

FIELD BOOK I

SHERWIN J. CARLQUIST

E. confert. (DC) Gray.

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AGENTS FOR

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1951

1. January 20. S. of Carmel,
on U.S. 1. road cuts.
An Artemesia - Baccharis
scrub association.
Apparently with Baccharis
to 12-18" high, fl.
yellow-orange.
2. January 20. Pt. Sur.
on U.S. 1 road cut
w. Baccharis.
fl. bright scarlet.
to 12" high.
3. January 20. S. of Big Sur
St. Pt. - though spread
throughout, from Monterey
S. Occasional in
chaparral on granite,
various shaped
shrubs.
4. February 3. road
cut near Jalama
Ranch, always
seen on road cuts.
bush to 3' high.

5. February 3,

Between Jalama Ranch
and ocean — on
limestone road fill,
bush to 3'. corolla
light lavender

6. February 3.

Between Jalama Ranch
& ocean, — on limestone
road fill, bush low
compact, reddish bark,
to 1½'.

7. February 3

near ocean on Jalama
Road — on very rocky
limestone hill — apparently
an old burn. Associate:
Eriogonum, Artemisia,
toyon, Salvia. corolla color
of bracts varies from light
pink to scarlet, to 1½' high.

8. February 3. Above location.

to 1½' high (second
growth).

9. February 3

in shade
location, same as above.

February 3
10. In generally cooler
location, same as above.

11. February 3
same

12. February 3
same, only more soil
sunnier location. also
on old burn.

13. February 3
on rocky, yet with soil,
Huff above, coast, between
Concepcion & Arquello. In
Salvia - Artemisia assoc.

14. February 3
same. to 3' high.

15. February 3
same to ~1' high.
~~dicotyledonous~~ monocotyledonous.

16. February 3
same - flat on ground -
sandy - loamy soil
with nodules.

17. February 3
near Camp Cooke
entrance, on limestone
hills. Prostrate

to 2½ - 3' high fls.
pinkish (young) or
white.

18 ~~19~~. February 3
near Camp Cochrane -
in rocky soil.
In *Arctostaphylos* -
salvia - *Artemisia*
chaparral. To
4 - 4½' high.
fls. light blue.

19 ~~20~~. February 3
on *Casualia* - Pt. Sal
road - on patches
of limestone-fragment
filled soil, forming large
areas. with grasses,
clover, *Atriplex*, etc.

20 ~~21~~. February 3
near Pt. Sal -
on adobe.

21 ~~22~~. February 3
same

22 ~~23~~. February 3
Same!

2324. February 3
same

2425. February 3
same

2526. February 3
same

2627. February 3
Pt. soil ridge -
adobe.

27. March 31
Hills above Stinson Beach
+ Mill Valley -
adobe soil, dry pasture

28. same

29. same

30. same.

(reduced from
dry hillside)

with types of grass, *Panicum*
californicum, *Deschampsia*, etc.

31. March 31
Hills above Stinson
Beach - rocky
road cut (terrestrial)
in assoc. w. *Phacelia*
Baselaris, *Artemisia*
Sida, *Panicum*, etc.

32. same - on steep
rocky slopes, bushes
to 4' high.
33. March 31. Junction Bend -
on rocky road cut,
bushes to 2' high.
various, large blue-purple,
keel white.
34. same. (ave.)
35. In canyon ridge,
near turnoff to
St. Reyes road.
In *Ceanothus* -
Arctostaphylos - madrone
Pinus muricata assoc.
fls. deep purple.
36. March 31, same
shrub to 3' high, fls. pale pink.
37. same, low shrub
to 2½ - 3' high.
38. same - sprawling
low shrub -
- ~~39. on rocky side of~~
~~same as above with~~
~~fls. pale pink.~~

39. March 31.

Pt Reyes - (Calodactylus)
in sandy soil near
road - perianth
segments dark grey
purple. with white
translucent spots
nectaries yellow with
purple spots. Bubbles
forming on old
scale.

40. same (Cruciferae)
petals rose-lavender.

41. same - earlier
flowering induced
by slightly later
location (Scroph - Orthoc?)
2 anthers inlets above
2 single below
style protruding
3 caudate sacs. fl.
white

42. (Cruciferae) - same -
rocky bluff facing
sea!

43. (Amaranthus) - same.
orange blotches
in throat.

44. (Platystemon) - same.

45. (Ceanothus) bluff facing
sea - wind distorted
for :)

46. (Viola) same location.

47. (Vaccinium) same
location - wind
distorted for :)

48. (Juncus) - same
location.

49. - (Asteraceae) - *Polygonum*
killed on windward
side -) - same
location -
Small shrub - 84 in.

50 - (Caryophyll) -
same

51 - (Cyperaceae)
same)

52 (Manoptula) - same location

53. (Ranunculus) - same location

54. (Delphinium) - same location

55. (Comp.) - same location

56 - (Saminula) - same location

57. (~~Allium~~) - same location

58 - same location
(Armeria?) (Caryophyll)
(Compositae)

59 - (Comp.) - (Erio?) - same location

60 - (~~Allium~~) - ~~same location~~

Orthocentrus
- same local

61 (Cotyled) - same

- 62 - (grass) same
63. - (Castilleja) same
- 64 - same -
(Lupinus)
- 65 - (polyg.?) - same
- grande
- 66 - (polyg.?) - same.
- grande
67. (Baeria) ~~at~~ same.
- ~~68 (Baeria) same~~
- 68 - (Hydrophyll) -
same.
69. - Hills just S. of
Stinson Beach
on coast -
(Castilleja) -
road cut - rocky
soil.
- 70 Inverness Ridge -
(P. muscicola) -
young trees near
road cut on
stony ground.

21. April 21, 1951.

Sand Dunes of Monterey Bay,
west of Castroville.

Soil: sand - typical
dunes.

(Chenopod.)

72. same

(comp. shrub.)
shrub to 2' high!

(premature blooming)

73. (same)

(cushion rosette plant)

74. (same)

(polygonal rosette-type
plant.)

75. (same)

(Boragin.)

76

(same)

(Asteraceae)

(calyx lobes partly
whitish)

77

(same)

(Lotus)

- (same)
78. Lupine — bush
to 1 1/2 - 2 feet —
mostly rather low.
79. (same)
(yellow Abromia)
80. (same)
(lavender Abromia
sprawling perennial)
81. (same)
(Calsile.)
- 82) (same)
C. latifolia
- 83) (same)
Castilleja -
- 84) (same)
grass
85. (same)
grass.
86. April 21, 1951
field behind Marina Beach
Monterey Bay.
sandy soil, but not
pure sand.
(Dudleya)

87. (same) *Baeria*
88. (same) *Senecionium*
89. (same) *Lupinus* →
the one very common
around Monterey
90. (same) *Neurospora*
91. (same) *Phacelia*
92. (same) *Erysimus*
93. (same) - *Cichor.*
94. (same) - *Polygonum*

95. April 21, 1951.
Pinus radiata forest
near U.S. 1, going S.
from Monterey.
on *P. radiata* stems
(*Arceuthobium*)

96. same — in disturbed
places in *P.*
radiata forest

97. April 21, 1951.
Yankee Pt., S. of
Pt. Lobo, Rev. -
(*P. radiata*)

98. April 21, 1951.
S. of Pt. Lobo,
Near road cut,
(presumably in
disturbed area)
(June) - *Graphis*

99. Same
(*Erigeron*)

100. (*Diplazium*)
April 21, 1951.
US 1 S. of Palo
Colorado canyon

101. (*Marrubium*) -
Same.

102. On dirt road
which leads off US 1
at South border
Pfeiffer Big Sun Park.
on soil collected from
decomposing rocks,
exposed location
(Sanicula)

103. same
(Dendromecon)

104. same
(Erodium)

105. same
(Sphaeralis?)

106. same
Ceanothus

107. same
Ceanothus

108. same

April 22 Ceanothus

109. same
(moist shaded

(thick) location with
Quercus agrifolia

110. same - same moist
location
(Lathyrus)

111. same
(Liliaceae)
112. same
(Labiatae)
113. same (dry chapparral
(Adenostoma))
- 114 same (dry)
Arctostaphylos
115. same
(Vaccinium).
116. same
(Legume)
117. same
(Lotus)
118. south of Pfeiffer Big S
State Park near
occasional U.S. 1
(Comp)
119. same
(Eriophyllum)
- 120 same
(Salvia?)
121. April 22, 1951
near U.S. 1, between
Lucia + Pecos
Bluffs
Perennial herbaceous

at base (Jumbo)
in rocky situation

122. (Lupine)
same

and

123. (Lupine) -
Shrub ~ 2' high

124. (Lotus)
same - permanent
root

125. April 22, 1951
Road cut / S. of
border on US 1
bushes ~ 1-1 1/2' high
(Lupine)

In

126. April 22, 1951
Bluff directly overlooking
ocean, just N. of
Piedras Blancas
(Madras)

127. (same) (Orobanche)
Probably on
European Union
roots very close
to shore.

128. (same)
Eucalyptus

129. (same)
(Castilleja)

130. (same)
Stachys.

131. April 22, 1951.

(Vaccinium)
from P. muricata
forest on Purano
ridge - limestone
soil.

132. same - out of
Pine forest
w. Diplotaxis oak
(Lupinus)

133. same - (Rhex.)

~~134~~
April 29, 1951

1 mi. N. of Foster Memorial
PK, Ventura Co,
in heavy adobe
soil - hillside
pasture
(Lil.)

135. same (Lalo)

136. same (Lalo)

137. (Baccharis)

138. (Cichor.)

139. (Cichor.)

140. (Madia)

141. (Adiantum?)

142. (Grass)

Ammobroma
M. Hottelville

~~143. Hight
glow
(Heanok?)~~

~~w. Rhyn. Lamin
C. curvata, etc)~~

~~Happala trale~~

June 11. Forest Glen.
144.

in disturbed
location w. yellow
pines.

(Malacothrix)

145. (Eriophyllum)

canatum var.

achilleoides

- 146. *Cruce* (D-)
- 147. *Madia* ~~degeni~~
- 148. *Mentzelia*
- 149. - *Solanum* - ~~stems slope~~ etc.
- 150 - *Lupinus* ~~stems~~ -
rocky stream bed -
etc. 3,000

June 13

- 151 - 149 location
(*Senecio Greenei*)

~~2,900~~
3,550 ft. with *Lithocedrus*, yellow
pine, *Silene*, etc. on
serpentine.

- 152. thick (same)
- 153. *Phacelia* ~~concolorata~~
(1 mi. west of Wildwood)

- 154. *Ceratophyllum*
- 155. ~~pen~~ - same -
along stream

~~156. *Smilacina* - same -
along stream~~

156 on 36" (1) between
Peanut Junction
& Forest Glen
(*Crepis*)

157. (same)
(Carnica)

158. ~~June 14~~, 1951

3,300' - in bog.
below Selt Plateau
on road to Snow
Camp. (Bensonia)

159. same.
(Vancouveria)

160. Snow Camp meadow -
on slopes near
bog below abies
~~with~~ concolor
with Actaea, etc.
Dris purdyi.

161. (same)
(Anemone Seltidea)

162. (same)
(Calochortus
tolmiei)

163. ~~flower~~, in dry
location below a.
concolor trees
triennial root. (Bensonia)

164. Same as 160,
(*Juncus pumilus*.)

165. June 15, 1951
opposite Smith Creek,
on road from
Crescent City, about
5 mi from C.C.,
just past Redwood
grove, on road cut.
(*Senecio Bolanderi*)

166. (same) *Eriophyllum*.

167. (same) *Eriogonum*

168. near summit of Oregon
A.M., 13,000 ft., on
road to Sandberg.
~~leaf~~ - in Darlingtonia
filled steam.
(*Helenium*).

169. near summit below,
in dry association
(*Senecio*) - pine &
Pseudots, Arcto, etc.

170. Summit Oregon int.
13,000 ft. -
(alpine - *Utrac* Comp.)
- assoc. with 169.

171. (same)
(Cichoread camp)

172. (same)
(Cichoread camp)

173. - (same)
(Arctica)

174. (same)
(Bohemianerhizer)

175. into West of Waldo -
on road descending
Oregon Mt. to US
199. from near
summit down, not
reaching flats. With
Lomatium, Arctostaphylos
Fry pine - Pseudotsuga
forest. complex
chaparral assemblage

Oregon

~2500'

on and near
road cut
(Sarcocolla Pedunculata)

176. same
(Lomatium Howellii)

177. in *restioides*
colonies further
Lans Oregon
mt. Otherwise
Sintgal. w. forest
including *Agave*,
~~Hebe~~, pine,
Pseudotsuga, etc.
(*Vancoveria*
aurea)
Oregon.

178. in *Darlingtonia*
bog near flats beneath
Oregon mt. On
West side of road,
opposite Whiskey
Creek. With
Darlingtonia, *Halenia*,
Rudbeckia, *Lyppii*
pedic, etc.
(*Narthecium*).
1750'. Oregon.

179. (Same)
(*Rudbeckia*
flavescens *subsp.*)

180. same - dry
flats directly
adjacent to
Dunham's
bog (*Helium*
voluense).

181. (Chaenactis)
June 16, 1951. Rocky
flats between
O'Brien + Cave Junction
w. *Pinus jeffreyi*,
Crucifera (*buxifolia*),
etc.

~~182. near local pool
near O'Brien.
similar terrain to
above.~~

182. on road to Happy
Camp from O'Brien
~~near~~ on banks
near California-
Oregon boundary.
(division)

183. rocky banks
on road as above,
only with *Lygus*

associate - Haluctia, etc.,
184. (*Senecio meridensis*)
- as above. - to
summit.

185. (*Onobancha uniflora*)
- at summit - at N.
boundary of Grant
Nat. Forest. on
rocks, under
L. wooding above.

186. (*Crepis*)
(*Senecio*)

187. on and near summit
of Little Grayback
(6140'); with
Phlox, Sedum, etc.
in serpentine (?) rocks
outcrops. Siskiyou Co.,
Calif.

188. Allium - on Little
Grayback, about
5500', on flats -
with grasses, *Crepis*
etc.

189. same - on
little gray beds
near road,
under *Litocedrus*;

190. same
with *H. marginata*
& *Dioscorea* under
Litoced
5100'

191. same - lower
elevation
(*Ribes nanakali*)

192. (same)
(*Ribes lacustis*)

193. (same)
(*Ribes tibbi*).

194. (same) (on Bala Lake Rd)
(*Quercus glandulifera*)

195. lower down on
Bala Lake Rd,
near stream
4,500'. w. *Parmelia*
Sarcocolla etc.
(*Tanella*)

196. on flat below
Bala Lake near
side of stream, with

Senecio (11)

197. June. 19 (Tuesday)
under Pine ~~in~~ in
Pt. Lobos Reserve.
(Blomeria). With
Diplazium Plum, etc.
& Eriophyllum, etc.
198. Same. also under
pine, but ~~near~~ on
marine bluffs on
Granite Pt. Pt. Lobos
Reserve. (Calochortis)
199. Eriophyllum from
same association.
200. Pt. Lobos Reserve -
(Caryophyll) -
on rocky main
cliffs, with Dudleya
& Engelm glans.
201. ~~at~~ between fence
on N. boundary of
Pt. Lobos Reserve
& adjacent private
road. in calcareous
stratification
(Madia)

202. same (Grindelia)

203. same (umbelliferous?)

204. same. (Navarretia)
(larger plants
branched)

205. same (~~polyploid~~
~~lythrum~~ ~~lythroides~~
~~adansonia~~)

206. same, (Plantago):

207. in adjacent
meadow, inside
fence of Pt. Lobos
Reserve - common
as scattered weed
(Onopordium)

208.

209

210

(Eriophyllum)

from Eriophyllum -
antennaria - Castilleja
latifolia, etc.
assoc. along
hillside,
facing sea. between
Pt. Colorado
Canyon + Sand Dunes

north of Little Sun R.
211. June 19, 1951.
(*Madia radioides*)
on open spots
in slopes beneath
Umbellularia +
Platanus; w.
Halodiscus, Agave,
etc.

June 20, 1951.
212. 2 mi. south of
Pfeiffer Big Sun State
Park (Alfaro
California). with
Baccharis, Toxicum
dendro, Artemisia,
Salvia, etc.

213. (*Onobancho fasci-
ulata*). from road
cut about 1 mi S. of
Tone Canyon; below
Partington Ridge.
W. Artemisia, Lotus,
Lupinus, Eriogonum,
~~etc~~ Baccharis

214. same (Phacelias)
215. same, only in
location fairly seen
with Dudley, Baccharis
Diplazium, Salvia,
Lotus. (Polemoniaceae)

216. same assoc.
(Convolvulus
occidentalis Gray).

June 20, 1950.

217. Bend, about 1 mi N. of
Monrovia Rock
w. Lupinus, Fumaria
etc. (Suaresia?)

218. same (comp.)

219. same (Fumaria)

220. same (Atriplex)

221. June 20.

sand flats
5 mi N. of Ocean
-w. Salvia, other
below
(Penstemon)

222. (same)
(Polanoma)

223. (same)

(Comp.)

224. (same)

(Comp.)

225. (same)

(Polanoma?)

226. Sand dunes

surrounding

Osoflaco Lake,

S. L. O. Co.

(Habitat)

227. same

(Phacelia)

with lupinus

Antennaria, Salvia,

etc.)

~~228. (same)~~

~~same location~~

228. same location

as 221-225)

(Habitat)

229. Swamps, grass

surrounding

Osoflaco Lake,

(Habitat)

230. (same) (Helminth)

231. (same) - succulent
comp.

232. (same) (Pot.?) -

231 + 232
assoc. together
on Juncus
(fin) ground.

233. on limestone face
of Nojiqui Falls.

June 21, 1951

(Boyskinia?)

234.

June 27, 1951

on road cut (rocky
calcareous)

in Latigo Camp about
300' (Haplopyrum?)

235. same - Erigeron

w. Yucca whipplei,
Erechtia salvia, etc.

236. about 15 mi W.

of Gillette, near
Funi, roadside, (101) -

E of on Calcareous
rocky soil -

W. Antennaria calif
Baechman's silulana
Atriplex. (Cretaceous)
237. same - on
marine limestone
bluff.

238. 1 mi. W. of
Las Cruces on
l. on calcareous
mts. -
(bush Peruvian)

239. same
Eriophyllum
confertiflorum
Bark 238+9 in
shade of oaks,

240. 1 mile from
Coast at Jolene,
(Perezia microm-
cephala) on
predominantly
calcareous rocky
soil, near
road cut. W
Antennaria

californica

Salvia leucophylla

241. June 28, 1951.

Surf. sand dunes.

w. *Mesembrythemum*
crystallinum

Abronia maritima

Haplopappus venetus,

etc. on roots

of *Haplopappus*

venetus. (Orobanch.)

242. same location.

(Crucifera)

243.

same location.
~~*Mitacanthus*~~ *meane*?

244.

same. *Amblyopappus*
pusillus.

245.

same
Abronia maritima.

246.

same

(*Stiptarionis*
~~*virgata*~~ " *virgata*)
- further inland

247. case - on

Juncus n. -

ocean - w.

Abouia

mantia.

(Convolvulus
goldanella)

248. Helixida 2 mi

s. of surf. -

w. Juncus

Scoparius, Boecklin

Pilensis, Duple

Castilleja,

(Eriophorum

strachanifolium)

249. Mandella

crispus.

4 mi. s. of surf -

w. Juncus scoparius

+ (Eriophorum?)

250.

3 mi. s. of surf -

Lupinus -

w. Eriophorum

Francis, Stroph.

Paspalum, *Burkholderia*
etc. on sandy soil.
June

251. ~~July~~ July 28, 1951.

on S. mt of
Benton Mesa.

About 1 mi. n. of
Lompoc on turnoff to Camp Cooke -
Carmelita Rd. in

sandy, rocky soil.

W. *Quercus agrifolia* -
fulva, *Adenostema*,
Lotis, *Eriogonum*,
Paeonia, *Phacelia*,
etc.

(*Monardella*
undulata).

252. same.

(*Coryphantha*
filiformis).

253. same, only in
calcareous, not
sandy soil.

w. *Quercus*,
Rhus (*divinifolia*),

Phacelia
(*lucida*).

254. on road at -
sandy - calcareous
soil - w. lupinus,
Brassica, etc. -
on road to Co. Alamo
near pt of junction
with Casimira -
Cay Lake Rd.
(Gomphos Joungfouii)
a few pointed
leaves
seen)

255. Marsh near
southern tip of
Guadalupe.
on fringe of
marsh w.
Carex, Mimulus,
etc.

256. on Sand Loma
W. of Guadalupe
(white thorns)
fls. white.
w. lupinus,
Erigeron, etc.

257. Same location!
(Crotogeomys).

258. same location
(Aster?).

June 29, 1951

259. on sand dunes,
5.6 mi S. of Ocean
between State Hwy
1 + S. P. tracks
and S. P. tracks
just S. of location
is sign, "Callender",
(Pholisma)

260. Same (Cichor.)

261. Same (Lupine)

262. Same (Monardella)

263. Same (Potentilla)

264. Same (Dudleya)

July 22, 1951

265. Santa Barbara
about 1/4 mile W of
harbor and Marina
Rm - in heavy bank

(*Henryana fasciculata*)

266. Maine bluffs, about
1 mi. W. of Sta Barbara
harbor on Maine
Dr. (Zauschneria)
in soil w. limestone

267. Maine bluffs, about
2 mi. W. of Sta B.
harbor on Maine
Dr. on limestone
road out cliff faces and
adjacent disturbed
areas rich in limestone
(*Malacothrix saxatilis*)

Feb. 6. B-Cfa
associates of *Phacelia*
Douglasii var *Cryptantha*

268. in red loam of Sta
Barbara plain s. of where
paved road ends
with 1224.
Haploxyphus.

269. same, Gracia

270. same, shrub,

271. same, shrub,

272. same, shrub,

273. same, Crucifer

274. same, Boraginaceae
(Cryptantha?)

w. Mesembryanthemum crystallinum,

275. Phacelia

276. umbelliferae

278. Hds. 24 mi. E. of
Rosario — red, rocky
soil — w. edge
Suaresia sp. (shrub)
Dudleya (succulent)
(Crucifer)

279. Calandrinia (succ)

280. shrub

281. shrub

282. Socorro — 5 mi. S.

Baeria

283. Phacelia

Top of ridge between
 San Quintin + ~~San~~
 Socorro. W. Machocum
 Challa, Enalis
 Smurdsia, Lagras
 Dunder, Lyium
 Penillera, Eoch
 284, same. Sendero

285. ~~284~~ March 28, 1952.
 Near bottom of grade
 down into Tracy
 (speed. reading: 3541.9)
 In pasture beside
 road. W. Avena
 Festuca, Phacelia
 Erodium. ~~also~~ add be
 (Monolopia)

7 mi
 W of
 Tracy

286. March 28, 1952.
 between highway 65
 + railway on railroad
 right of way, W.
 Avena, Erodium
 Pissinidia, Phacelia
 Silene
 of ~~Patterson~~ 3.2
 mi N. of ~~Tracy~~

(Monolopia)

287. (*Ps. parsonsii*)

In wheat field
today loan reddish
soil with *Monolopia*
major (286), *Phacelia*
acuta, *P. douglasii* (?)
Erodium caput-medusae,
Arenaria, *Caryophyllus*,
Arenaria.

8 mi north of Tulare
Kern Co. ~~California~~ on left
East side of Highway
65.

March 28, 1952.

288. *Monolopia stricta*
March 30, 1952 -

in open field, 2.6 mi.
west of Blackwells
corners, 1 mi east
of Lost Hills, in
dry wash to cracking
loan containing gravelly
quartzite. With

Arenaria
douglasii
also w.
290

Erodium caput-medusae
Monolopia
289 almost to
mainly.

grows in more
open groups not
in dense stands like 289.

289. *Monolopia*. same.

grows in dense
stands,

290. *Lichonaceae* sp.

291. 7 mi north of
Bradley - Bradley -
Jolon Road.
(Pentacta).

with *Montia* on
moist slopes under
neath *Quercus*

lobata, *Ribes*, *Plus.*

on decomposing limestone -
March 30, 1952

297. March 30, 1952.

1 mi. E. on road to Bays
from Bradley - Jolon
road. (*Monolopia*).

With *Artemisia* *Junglinsii*
Beris, *Erigeron*

are ~~just~~ *Penstemon*
astragalus etc

Quercus lobata.

289.

28

293. April ~~March~~, 11, 1952

Eriophyllum multicaule
open hill, ~~top of~~ soil
sandy with
largely calcareous
fragments. With

Senecio
Hypoxypus (aricae
aricae) Orthocarpus
purpureus,

^{Tillandsia}
^{erect} Polygonaceae (see
previous collection)

Plantago erecta

Phacelia

Stemodia "Bloodman" -

Potentilla, 1 Brown

Plagiobolus

Phacelia Douglasii

Eriogonum, bush

shrub. (look up)

Speed. ~~erect~~

Speed. ~~erect~~: Gravelly:

4.0 mi. N. of

San Jacinto Lake turnout

294

Venezuzia
 1/2 mi. W. of Gavite
 pass, (butte - narrow
 east) - S. facing
 slope - forming a
 dense thicket under-
 neath *Q. agrifolia*
 w. Montia, *Pholisma*
Artemisia californica
A. vulgaris,
Salvia mellifera,
Dentaria, etc.
 April 11, 1952.

295

April 11, 1952

E. Wallacei.
 500' east of Boron
 between Highway &
 R.R. tracks -
 reddish gravelly
 sand.
 with *W. bileyi*, *Lycium*
Erythronium
Oenothera
 + *E. Pringlei* (mainly)
 succeeding moss.

April 11, 1952
296. Same - E.
Pringlei.

297. April 11, 1952
Same - mule

298. - same
Coneopsis.

299. ^{same} Nemadaden.

300. April 12, 1952
8 mi. N. of Bandown
- in hybrid - Lanea,
etc., associated
w. Oenothera
Echoltzia, etc. -
decomposing greenish
stone.
(Mimulus, holosericeus)

301. April 12, 1952
(Euphorbia, etc.)
Fremontii)

minion
Stoddard Well -
(speed road = 58.8)

W. Eriodum Lots
Phacelia Cypripedium
Brodiaea, W. Eriodum
Anemone
Larrea tridentata

302. April 25, 1952

(Ps. Heermannii)
in P. sabidosa assoc.
on serpentine (bleb-
bed) - W. Conolly
adornatum,
Phacelia corymbosa,
Gilia capitata, Erodol-
ia, Chaenactis
glaberrima, Lupinus
(see specimen) cuneifolius
(see specimen) Dudleya
(see specimen) etc.)

6.9 ~~7.7~~ mi. N. of Coulterville

303. April 25, 1952
1.5 mi. W. - 1

Saxifraga -
(*Lasiantha glaberrima*)
renal pool - w.
Baccharis fremontii &
Downingia.

304. April 25, 1952
6.1 mi. N. of
Bogby, (4. miles -
0.5.1) - (Ps.

Hernandaria -
w. *P. submissa*
Quercus, *Erica* /
Juncus, *Adiantum*
Eriophyllum confertum
Yflora, *Galium capitatum*
Filago, *etc.*
not serpentine -
rocky reddish

305. April 26, 1952.

Eriophyllum latifolium -
shaded slope of
canyon, on somewhat
distributed soil, on
N. side of road
in *Quercus agrifolia* -
Aesculus hippocastanum
assoc. w. *Sambucus*
crassicaulis, *Stachys*
vulgaris, *Boerhaavia*
pilularia, *Edimontia*,
Roridaria capitata,
Plus diversiloba,
Mimulus, *Symphoricar-*
pus, etc.

306. April 26, 1952

(Mondopin grounds)
on road cut
rocky soil, 1.3 mi.
below Hedberg
Pass summit on
Watsonville side,
~~the~~ in
Pagratia - *Sequoia*

association w.
Ceanothus leucosepalus
Populus, Baccharis pilularis
Asteraceae californica
Rhus Divaricata
Gnaphalium purpureum
etc.

307. April 26, 1952.
(Eriophyllum stramineum
wadefolium) 1 coat,
~~and~~ sand dunes, directly
west of Castroville.
On seaward face of
dunes, in the belt of
shrubbery closest to
the sea. With Hypo-
pappus ericoides,
Lupinus chamaecrista,
Castilleja latifolia,
Franseria missouriensis,
Mesembryanthemum
edule, Senecio
etc. (earliest
flowering - most of
flowering in May, June, etc.)

388. (*L. staede*
seven stamens)

Granite Canyon (not
just N. of Palo Verde
Canyon)

(southernmost limit of
this variety of *staede*)
(seen intermixed with
individual referable
to var. *antennaria-*
folium) -

L. lupinus arboreus
Lotus scoparius

Antennaria californica

Corethrogyne sub-
phylla Mesem-

lyanthum edule
in *fruticosa*

(grazed) soil).

309. *Eriophyllum*
stuedradefolium var.
artemisioides
April 27, 1952
edges & faces of
pluffs on unweathered
granite - w.
Eriogonum (D-leaf)
Eriogonum glaucum
Artemisia californica
Layia platyglossa
Eriogonum, *Cirsium*,
(etc.)
(Piedras Blancas)

310. April 28, 1952.
Pseudotsuga ^{*E. laurifolium*} (*helsoniana*)
1.7 mi. E. of Democrat
Spring. in association
of *Pinus sabiniana* -
Quercus Douglasii
on fistuliferous sand -
poor granite areas
with *Bromus*, *Plantago* -
Cotula, *Senecio*,
etc.

311. April 28, 1952

(Eriophyllum arborescens)

4.3 mi. E. of Dan

Hot Springs,

on disturbed gravel

Scour. slopes with Chaenactis
gracilis, Gilia

capitata, Salvia

columbiana, Baccharis

gracilis, in a

Pinus - Sabina

quercus Douglasii

Leucostichus curvatus

association.

312. April 28, 1952

0.9 mi. W. of E. arborescens

Hobbs Hot Springs, E. of Dan

Hot Springs, on

Haywire 178 -

on hillside of

Heermann's granite

among large granite

boulders w. P.

agrippifolia, P. Sabina

descurii, Lythrum

caudatum, Baccharis

Adiantum bisantherum
Brodiaea, Plantago
erecta, Galium
columbianum,
Cryptantha etc!

313. April 28, 1952.

(E. ambiguous)

Redrocks Canyon -
(speed - 59.8)

on sides of ridge,
in talus + ~~grass~~
occasional on

sandy flat below -
w. E. Wallacei

Syntherisma

Fernandii, *Ephedra*

Oilia, *Ratibida* (various)

~~etc~~ *Minuartia bigelovii*

Nana *Jensenii*

Cryptantha, *Escholtzia*

Hesperis, ~~etc~~

Chrysanthemum, *inflatum*,
etc.

Carnea *tridentata*

314. *Erigeron*
Pilifer

~~315.~~

31st. Syntidagappet
Lemmonii

316 G. Werneri

316 *S. confertiflorum*

317. Friday May 16.

E. japonii
15.3 mi. W. of
Patterson on
Arroyo del Puerto
road. w. Pines

Sabiniana(?)

Quercus (Imray?)
- lobata? -

Juniperus (occiden-
talis?)

Dicentra Brown
rubes, Aplopappus

—, Godetia

Lagotis
media, etc.

318. *Juniperus* May 11 -
(*macrocarpa*
compressa)

speed read: 411.0

w. *Quercus lobata*;

Pinus Coulteri

Ceanothus undatus

Adiantum fasciculatum

Bromus; *Alysicarpus*

Castilleja

Salvia columbiana;

Agave; *Lesqueris*

road cut

~~319~~³¹⁹. *spec.*
Lythrum - ?
(*Lythrum* . x *Lythrum*)

320

~~321~~. Friday May 16.

(Eastwood's canyon)

on dry hill slopes

11 mi. W. of Patte

in arroyo del Puerto

with *Eriogonum*

Achyrocline (*Stenotaphrum*)

linearis, etc.

321. *E. lanata* var.
grandiflora
Just 1 for Lanet.

323. *Bartera multiradiata*
August 21, 1952.
Along fence P.E.
at ~~top~~ of way between
San Kina Avenue
West Drive + Virginia
Rd. on Watling
Drives with weedy
erect stems otherwise
forming a closed stand.

322. *Crucifera* Nevill
August 3, 1952
Sta B. Bot. Garden

323 ~~E. lanatus~~
E. lanatus
April 28, 1953
- same loc. as 312,

324 ~~lanatus~~

325: E. confertus

326: E. confertus?

327: E. confertus

same loc.

5? mi S. of

Coulterville

49. D. Douglasii

D. sabulosa,

Q. wislizenii

Quercus

pers

328: E. ? discoid

^ (confertus?)

w. E. lanatus

Protuberans

Clavotus

P. Gibson

Eurodictyon
Chamisso

one tube below
road 2.2 mi.
N. of Bay
49,

329 April
Fort Tejon

ambigua

Adansia

Chrysanthemum

Baccharis

Scirpus

with Salvia

nesta

Columbina

330 E. compact.

331. — large-leaved
umbel

332. — small, finely-
divided

333, May 14, 1953.

Gnaphalium longior
1.5 mi. W. of El Portal,
in talus ^{100'} of canyon ^{above}
#140, with *Acacia californica*
Pinus ponderosa, *Q. douglasii*

♀ ———
Phacelia equa
Streptanthus tortuosus
Cheerastis glaberrima
Arenaria Douglasii

334, S. confert. May 14,
1953. 2 mi E. of

Midway on Hwy 140,
W. of ——— (above)

Ceanothus cuneatus
Adenostoma, in

brush on granite of
road cut.

335. ~~May 14, 1953~~

~~El Portal~~
E. stachyoides,
~~Pinus~~ *Pinus* ~~do-~~
~~nan~~

336. 28. July 1954

E. lanatus arach.
On rocky edges
marine bluffs;
w. E. Stachan
Erignan glands
America, Castilleja,
Dudleya.

Little River, Mendocino Co.,

337. April 2, 1955

Eriophyllum lanosum
top of gravelly mesa,
10.2. mi. N. of
~~San Val~~ Nellis N.F.
Base entrance
Clats. Co., Nevada.
Juncus *Fraseria densa*
scrub with
Rafinesquina nevadensis,
Lesquerella
Palmeri, *Pectocarpus*
linearis.
Plantago serotena

6. 338. April ~~5~~ 5, 1955
Sito. confertiflora.
In rocky reddish
soil, hills above
San Rafael Ave.,
"Pleintridge", Panama
with *Adenostoma fasciculatum*
Plus, ^{including} *Nicotiana*
glauca, *Eriogonum*
fasciculatum.

sc 339-342 San April 31
Benedicto I, Mexico
343-348 Bernes love,
May 1 Socorro I.

349-361. Ascent of
Mt. Erema, Socorro I,
May 2

362-368. Academy Bay,
Socorro I, May 3

369-370. Olympia's
love, May 4,
Socorro I.

371-382. Bernes love,
Socorro I, May 3

383 - 389 -

Clamor I, May 7.

390 - 397 -

Clamor I, May 8.

398. *Wyethia ovata*

May 13, 1955.

on talus slope

below road, in

shade of *Pinus*

ponderosa forest,

Clowbush Summit

on road ^{north of} ~~opposite~~

Mt. Wilson from

Macomber Flats.

LA Cr.
399. *Helianthus annuus*

in waste places

along road, outside

prairie. 2.3

mi. west of Thousand

Dales on Highway

101.

400,

~~398.~~ *Wyethia helenoides*
May 16, 1955.

Basily Peak Road
near juncture
with Ghost Rd.

On hillside covered
with *Hoena patens*;

with *Cornus maculata*
Baccharis pedunculata

Wyethia angustifolia,

Achillea borealis,
Helianthus.

~~397 *Wyethia helenoides*~~
~~May~~

*

July 27, 1954.

Tithonia tomentosa,
cultivated from
commercial oilseed
seed in UC Bot.
Gard, Berkeley.

401. *Veneqarja*
curpeoides
 Caviota Pass
 June 1, 1956
- 402 - *Hemizonia fasciculata*,
 Thousand Oaks.
 June 20, 1956
- 403 - *Medicago ~~glauca~~ sativa*
 June 27, 1956
 Harmony
- 404 - *Hemizonia congesta*
 1.1 mi S of Harmony
 (Same)
405. *H. congesta*
 June 27, 1956
406. *Medicago medicago*
 Castro Creek
407. *Hemizonia Menziesii*
 Sta Susana
408. *Helysacchaena mollis*
 Solon
409. *Medicago sativa*
 Castro

410, *Aemizonia* -
Nipomo Mesa
July 3

411, *Centropodia*
purpurea
4 mi. S. of city limits
of San Carlos.

July 5

July 7:
412 - ~~418~~ 7

412. *Holocarpha virgata*
Smith Creek

413. *Nadia*? same loc.

414. *Calycadenia* -
18 mi. W. of Starbuck
Co. line on road
up E side Mt. H.

415 - *Fagopyrum*
15 mi. W. of Starbuck
Co. line on
E side Mt. H.

416. *Holocampoa*
Hermannii
3 mi. W. of
Stanford co. W.

417. 1 mi. W. of
St. Co. line
— *Centromadia*
Fitchii.

418. July 8, 1957
11 mi. from house
on old Teda road
Glepanizonia

419. *Helianthus*
annuus
Claremont
July 24, 1957

~~420. *Podochloa*
ambigua~~

420. *Peumus Boldus*
Hellside Park,
~~July~~ August 22,
1957.

421. *Casimiroa edulis*
Harc et Lex. -
cut. Claremont,
private residence
corner of Foothill Blvd.
& ~~Claremont~~ Harvard Ave.
December 27, 1957.

423. *Escallonia*
franciscana
Dope Rand Park -
coll. Dec. 29, 1957.

March 30, 1958
424. Inverdale Co

2 mi. W. of
Palm Spgs, along
Calagan - Palm Spgs
highway
La Hylor or Peuce
probably not Peuce
prob. Chrysocent.

425. Franseria dumosa
with above

✓ Sphedra lanata
Lepidospartum

426 below summit of Morongo
Pass Co.

✓ Curtianesia
Lana Sphedra Proserpinaca
Cylindropuntia Berberis juncea
same Berberis Green

428 Morongo pass
Summit of Co.

✓ Hesperoxys
uncertain interior

Chrysothamnus teretifolius (D.H.)
Wall.
on N-facing slope
with *Purpurea*,
Crossosoma, *Quercus*
Riverside - San Bdo. Co. Cal.
429. Same
~~*Poa septentrionalis*~~

✓ 430. Same
Baccharis?
B. sergiloides Gray

431 1 mi. N. of
Prorongo Valley,
Napa County
Atriplex (Green) Blake
with *Sphedra*,
Chertopsis, in
Larrea association
SB Co.

432 *Chadymia*
Stenolepis
✓ in Larrea-hyem -
w. *brevipolia* var.
w. *Franseria*
Hymenoclea

~~Lucerne Valley~~
next Valley beyond
Morongo Valley
on Morongo
Greene. Lucerne Rd -
"Yucca Valley".

433. 1.6 miles W
of town of Lucerne
Valley on
highway to
Victorville
alluvial area
with ~~tan~~ + SBC.
H. ~~typical~~
~~dominant~~ -
~~Asplenium~~ ~~diversa~~ Gray

434. Same locality
Tetradymia succulent (?)
glabrate ~~typical~~ DC,
~~erect~~ ~~typical~~

435. Apple Valley, Between
Apple Valley Jct +
Deadman's Pt.
Tetradymia glabrate.

436. - *Chrysotomon*
nauseosus (Pall.) Britt.
var. *conspicua* (Greene) Hall.
In rocky hills
along highway to
Apple Valley ~~just~~
by from Victorville
just beyond Mojave
River.

437. ? - *Cedronal?*

same location
Stephanomeria
pauiflora (Torr.) Nelson

Beginning
438 → Guadalupe I.

April 21 - W. SD

Mon. April 22 - S. cañon
of twin cañons at
Jexson. NE anchorage.

Pentyl + poppy. Short distance up
Tues. cañon + back.

April 23 - up N. cañon
at NE anchorage -

Wed. to pinest back same
way.

April 24 - up Sparrman's
(Brandegees') canyon
this cañon is S. of
NE anchorage (NE
anchorage = Baradas)

Thurs. Antis + poppy
Pentyl + poppy
incl. Steph, Calcegia
Calum, Hazardia, etc.

April 25 - first half
of 2-day pack
trip. Start at NE
anchorage (Baradas),
proceed to lower
cans (Pentyl, Seneca
Palmer), thence to
Spring (overnight)

Fri.

Spring
April 26 -)

start at spring ascend
upper cirrus Mt. Angusta
& continue to end of

Sat

cypress grove. thence
S. ~~to following~~ Juniper
canyon to Hobster
Camp.

(collections Cupressus →
Calandrinia maritima)

April 27. steam S. to
islet, circled, anchor
at Melpomene Cove.

Proceed from weather
station to canyon E. of
weather station

Sunday

(Brodiaea, Lomatium,
Lupinus, Sphaeralcea,
Hemizonia etc.) thence
to cliff W. of weather
stat (above flat. on
cliff face just N. of
flat, Baccharis)

April 28.

Sailed from Melpomene to Isote

Negro, coll. 9-12AM: Talinum,

Atriplex, Dudleya, Calvezia

(Camp w. fruits), Oligoneis.

Mon. pres. material, tubs Talinum,
buds of Talinum.

at noon, sailed 5. to

Melpomene ashore 2-3

to collect Castilleja &

Plantago,

photographed Talinum, Mamm

Calvezia on I.N.; Castilleja

at Melpomene.

April 29.

Morning: cruise to

Lobster Camp from

Melpomene.

Tues.

afternoon, ashore

at Lobster Camp.

April 30 -

Wed.

begin return to SD

May 1 - Arr. SD

Thurs.

May 2.

April 22

- 438 - *Amblyopappus*
- 439 - *Pentstemon Emoryi*
- 440 - *Pentstemon*
(*Stenile*)
- 441 - *Escholtzia elegans*

April 23

442 - *Pinus radiata*

443 - *Ranunculus*
hebecarpus

444 - *Tufolepis Dalmanii*

445 - *Tillaea*

446 - *March*

April 24:

447 - Lupinus.

448 - ~~Galium angulosum~~
Emmenanthe

449 - Cryptantha maritima

450 - Pedocarya

451 - Antirrhinum

452 - Cryptantha

453 - Galium angulosum

454 - Galvezia speciosa

455 - Hazardia can

456 - Pelyogonum angulosum

457 - Stephanomeria angul.

April 25:

458 - *Citrus Neovium*

459 - ~~Cyrtandra~~
Pentylis incana
(Pl.)

460 - *Senecio Palmeri*

April 26:

461 - *Cupressus*.

462. - *Thysanocapsa*

463 - *Harpagonella*.

464 - *Citrus*

465 - *Phalaris*.

466 - *Baeria*

467 - *Calandrinia*
maritima

April 27:

468: *Baccharis*

d 469 - *Sphaeralcea Palmeri*

- 470 - *Hemizonia Palmeri*

i 471 - *Convolvulus*
occ. var. *macro-*
stegius.

o 472, *Brodiaea insularis*

473 - *Lomatium*

474 - *Lupinus*

475 - *Hemizonia*
Greenmanii.

April 28.

~~475~~ - Galoazium spec

476

Salto 477 - Oligoneis

Neg 478 - *Atriplex* ^{bard.} _{pas.} ^{palmeri}

479 - *Dudleya* ^{guad.}

480 - *Calceolium* ^{guad.}

main 481 - *Plantago* ^{insularis}

I, 482 - *Castilleja*

near
weather
stat.

April 29 - Lobster
Camp

483 - *Franseria*
carphorata

484 - *Protunia*

485 - *Solanum*

486 - *estipa*

1/2 mi. behind Lobster
Camp.

487 - *Minabotis*

(det. at Lobster Camp)

487-438 = 50 specimens

May 7, 1958

488. *Eriophyllum*
confertiflorum (DC)

489. May 31, 1958
Baccharis juncea

Prado Dam.

490. June 2, 1958

Senecio Douglasii
Road to Botanic
Garden.

491. June 2, 1958

Haplopappus pinnifolius
Gray.

NE corner of R S A B G,
just outside fence.

w. *S. opiana* E.
farinulata, *Plus*
Opuntia, *Erodietia*
Artemisia Dudleya.

492, June 4, 1958
Hope Ranch Park
near corner of ^{Via} Bendita
and Via Huerto, steute
Baccharis pilularis

493. same date + location
- *Silybum marianum*

June 5

494. *Rumex kerneri*
at Moffatt Residence,
near western junction
of Via Huerto and Via
Bendita, on Via Huerto,
Hope Ranch Park.

June 6

495. 2.2 mi. W. of
Summerland, Sta
Barbara Co., between
Highway 101 and the
S. P. R. R. right of
way.

Haplopappus
venetus var.
venosifolia

496. same.

Malacothrix
Saxatile

497. same

Intensia

498. Anaphalis

margaritacea

Road from South Hill to
Bot. Gard. June 11,
1958

499. June 16, 1958.

Senecio Petasitis
Varia. Garden

500-615

Hawaiiian Is.
July 8 - August 12

616-619

Claremont weed
August 30.

620

Senecio Douglasii ¹¹

1 mi. S. of Santa
Maria, on road

cut, with *Baccharis*
puberula?

Sept. 18, 1958

621.

Lepidospartum squaratum
below Bot. Gard

Sept. 20, 1958

622,

Nadia Bolanderi
cult. ~~from~~ at RSA BC
from seeds collected
by T. R. Pray at Tioga
Pass, Oct. 10, 1958

623.

Cunila chilensis
Lam., from
Kallmann's Nursery,
Sta. Barbara.

624. June 29,
Hanya -
Vancouver

July 3 -

625. Scabiosa
variifolia.

626. Sept. 26

Nymphoides
aquaticum
coll. Sta. Barbara

627. ? (Heterocid)

Edge Mt. pumpkin
garden.

Oct. 12

628 Oct. 12 -

same

(Pencephylla)

629, same -
Pectis papposa.

630, Pinosidero - San Bdo

Co. line -
Same loc^{ph}
as 428-9
Oreomyza?

631 Dec. 8 -
Montana at
Santa Barbara

632. ~~Montana~~ Jepson
Parryi at Mission
Dam.

633 - Helichrysum
petiolati H.R.P.
June 5

634

Comptonia
July 11
Boston Forest

635

Lepidospartum
laticussumata
Big Pine - Wrightwood

636.

Tetradymia -
same

637 -

Pines Monophylla
Wrightwood - Canyon

Oahu - Waianae Mts.

Aug. 26, 1961

638 - Kaneohe Trail

Viola chamissonis
ong!

639. *Psilotum*
complanatum

640. *Hesperomania*

641. *Pipturus* *Scottii*
L.

642. *Cyanea*

643. *Dubautia*
plantaginifolia

644. *Strongylodon*

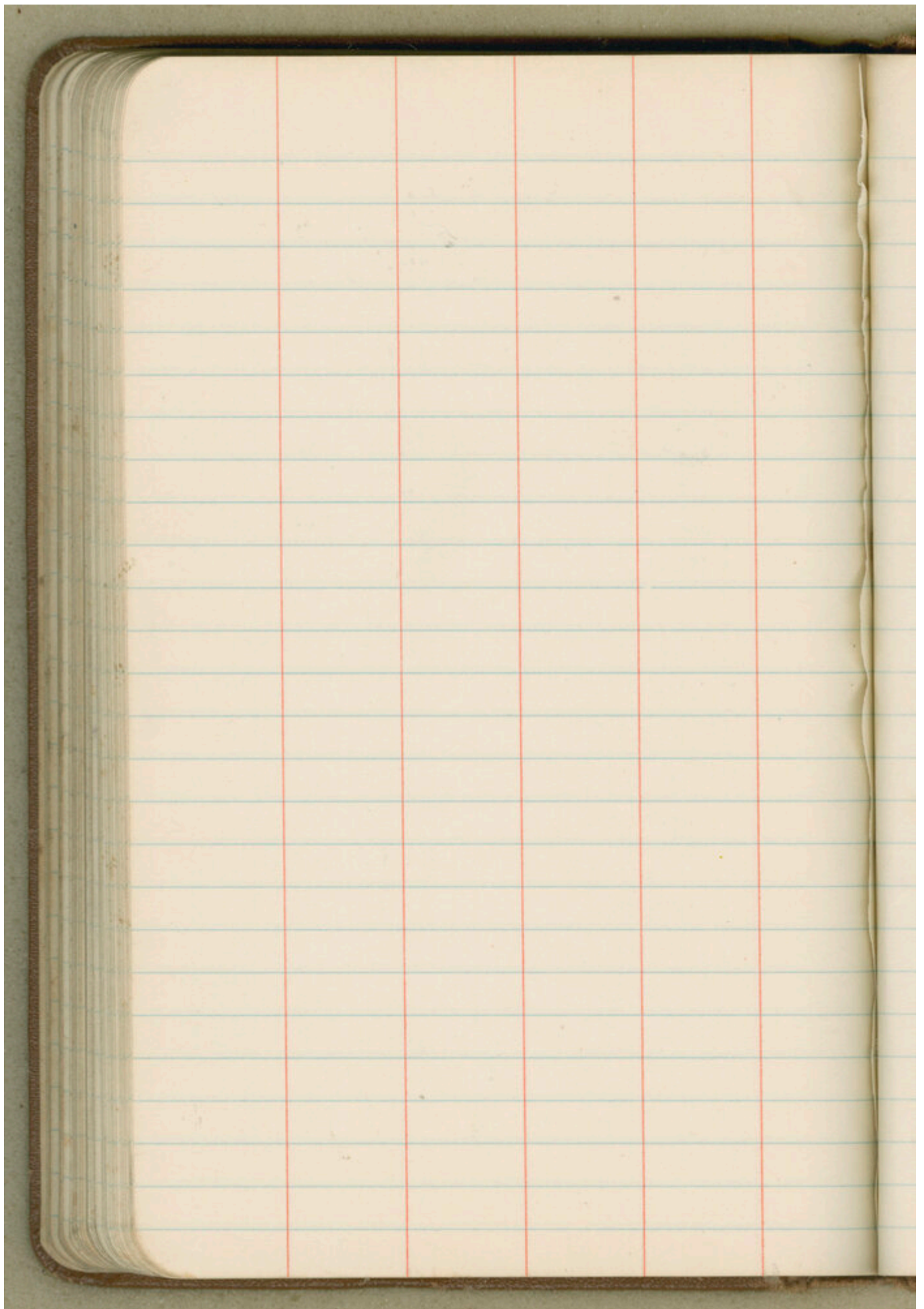
645 *Marattia*

Aug. 31

646. *Sidaea*
lanceolata

ten
to
two

ylla



Mammillaria bloosfeldiana

var. *shubiana*

Convolvulus occidentalis

var. *macrostegius*

Plantago insularis

Pectocarya linearis var.

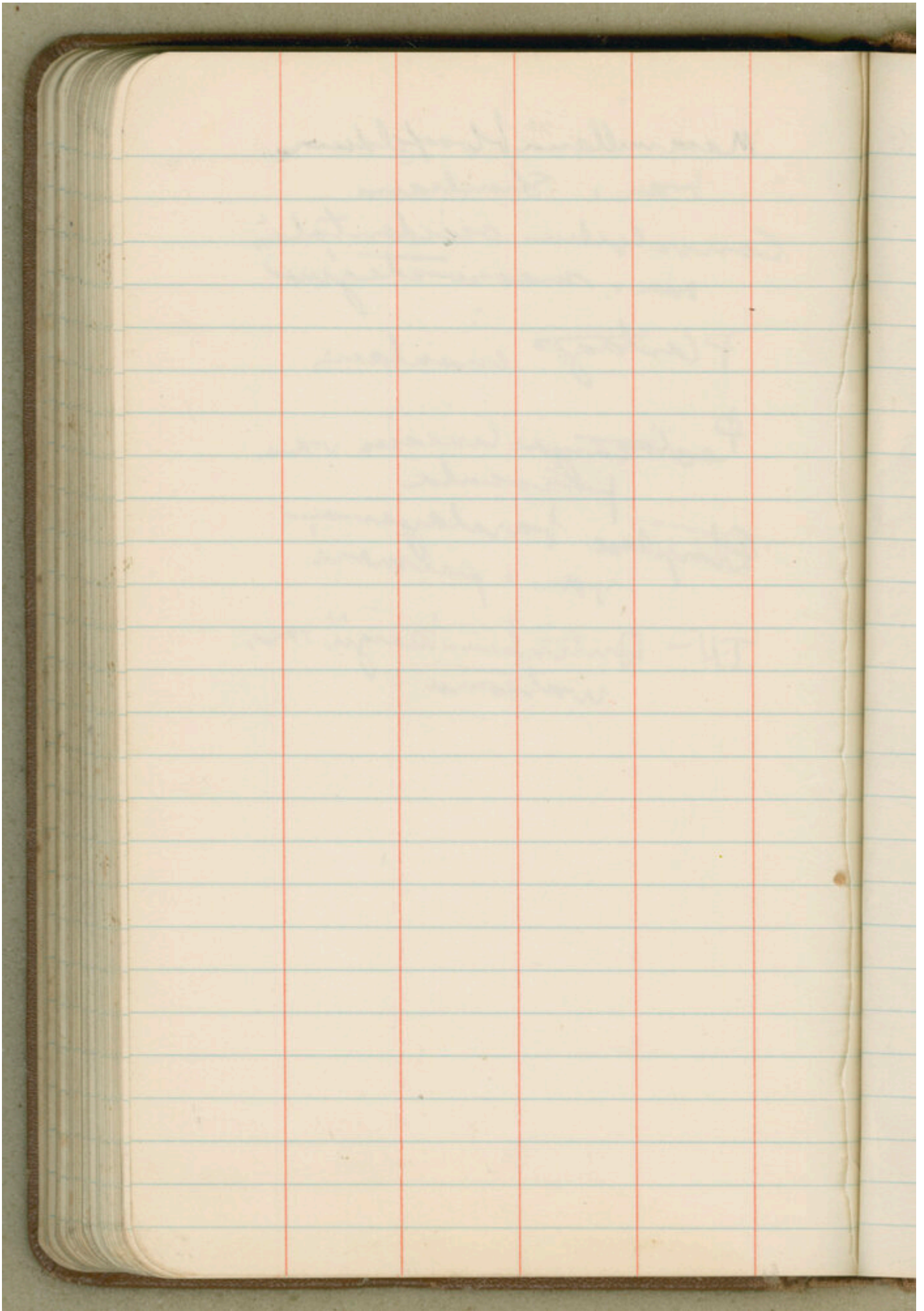
peruviana

Stylosanthes barclayana

var. *palmeri*

I.N. - *Antirrhinum kingii* var.

watsonii



field notes on *Phlox*
Phlox:

lower parts may
be rotted.

lower parts
uniformly brown
lower stems may
show bud
enlargement
adventitious roots.

Chromosome fixation;

P. incana at NW end

N. canyon. l,

+ Spayman Canyon

(with fix. of

Stephanos.)

+ lower crev. (so labeled,

P. emongi at NW end -

with to S. canyon

(with a few *Cryptanthus*) + insects

~~also small bottles~~

Haywardia

also: *Genea Palmeri*

(so labeled) lower crev.

Hamigonia Greeneana

H. Palmeri

Baeropsis

Talium

Springer June 13, 1956

Mastix elegans F. 520x

Calycodonta B. & E. 18577

Platylagus elegans Campbell 12991

L. pentadactylus albica Ball 18851

