

- John Muir says: "I can't make
two species of *Pinus contorta*.
Then there is the Lodgepole Pine
of the northwest which has
a different habit. Its long
slender poles are different-
from this muggeris here.
That is because of fire. It
holds its seed a year or
two, some but usually say
they have found them good
at 8 years, and after
fire, lo and behold, they
sow the area with seeds
on the ashy soil - just
what they like and then
comes the snow and the
next spring there is a
green sward so dense

Hetch-Hetchy (3700 ft.)

- *Quercus chrysolepis*.
 The walls of the valley are given more character by this tree than by all other species combined. First of all at the easterly end of the valley has a series of high cliffs, great rocks rising out of the wall, which are remarkable, unlike the rocks of Yosemite, for their vegetation. These rocks are set in a mass of oaks which give a character to the rugged strength of the rocks that is very very pleasing. Great rocks set in trees, rising

July 26, 1909.

out of groves - a most enticing scene. Further down the valley, westerly, are great granite walls, smooth towering cliffs like Yosemite and utterly devoid of vegetation, save for 1, 2, or 3 sharply defined bands of oak (*chrysolepis*) which run nearly horizontally, i.e. inclined upward easterly, across the walls, taking advantage of a rift or shelf in the mass of rock, a rift which runs with great directness, seemingly a straight line. This oak is mostly



PREFACE

The Yosemite National Park is perhaps the most delightful region in all the world for the study of plant life. The wide variety of conditions here found, ranging from the hot and desiccated slopes of the brush-clad foothills to the cold, bleak summits above timber-line, the abode of glaciers and perpetual snow, gives to the flora an exceedingly diverse and interesting character. Innumerable springs, creeks, rivers, ponds, and lakes provide suitable habitats for moisture-loving plants. Rocky outcrop-

A YOSEMITE FLORA

A DESCRIPTIVE ACCOUNT
OF THE FERNS AND FLOWERING PLANTS,
INCLUDING THE TREES, OF THE YOSEMITE NATIONAL
PARK; WITH SIMPLE KEYS FOR THEIR
IDENTIFICATION; DESIGNED TO
BE USEFUL THROUGHOUT
THE SIERRA NEVADA
MOUNTAINS

BY
HARVEY MONROE HALL

ASSISTANT PROFESSOR OF BOTANY IN THE
UNIVERSITY OF CALIFORNIA

AND
CARLOTTA CASE HALL

8. To Yosemite via Big Meadows, Camped at Bridal Veil meadows.
9. Spent in Yosemite
10. Vernal Nevada Falls and Little Yosemite
11. Yosemite
12. Eagle Pt. trail to Yosemite Cr. then Indian Cañon, Snow Cr. and Snow Flat.
13. Sunday at Snow Flat, S. W. base Mt. Hoffman
14. To Lake Tenaya, where I left Babcock while Bally and I returned to Snow Flat and then back along side cañons etc. to the Lake. This was the day Bally slipped and fell with my leg under him; - no serious damage.
15. To Tuolumne meadows, camping on N. side of river, near main ford.
16. Up Delaney Creek, to near Dog Lake and around Lambert Dome.
17. Up Lyell Cañon to opposite Kuna Creek
18. To lake at 10000 ft. on Lyell, along the axis at 11000 ft. "Cassiope Abut"
19. Over Tioga pass to Tioga, Camp at pass
20. Sunday in camp & around base of Dana

21. Went on to Saddlebag Lake. But little botanizing in this region, partly on account of late season but more on account of sheep-back to
22. pass and up the cañon to between Dana and Gibbs to cir. 10500 ft. and near timber line. 7 (Timber line camp).
22. Climbed Dana by way of Dana-Gibbs divide and crag rocks separating snow-fields.
23. From Timber-line camp to Snow Flat, camping in cabin for fear of rain.
24. Porcupine Flat, Dark Hole (lunch) and Aspen Valley.
25. Trail lead today through one of the grandest forests I have ever seen; mostly yellow pine. Ideal camping spots if water could be found. To sequoia & Olfox Spr.
26. To Groveland, where we sold our animals to Mr. James (3/4 drunk) & camped in the old hotel.
27. Stage at 4: A.M. Berkeley at 6: P.M. (Sunday)

Libocedrus decurrens, *P. ponderosa* & *Ceanothus integerimus* give place to *P. sabiniana*, *A. chrysolepis*, *Alnus diversiloba*, *Alnus* sp., *Acer macrophyllum*, *Ceanothus cuneatus*, *Arctostaphylos tomentosa*, *Vitis Californica* & *Cercocarpus betulifolia*, which species continue to the bottom of valley, the underlines also running out into Transition of valley floor.

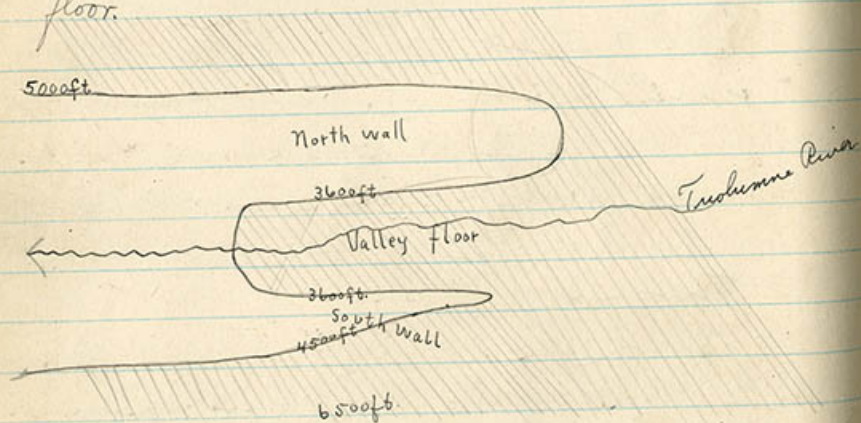


Diagram showing zone position in Hetch Hetchy valley. Shaded portion is Transition; clear is Sonoran. On north wall wherever mountains or spurs project out into valley, the *P. ponderosa* runs down the east (n-e) sides 1000 ft. or so lower than elsewhere.

where. The water of the river is very cold, estimated at 7°C. It seems unusual for the Sonoran elements to ascend to 5000ft, even on a south exposure and 4500ft. on a north-west exposure is unusual; may the enormous amount of rock surface have something to do with this? of Crane Cr.

Plants of Hetch Hetchy.

All the following grow in the valley proper at about 3600ft. Many others occur but all are listed that could be determined with certainty:.

Plants on Catalog No 3067-3068

| | |
|--|---|
| <i>Pinus ponderosa</i> | <i>Polygonum amphibium</i> |
| <i>Libocedrus decurrens</i> | <i>Spraguea umbellata</i> |
| <i>Brodiaea grandiflora</i> | <i>Aquilegia truncata</i> |
| Br. | <i>Philadelphus Lewisii</i> ^{Californicus} |
| <i>Populus trichocarpa</i> , com. along river. | <i>Rubus leucodermis</i> |
| <i>Alnus</i> sp. | <i>Cercocarpus betul.</i> n. wall |
| <i>Quercus Californica</i> | <i>Prunus demissa</i> |
| <i>Eriogonum nudum</i> | |

3373 *Viola blanda* Willd.

In wet meadows; hidden
by grass.

{Hetch Hetchy
July 4, 1902}

3374 *Hieracium albiflorum* Hook

3375 *Bisduvalia stricta* (Gray) Trelease.

With 3364

3376 *Agoseris retrorsa* (Benth.) Greene.

Alt. 5200 ft., Hetch-Hetchy Trail

3377 *Erigeron salicuginosus*

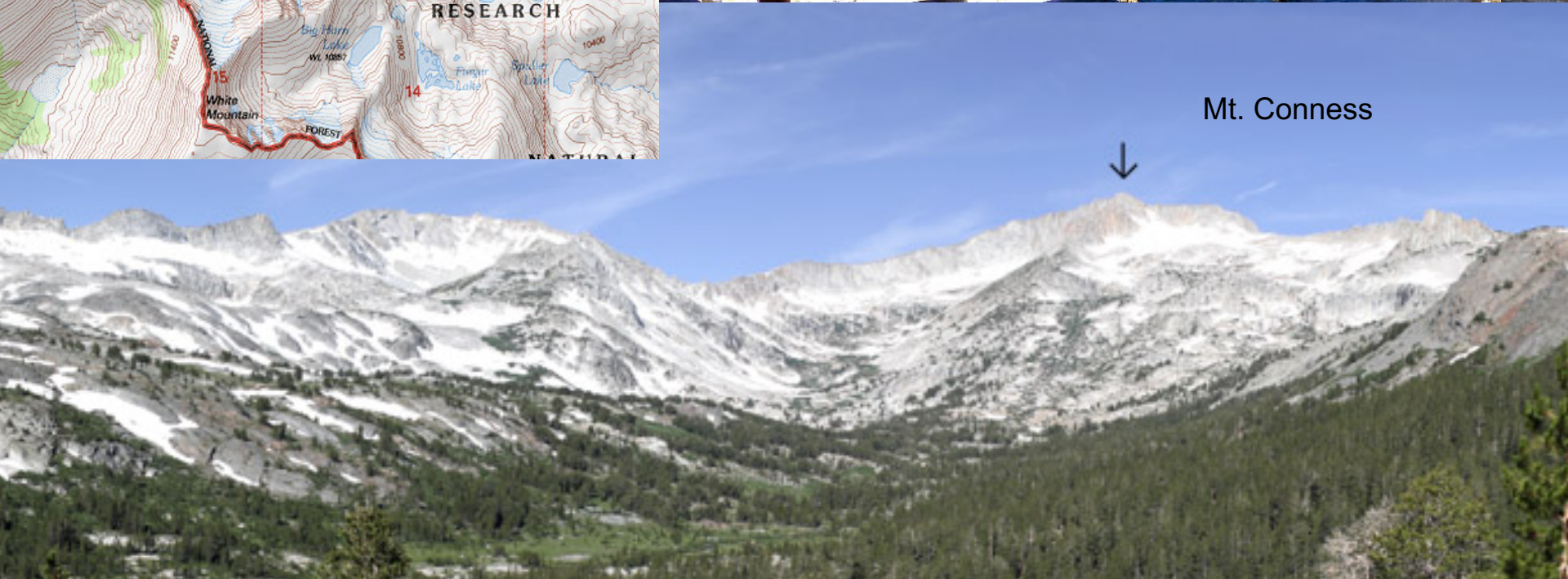
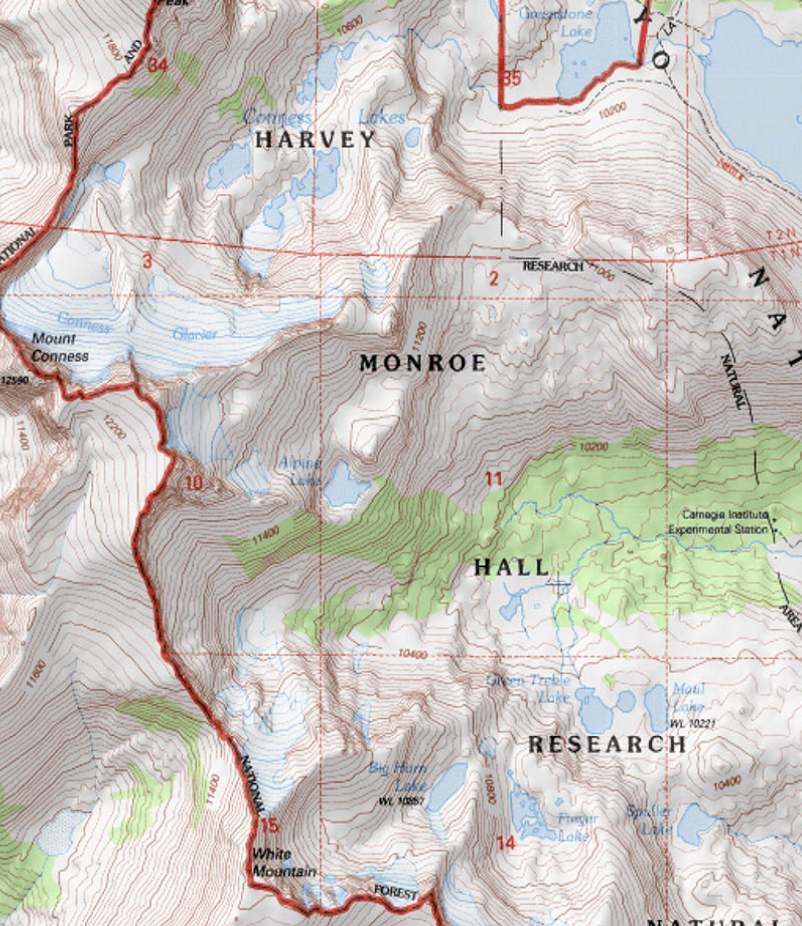
3378* *Horkelia parviflora*, = *Potentilla andersonii* Greene

3379 *Osmorhiza brachypoda* Torr.

Trail at 5000 ft., Transition Zone.

3380 *Sedum yosemitense* Britton.

Com. on rocks at 4200-4500 feet.



Mt. Conness



Helen Sharsmith Field Books

126 Mt. Dana, July 19, 1933

125

Astragalus lentiginosus Dougl.

Growing with 123, etc.

on top of butters, among rocks.
11,500'

As I climb along the shoulder of the butters & look down into Glacier Canyon, huge patches of the Ribes just mentioned are seen, the only shrub up here for the last & smallest white bark pines were passed some 200' back. It looks, then, to be the highest shrub on the mt.

126 Draba Brewerii Wats. alt. 11,500'

On northern butters. Dry soil bet. rocks. With Erigeron compositus, etc. Collected here

Mt. Dana, July 19, 1933

27

alt. 11,500'

because a couple of the plants were still in good bloom. This species (the white flowered) one is mostly fruiting already.

127- Potentilla diversifolia ^{hemisphaerica} ~~hemisphaerica~~ ^{glauco-phylla} ~~hemisphaerica~~ alt. 11,500'

The orange flowered one found mostly at lower altitudes. Rather surprising to see it here towering above the tiny alpines which hug the rocks all around it. On eastern edge of Dana on bench-land.

128- Cercophyllum alt. 11,500'

near 127. Senecio Moirii Greene.

129- Erysimum ^{capitatum} ~~capitatum~~ ^{perenne} ~~perenne~~

Wall flower. Another surprise at this elevation. Like the Potentilla it towers above its alpine neighbors like a giant forest tree. Quite an area



Helen at Benson Lake
August 11, 1936

Helen Sharsmith
Field Book volume 5,
pages 33-34, 1936

33)
Back-pack trip; northern part of Yosemite
National Park. Aug. 6-18, 1936

Benson Lake. A mile of forest & we
come out upon the sandy, crescent-
shaped beach of Benson Lake, the forest
reaching to the edge of the sand. But
all the rest of the shore-line of this
huge lake, seeming like an inland sea,
is enclosed by steep rocks, cliffs
coming down straight to the edge of the
water.

The pack party is already established
in the mosquito forest area back of the
beach. We trudge along it
camp on its far end on a
tongue partially protected by
sprawling juniper. Wind-
less, isolated, and with the
lake lapping on the rocks
away. It seems queer to
upon metamorphics.

A big mess of bea

34
Back-pack trip, Northern part of Yosemite
National Park. Aug. 6-18, 1936.

just hits the spot tonight. O-stail soup,
stewed fruit, cookies & tea in addition fill
us almost beyond capacity.

The clouds are still ominous &
we have some rain after we turn in
but not enough to disturb our sleep.

Tuesday, August 11 - Afternoon trip around Benson
Lake, 4 miles.

Fancy clouds are covering the sky when
we arise but the sun shines through encouraging-



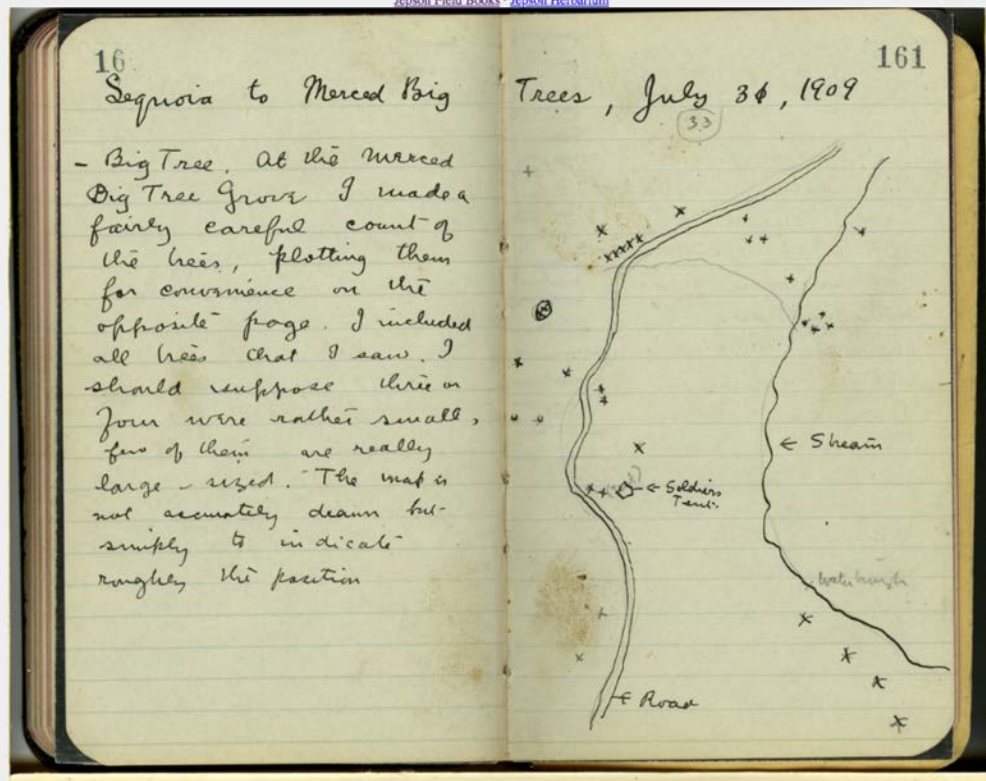
Benson Lake,
August 11, 1936

Jepson Field Books

- 63 volumes of field notes (1883-1945)
- Scanned and made available online in 2007



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Go to: Volume 20 page

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Index to this volume

Jepson Field Book Transcriptions · Jepson Herbarium

Index to all books



20_160
Sequoia to Merced Big

-Big Tree. At the Merced Big Tree Grove I made a fairly careful count of the trees, plotting them for convenience on the opposite page. I included all trees that I saw. I should suppose three or four were rather small, few of them are really large-sized. The map is not accurately drawn but simply to indicate roughly the position



ms.

Go to page number

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20_161

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20

Yosemite Valley

3900 ft.

no. 5667. *Galium*

Yos. Valley

no. 5668. *Polygonum douglasii*
Stamens 8! Yos. Valley.

Greene

no. 5669. *Rhamnus* ^{californica} ~~californica~~Eck. Yosemite. Intergrade to *Rhamnus*
nuba Greene var. *obtusissima* Jepson.no. 5670. *Eriogonum* ^{rostratum} ~~rostratum~~
El Portal.no. 5671. *Arctostaphylos* *mariposa*
Dudley. This looks to me
exactly like the best or
most typical herb. spec. of
A. mariposa. El Portal
Common in this reg. and below!no. 5672. *Sambucus glauca*
Back of Glacier Pt.Berries blue black! Cluster taken
about 1/6 of panicle - conjub.

Sept. 8-11, 1913

21

no. 5673. *Quercus chrysolepis*, var.
Low shrub 5 ft. high, not dif-
fering in habit from the shrubs
of *Q. vaccinifolia* a little higher
up, towards Glacier Pt. (no. 5637),
unless possibly the stems not
quite so slender in 5673. These
specimens were taken from shrubs
on the granite shelf overhanging
and right by the summit of
Nevada Fall.no. 5674. *Polygonum minimum*.
Nevada Fall, at summit, in
moist ^{soil} collected in crevice of granite
5900 ft.no. 5675. *Juniperus occidentalis*
Summit of Nevada Fall.
5900 ft.no. 5676. *Acer glabrum* Torr.
Helixette Trail.[Read transcription](#)[Links to specimen database](#)[5667](#) [5668](#) [5669](#)[5670](#) [5672](#) [5673](#)[5674](#) [5675](#) [5676](#)[Read transcription](#)[Links to specimen database](#)[5667](#) [5668](#)[5669](#) [5670](#)[5672](#) [5673](#)[5674](#) [5675](#)[5676](#)[Transcribe left](#)[page](#)[Read transcription](#)

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28_20

Yosemite Valley 3900 ft.

No. 5667. *Galium* [Yosemite] Valley

No. 5668. *Polygonum douglasii* Greene
Stamens 8! [Yosemite] Valley.

No. 5669. *Rhamnus rubra yosemitana* C B Wolf
Yosemite. Intergrade to *Rhamnus rubra* Greene var.
obtusissima Jepson.

No. 5670. *Eriogonum roseum* Benth. El Portal.

No. 5671 *Arctostaphylos mariposa* Dudley.
This looks to me exactly like the best or most
typical [herbareum specimen] of *A. mariposa*. El
Portal. Common in this [region] and below!

No. 5672. *Sambucus glauca* Back of Glacier Pt.
Berries blue black!
Cluster taken = about 1/6 of panicle-corymb.

28_21

Sept. 8-11, 1913

No. 5673. *Quercus chrysolepis*, var.
Low shrub 5 ft. high, not differing in habit from the
shrubs of *Q. vaccinifolia* a little higher up, towards
Glacier Pt. (no. 5637), unless possibly the stems
not quite so slender in 5673.

There specimens were taken from shrubs on the
granite shelf overhanging and right by the summit
of Nevada Fall.

No. 5674. *Polygonum minimum* Wats.
Nevada Fall, at summit, in moist soil collected in
crevice of granite 5900 ft.

No. 5675. *Juniperus occidentalis*. Hook.
Summit of Nevada Fall. 5900 ft.

No. 5676. *Acer glabrum* Torr.
Illilouette Trail.



Links to
specimen
database

[5667](#)

[5668](#)

[5669](#)

[5670](#)

[5672](#)

[5673](#)

[5674](#)

[5675](#)

[5676](#)



20_160
Sequoia to Merced Big

-Big Tree. At the Merced Big Tree Grove I made a fairly careful count of the, trees, plotting them for convenience on the opposite page. I included all trees that I saw. I should suppose three or four were rather small, few of them ar really large-sized. The map is not accurately drawn but simply to indicate roughly the position



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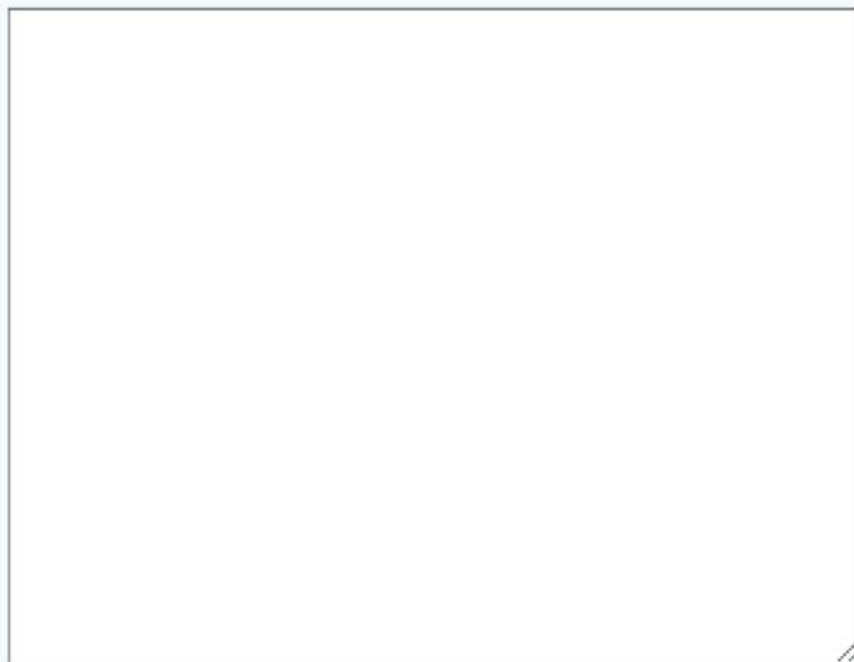
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Jepson Field Books

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We will index the content and point to the image pages.

If you encounter words that are illegible, put a guess in square brackets.

Help with interpreting writing, botanical jargon, etc.

- [Specimen database](#)
- [Jepson place name index](#)
- [Jepson Interchange](#)
- [Jepson's A Flora of California](#): searchable by plant name
-

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Search Results for "wawona" | University and Jepson Herbaria Archives, University of California, Berkeley

You searched for "wawona".

[-] Records and Manuscripts (1 Matches)

Willis Linn Jepson papers, 1867-1946 

[-] Results Found Within Box List

Series 11 → Sub-Series 4: Photographs arranged by subject → Box 21 → Folder 13: **Wawona**

[-] Digital Images and Records (8 Matches)

Jepson Field Book volume 18 page 44
Jepson Field Book volume 27 page 192
Jepson Field Book volume 28_14
Jepson Field Book volume 28_16
Jepson Field Book volume 28_18
Jepson Field Book volume 28_2
Jepson Field Book volume 28_202
Jepson Field Book volume 28_4

Available: http://ucjeps.berkeley.edu/cgi-bin/display_fb.pl?page_no=28_2

Title: Jepson Field Book volume 28_2

Description: El Portal to Wawona smaller passes of *Ceanothus cuneatus*. The next morning we rose at 5:00. Two stage [?] for Yosemite arrived Sentinel Hotel at 10:00. Mr. Whitney of the S.P. Co.,: traveling passenger agen, had been sent with us and facilitated things all along the line. Going up the hill to Inspiration Pt. we in the second stage walked a good deal: Schroter, Paulsen, [?Dachinowski], Skottsberg, etc collecting. We stopped so much that it fell dark after Chinquapin and we drove into Wawona about 7:15. Next am. up to Big Trees in same way. Schroter took off his hat and waved it wildly in sight of the great giants. We spent ::::::::::: Sept. 8, 1913 all day in the Grove, the party collecting and photographing and looking at the trees. (Baxter is still the photog. at the Big Tree Cabin). To my dismay the park authorities are clearing out the brush clean and trimming up little fir trees from below like specimen trees on a lawn! It is terrible. We saw Major Littlebrant in Yosemite. He seemed delightful; was most kind in offering help and animals; and asked for suggestions regarding the care of the park. So I have written him about this matter. I saw no *Abies magnifica* in association with *Sequoia gigantea* in Mariposa Grove!!

ID: http://ucjeps.berkeley.edu/images/fieldbooks/volume_28/img332.jpg

Repository: University and Jepson Herbaria Archives, University of California, Berkeley

Found in: [Jepson Field Book volume 28 transcriptions](#) 

Linking the Jepson Field Books with our Collections Database

| Image File Name | Collection Number Range |
|-----------------|-------------------------|
| Jepsv2p3.jpg | 1771-1774 |
| Jepsv2p5.jpg | 1775-1782 |
| Jepsv2p7.jpg | 1783-1795 |
| Jepsv2p9.jpg | 1796-1802 |

Associating the collection numbers with each page image enabled links to be generating automatically between the field book viewer and our collections

Collections: database
Jepson 1771
Jepson 1772
Jepson 1773
Jepson 1774



> Jepsv2p3.jpg



University and Jepson Herbaria

Accession Detail Results

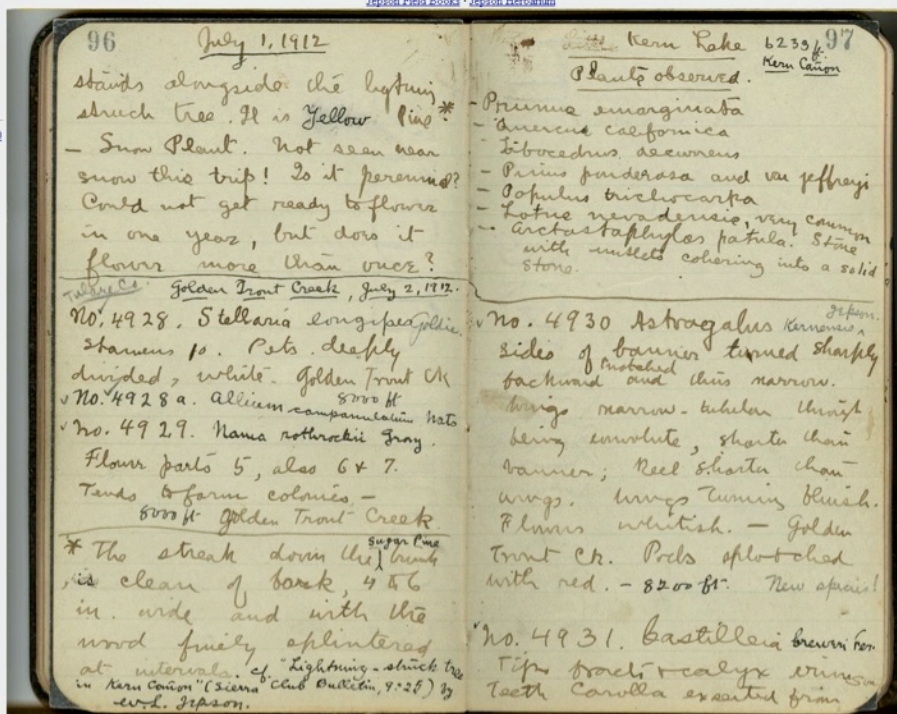
JEPS is the home institution for this record.
Please cite data retrieved from this page: Data provided by the participants of the Consortium of California Herbaria (ucjeps.berkeley.edu/consortium/; Fri May 20 15:37:22 2011).

Accession number JEPS2760
 Determination *Astragalus lentiginosus* var. *kernensis* 
 More information: Jepson Online Interchange
 Collector, number, date W. L. Jepson, 4910 , Jul 2 1912
 County Tulare
 Locality Golden Trout Creek - - Golden T
 Elevation 8200 ft
 Coordinates 36.366 -118.360 [BerkeleyMapper](#)
 Datum WGS84
 Coordinate source BerkeleyMapper

reproductive biology Data on label not transcrib
 publication Data on label not transcrib
 data in packet Data on label not transcrib
 color wings turning blui
 type Type: Astragalus
 E13

Voucher Information

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Numbered Links in Field Book Viewer take you directly to the corresponding collection record in our specimen database

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Links to specimen database

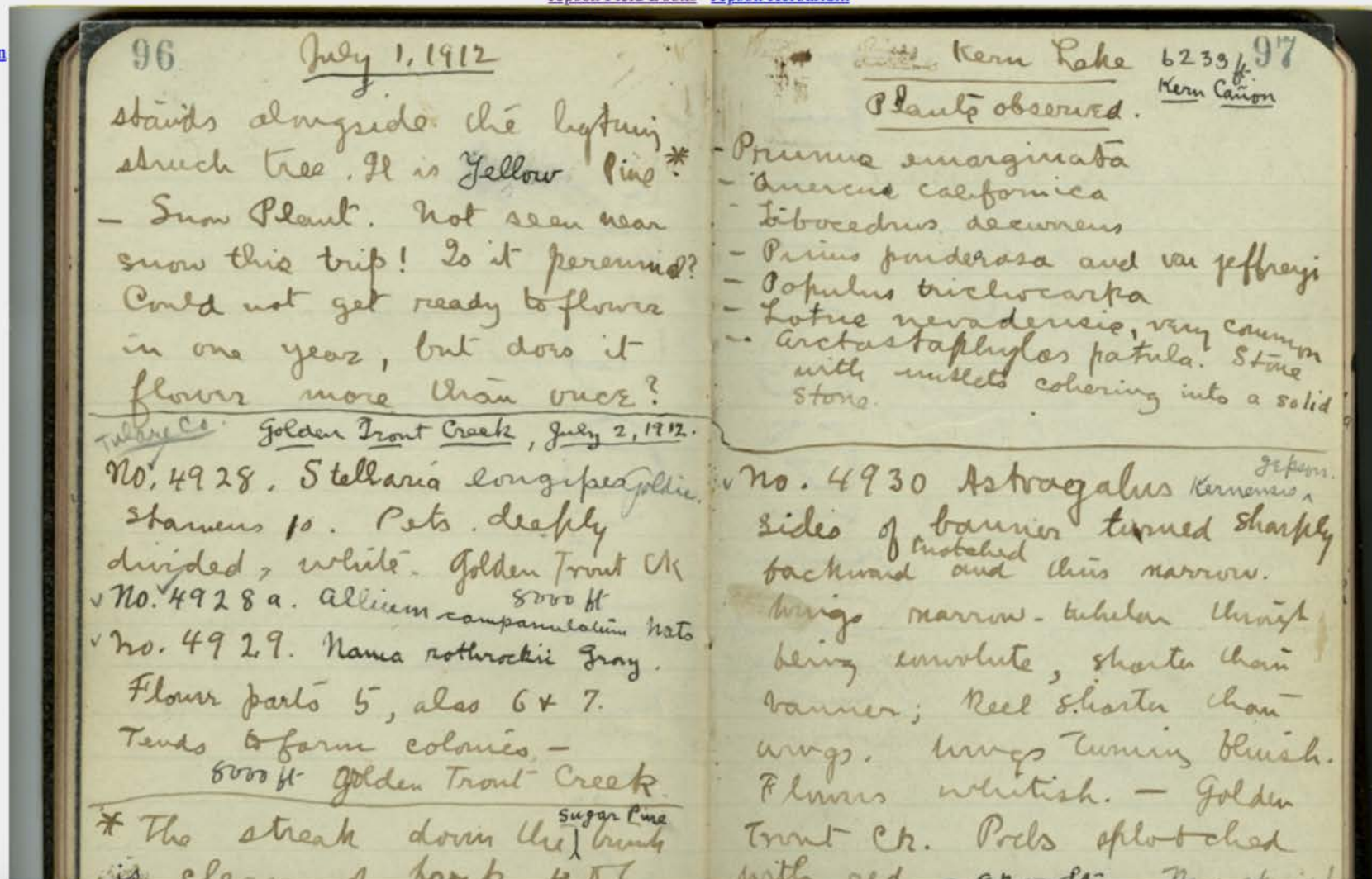
4928 4929
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Jepson Field Books · Jepson Herbarium

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Links to specimen database

4928 4929
4930 4931



Current Specimen Record display in CollectionSpace

select all

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JEPS43212

Family: **Montiaceae**

Major Group: **Spermatophytes**

***Lewisia pygmaea* (A. Gray) B. L. Rob.**

Collector(s) (verbatim): **W. L. Jepson**

Collector(s)

- **W. L. Jepson**

Collection Number: **3329**

Locality: **Mt. Lyell**

Madera / CA / USA

Collection Date: **Jul 16 1909**

Elevation: **11000 ft**

Description: includes macromorphology:

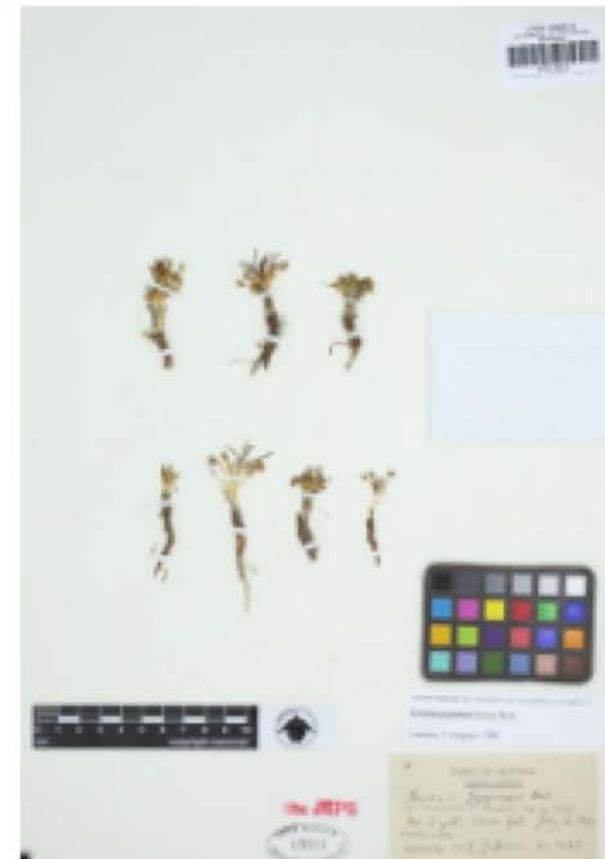
Phase: **Flowering/Fruiting**

Comments

- data in packet:

Last updated at: **2012-05-30T08:17:15+00:00**

[email a comment about this record](#)



Results

Facets

Maps

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JEPS43212

Family: Montiaceae

Major Group: Spermatophytes

Lewisia pygmaea (A. Gray) B. L. Rob.

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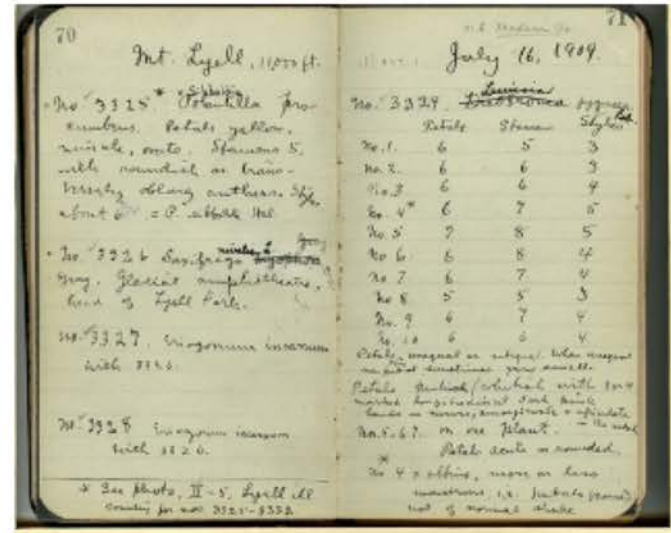
Phase: Flowering/Fruiting

Comments

- data in packet:

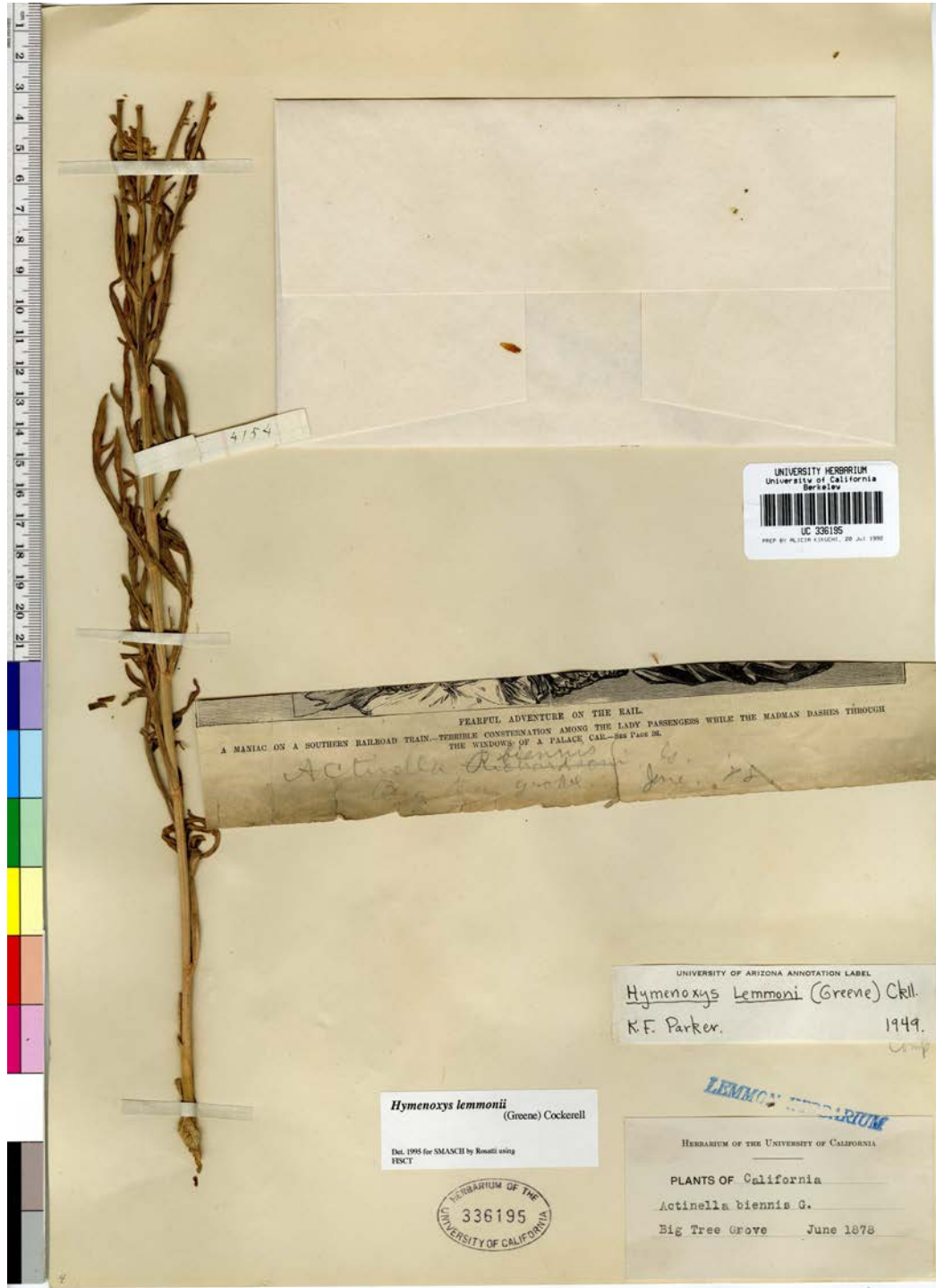
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If you have field books in your collection, they may be the missing piece of a natural history puzzle!



FEARFUL ADVENTURE ON THE RAIL.
A MANIAC ON A SOUTHERN RAILROAD TRAIN.—TERRIBLE CONSTERNATION AMONG THE LADY PASSENGERS WHILE THE MADMAN DASHES THROUGH
THE WINDOWS OF A PALACE CAR.—SEE PAGE 36.

Actinella biennis
Richardsoni Greene
Big Tree Grove June 1878

UNIVERSITY OF ARIZONA ANNOTATION LABEL

Hymenoxys Lemmonii (Greene) Ckll.

R. F. Parker.

1949.

Comp

Hymenoxys lemmonii
(Greene) Cockerell

Det. 1995 for SMASCH by Rosatti using
FISCT



LEMMON HERBARIUM

HERBARIUM OF THE UNIVERSITY OF CALIFORNIA

PLANTS OF California

Actinella biennis G.

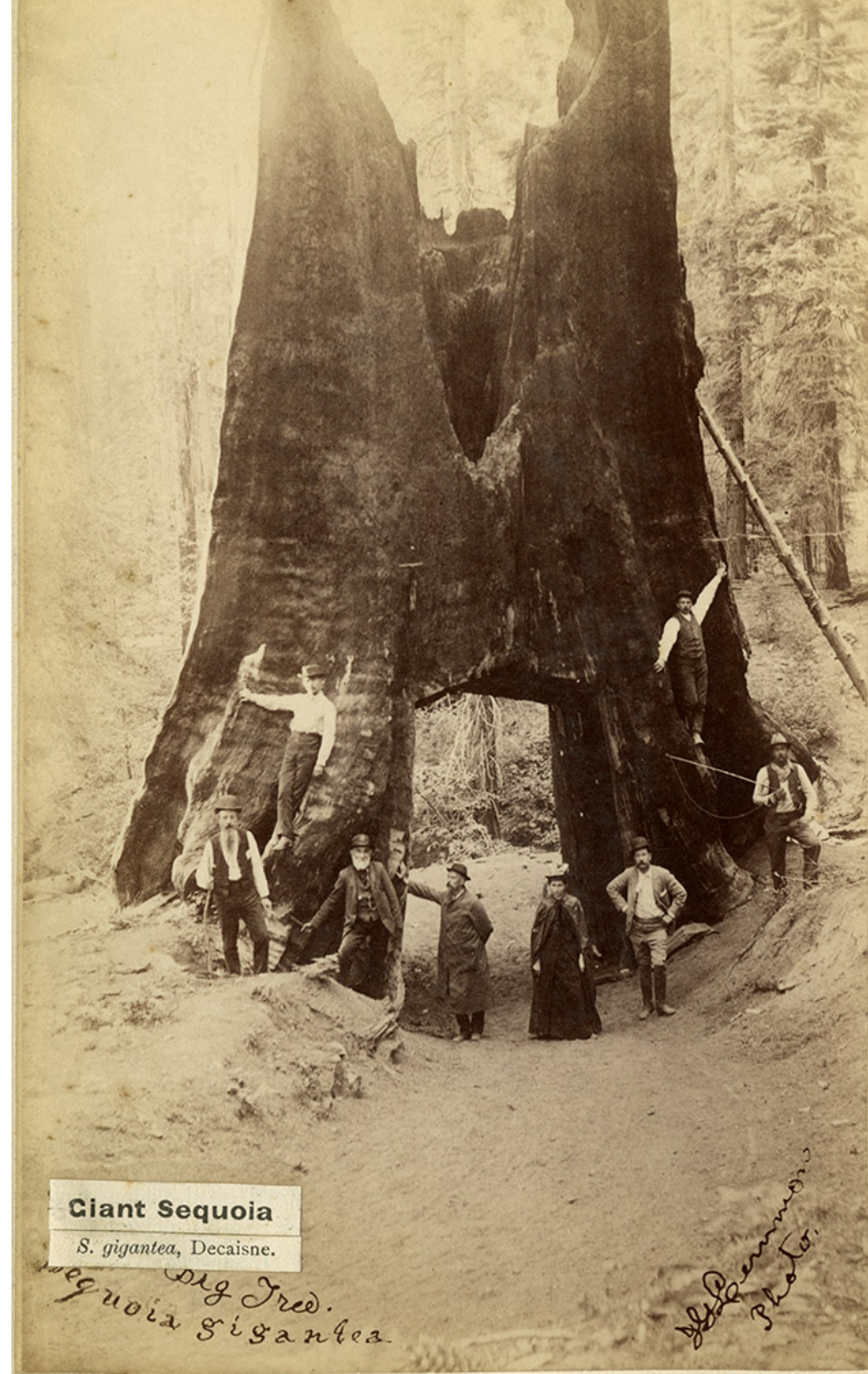
Big Tree Grove June 1878

We can make inferences about a collection locality based on information in our archives, but the Field Book is the definitive source of the actual location

Lemmon party in Tuolumne Grove, 1878

Questions?

Amy Kasameyer
akasameyer@berkeley.edu



UC Berkeley: Shaping our National Parks and Preserving a Century of Environmental Data

Christina Velazquez Fidler
Society of California Archivists
April 13, 2018

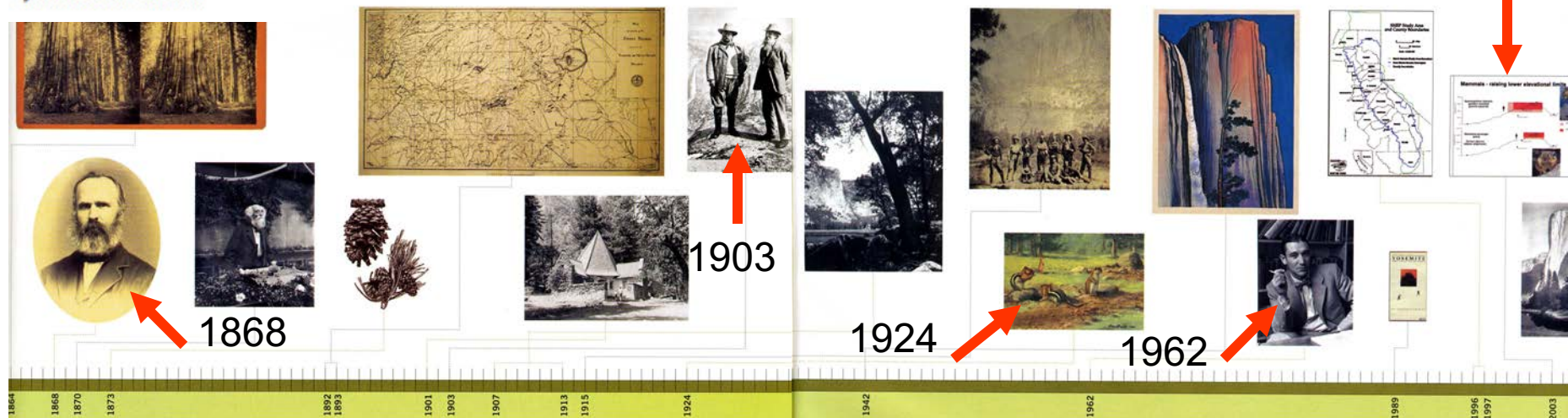


Disturbing Yosemite

By Kenneth Brower

a timeline of collaboration

2003



BERKELEY AND YOSEMITE NATIONAL PARK: BOUND SINCE BIRTH

1864 A STAR IS BORN For the first time, the federal government protected scenic lands for posterity when President Abraham Lincoln signed legislation creating the Yosemite Grant.

1868 YOSEMITE GETS A LITTLE BROTHER When the University of California was created by the Organic Act, State Geologist Josiah Whitney saw an opportunity for sibling symbiosis between Yosemite and the University. Data collected by University scientists and students in the canyons, meadows, and forests of the gigantic outdoor lab of Yosemite would be housed in University collections, and the University would publish Yosemite-related science—giving the nascent University academic street cred.

Today, a multitude of UC collections and museums embody Whitney's vision of UC as home to Sierra collections—including the Lowie Museum of Anthropology (now the Phoebe A. Hearst Museum), Bancroft Library, Jepson Herbarium, and the Museum of Vertebrate Zoology. Throughout the 20th century, research conducted by the likes of botanist Willis Jepson, zoologists Joseph Grinnell and Starker Leopold, forester Harold Biswell, and plant pathologist Daniel Holmes influenced environmental policy, not just in the Sierra but also in ecosystems around the country.

1870 A PROFESSOR MEETS A SAWYER Professor of geology Joseph Le Conte travelled with a group called the "University Excursion Party"—including one-quarter of the University's total enrollment—

across the Central Valley and into Yosemite, all on horseback, tin pans jangling all the way. At Sentinel Dome, nine days into the five-week trip, Le Conte wrote, "Such a sunset I never saw; Such a sunset, combined with such a view, I had never imagined." On his fifth day on the valley floor, Le Conte met "a man in rough miller's garb, whose intelligent face and earnest, clear blue eye, excited my interest" at the foot of Yosemite Falls. The next day the man, John Muir, joined the group as a guide. Muir and Le Conte became lifelong friends.

1873 YOSEMITE PINES TRAVEL Jeanne Carr, a self-taught botanist, early Yosemite explorer, and wife of the University's first professor of agriculture, Ezra Carr, planted Yosemite pinecones in Berkeley. "On the highest point of the grounds, but not the driest, I have put as tenderly as carefully as ever I put my babies in their cradles... thirty species of cone trees," she wrote to her close friend John Muir. Where exactly Carr planted the Yosemite pines remains a mystery, but it is assumed that they would not have thrived in an East Bay habitat.

1892-93 SIERRA CLUB AND UC PRESS LAUNCH Joseph Le Conte and his son, "Little Joe," an avid mapmaker and mechanical engineering professor, joined John Muir as charter members of the Sierra Club. That same year, the Sierra Club published the first issue of its *Bulletin* (still alive and kicking as part of *Sierra* magazine) and UC Press launched, subsequently publishing Sierra-related research by faculty in

geology, anthropology, botany, economics, engineering, geography, history, linguistics, and zoology. Le Conte the elder served on the Sierra Club's board of directors until 1898, and Muir was its president until he died in 1914. Little Joe led the club's map-making efforts and succeeded Muir as president.

1901 WHAT A WAY TO GO The night before the Sierra Club's first High Trip, Joseph Le Conte died of a heart attack in camp on the valley floor. His friends honored him with Le Conte Memorial Lodge, a library and education center built near where he died that remains in operation today.

1903 THE PRESIDENT PAYS A VISIT Fresh from a triumphant commencement speech in the unfinished Greek Theatre, President Theodore Roosevelt toured Yosemite with his old pal from New York days, University President Benjamin Ide Wheeler. In Yosemite, Roosevelt slept outdoors in a snowstorm on Glacier Point and bonded with John Muir. Wheeler opted to a reporter that the view from Inspiration Point was "equal to anything around his university campus." In 1906, during Roosevelt's presidency, Yosemite became part of the National Park System.

1907-13 TO DAM OR NOT TO DAM When the controversy over the future of the Hetch Hetchy Valley ignited after the 1906 earthquake, President Benjamin Ide Wheeler was pro-dam because the system, as it was originally conceived, would provide water to the East

Bay, and campus resistance to the project was somewhat squelched. In 1913 Congress approved the construction of a dam and reservoir on the Tuolumne River. O'Shaughnessy Dam was completed in 1923. To this day, spectacular photographs taken by "Little Joe" Le Conte of the pristine, turn-of-the-century Hetch Hetchy Valley are known in the Sierra Club community as "Requiem for Hetch Hetchy."

1915 MR. MATHER GOES TO WASHINGTON When avid Yosemite hiker Stephen T. Mather, Class of 1887, complained to fellow Cal alum Secretary of the Interior Franklin K. Lane about the state of the parks, Lane invited him to run them himself. As assistant to the secretary, Mather immediately organized a pack train excursion of politicians, business leaders, writers, and conservationists that traipsed from the southern Sierra to Mono Lake and back through Yosemite. The trip made converts of the participants and helped bring about congressional creation of a new bureau for national parks, which Mather headed until 1928. In Yosemite, he also worked tirelessly to improve park roads and facilities for visitors. During his last trip to the park in 1925, Mather's park friends threw a private party for him atop the Ahwahnee Hotel, which he had helped plan.

1924 ANIMAL LIFE IN THE YOSEMITE Zoologist Joseph Grinnell and UC Press published a landmark survey of mammals, birds, reptiles, and amphibians in Yosemite, *Animal Life in the Yosemite*. The survey, which started in 1904, remains a priceless snapshot

of animal diversity in the Sierras, and the collection of animals gathered (housed today in the Museum of Vertebrate Zoology) includes more than 20,000 specimens, 13,000 pages of field notes, and 2,000 photographs (http://www.cr.nps.gov/history/online_books/grinnell/contents.htm#plates).

1942 "NO YOSEMITE FOR YOU" During World War II, the University suggested an alternative to banishment for Japanese-American professor of art Chiura Obata, who had painted in the Sierra. Instead of dispatching him to an internment camp, why not arrange for him to live—and paint—in Yosemite? But the National Park Service, not wanting to tangle with the War Department, denied the request. At the end of the war, Obata returned to Berkeley, where President Robert Gordon Sproul had kept many of his paintings safe in the attic of University House, and Obata resumed teaching.

1962 NATIONAL PARK SERVICE TAPS UNIVERSITY OF CALIFORNIA In response to public controversy over shooting elk in Yellowstone, Secretary of the Interior Stewart Udall appointed professor of zoology Starker Leopold (eldest son of pioneer wildlife ecologist Aldo Leopold) chair of a committee on wildlife management. In 1963 the committee produced *Wildlife Management in the National Parks*, a watershed publication that determined the fate of generations of deer, elk, and bears in national parks around the country.

1989 YOSEMITE: THE FATE OF HEAVEN Journalism faculty member and MacArthur fellow Jon Else captured the beauty and tortured fragility of a national park that could be loved to death in *Yosemite: Fate of Heaven*, a film narrated by Robert Redford and produced for the Sundance Institute.

1996-97 UC WRITES THE BOOK When Congress requested a scientific review of old-growth forests and the entire Sierra Nevada ecosystem, it called on the UC Centers for Water and Wildlife Resources. The resulting massive four-volume *Sierra Nevada Ecosystem Project Report* is perhaps the single most comprehensive report on any mountain range.

2003 THE ANIMALS ARE RISING Staff of the Museum of Vertebrate Zoology began surveying the same areas in Yosemite that Joseph Grinnell scoured a century earlier to honor Grinnell and the museum's centenary in 2008, discovering that many animals had all scrambled to higher ground since Grinnell's time—doubtless decamping due to global warming.

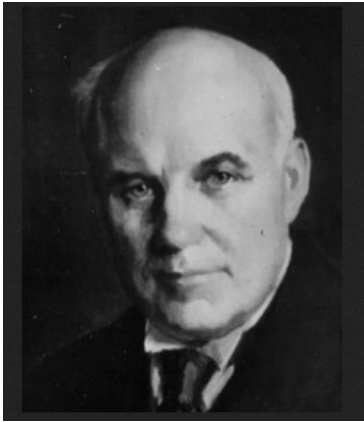
2005 SIERRA NEVADA RESEARCH INSTITUTE IS BORN When the long-awaited tenth UC campus—UC Merced—opened, the Sierra and Yosemite became the main focus of research at the Sierra Nevada Research Institute.
—Compiled by Meghan Laslocky from a text prepared by James Snyder, former historian at Yosemite National Park, and from notes of Steve Finacom, campus historian.

Joseph Grinnell 1877 - 1939

MVZ Director 1908 - 1939

- One of great naturalists / ecologists of early 20th century
- Founding director of MVZ at UC-Berkeley
- Trained generations of scholars
- Detailed field studies of species distributions
 - * ecological niche
 - * competitive exclusion
- Emphasized recording observations in archived field notes, taking photographs, and preserving specimens
- Promoted a conservation ethic based on the maintenance of natural processes





Franklin K. Lane
[1864-1921]

- UCB 1884-1886
- Secretary of the Interior at time of creation of NPS



Stephen Mather
[1867-1930]

- UCB class of 1887
- 1st NPS director, 1917-1929
- promoter, developer, and builder of the parks [C-P-R]



Horace M. Albright
[class of 1912]

- succeeded Mather as 2nd NPS director, 1929
- emphasis on wilderness values of parks 1890-1987
- UCB



George M. Wright
[1904-1936]

- UCB class of 1925
- assistant park naturalist, Yosemite 1927
- promoted science-based wildlife management in the parks



George M. Wright
Chief, Wildlife Division,
National Park Service
1929-1936



Recognized inherent conflict between human use, commercial or recreational, with maintenance of pristine wilderness

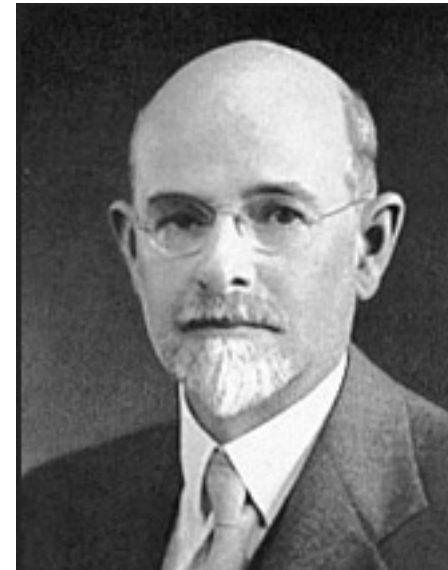
“Joint occupation of national parks by animal and human populations is prescribed by the organic laws which define national parks. Maintenance of wildlife in the primitive state is also inherent in the national-park concept. The conclusion is undeniable that failure to maintain the natural status of national parks fauna in spite of the presence of large numbers of visitors would also be failure of the whole national parks idea.”

[G.M. Wright, 1935, “Men and mammals in joint occupation of national parks.” Fauna Series

2]

Joseph Grinnell: the “father” of the science based education and management programs eventually developed by the National Park System

- advocated for the Parks as wildlife preserves – directly influencing policies subsequently established by Horace Albright and George Wright for the NPS
- advocated for the Parks as a venue to teach the public about the natural environment
- advocated for “wilderness,” where natural biological processes should be allowed to operate unimpeded (he was a strong, vocal opponent of federal policies on predator control, fire suppression, mining, grazing, timber harvest, and other commercial ventures within the parks and in adjoining National Forest lands)



ANIMAL LIFE IN THE YOSEMITE

AN ACCOUNT OF THE MAMMALS, BIRDS,
REPTILES, AND AMPHIBIANS IN
A CROSS-SECTION OF THE
SIERRA NEVADA

BY
JOSEPH GRINNELL
AND
TRACY IRWIN STORER

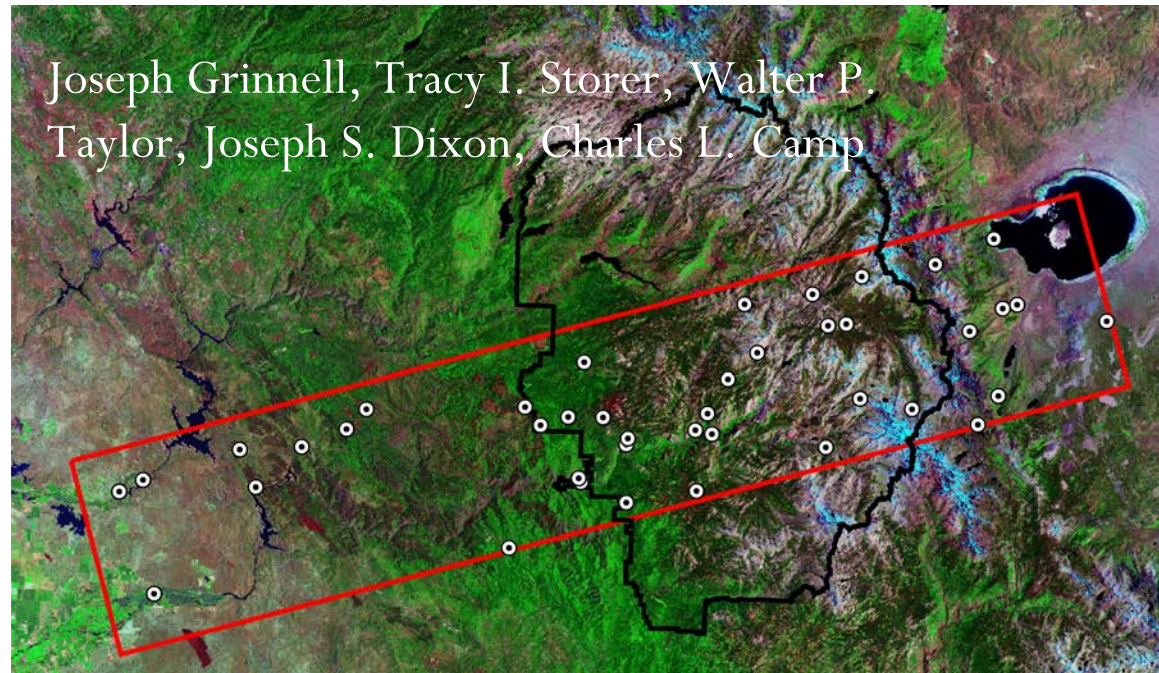
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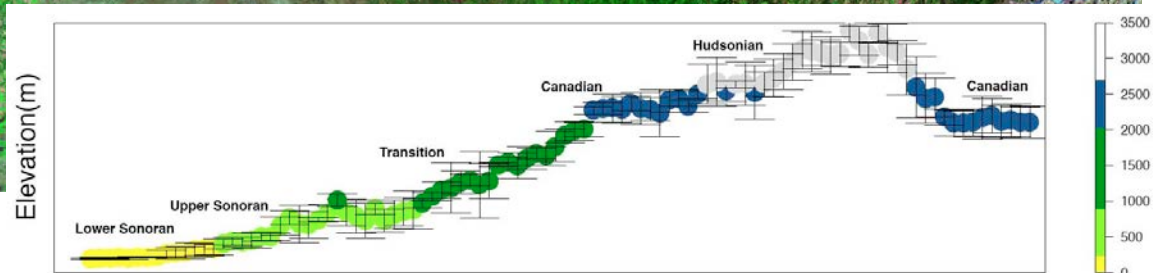
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BERKELEY, CALIFORNIA
1924

Yosemite transect

41 sites, elevational range 150 – 11,800 ft



Joseph Grinnell, Tracy I. Storer, Walter P.
Taylor, Joseph S. Dixon, Charles L. Camp



1914-1915

957 "man-days" in the field
~3,000 pages of field notes
4354 specimens obtained
~700 photographs



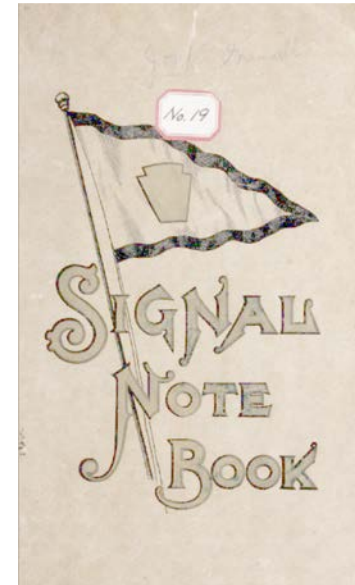
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Acquisition

Processing

- Arrangement
- Preservation
- Description
- Security



Collection Level

- Personal papers
- Standards: DACS, LCNAF, AAT
- Record: EAD encoded finding aid

Item Level

- Digital Object
- Standards: DACS, LCNAF, AAT, Arctos
- Record: MODS encoded XML file

Access


- Online Archive of California
- ArchiveGrid

Access

- EcoReader

Specimen Like

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Field Notes: Camp C.L. 1913-14, v556

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- Section 1: Marin, Sonoma, Mendocino, Tehama Cos., California 1913 [[view section](#)]
- Section 2: Marin Co., California 1913 [[view section](#)]
- Section 3: San Bernadino and Los Angeles Cos., California 1914 [[view section](#)]
- Section 4: E. base Turtle Mts, San Bernadino Co., Calif.; Arizona 1914 [[view section](#)]
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Section 5: West. Los Angeles and San Bernardino Cos., Calif. 1914

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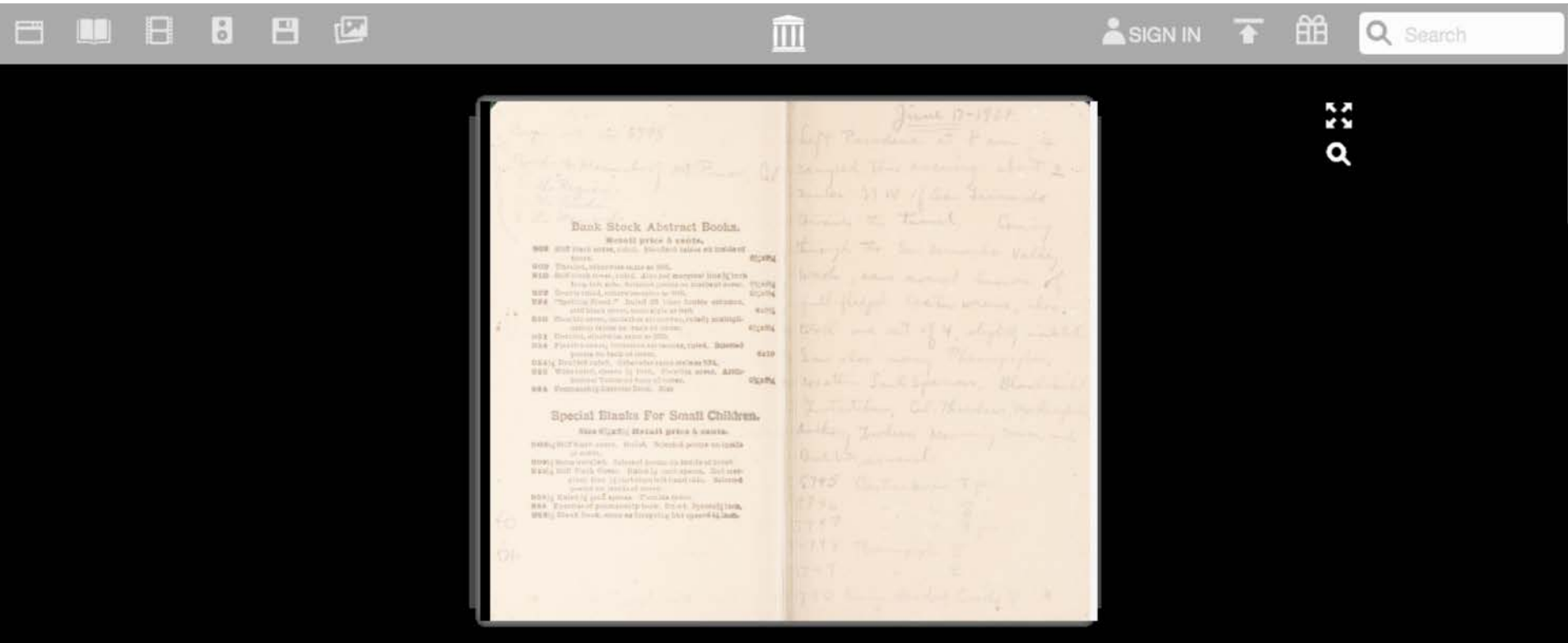
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Notebook #14: Mt. Pinos Expedition, 1904



Published 1904

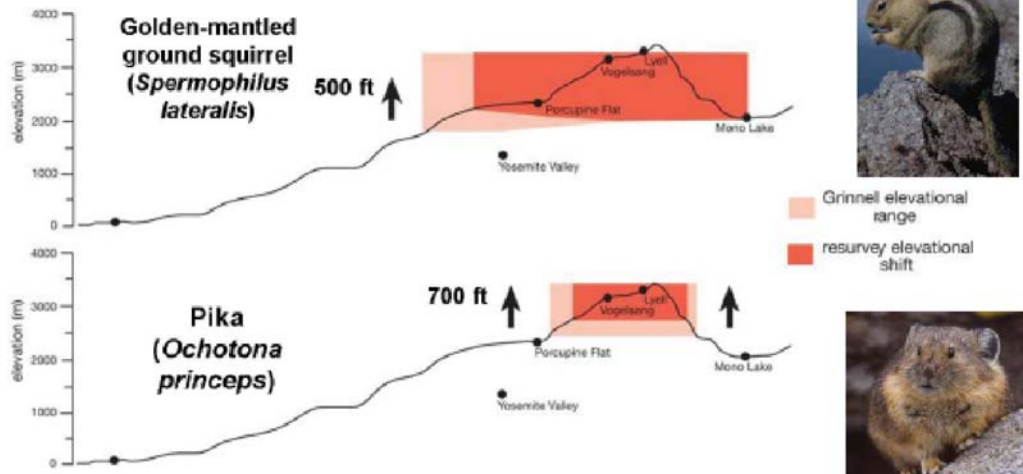
Grinnell Resurvey Project



Impact of a Century of Climate Change on Small-Mammal Communities in Yosemite National Park, USA

Craig Moritz,^{1,2*} James L. Patton,^{1,2} Chris J. Conroy,¹ Juan L. Parra,^{1,2} Gary C. White,³ Steven R. Beissinger^{1,4}

Upward Range Retraction in High Elevation Species:



Petaluma River Watershed: A Slough of Change

TUESDAY, APRIL 17, 2018

6:00 – 8:00 pm

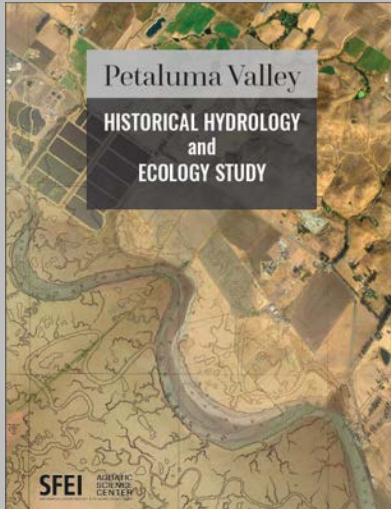
Petaluma Community Center at Lucchesi Park, 320 North McDowell Blvd,
Petaluma

Please RSVP: [REGISTER HERE](#)

Come learn about an exciting report recently completed by the San Francisco Estuary Institute (SFEI) and Sonoma RCD on the historical ecology of the Petaluma River watershed. SFEI will highlight interesting details about the history of this unique watershed and share insights about how historical data can be used to improve future management and conservation decisions. Anyone interested in learning more about the past, present, and future of the Petaluma River is encouraged to attend.

To read the full report please visit: <http://sonomarc.org/resources/>

QUESTIONS? Please contact Anya Starovoytov, Sonoma RCD project manager at (707) 569-1448 or email astarovoytov@sonomarc.org



This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement 99T34001 to Sonoma RCD. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency, nor does the EPA endorse trade names or recommend the use of commercial products mentioned in this document.

GRATITUDE

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