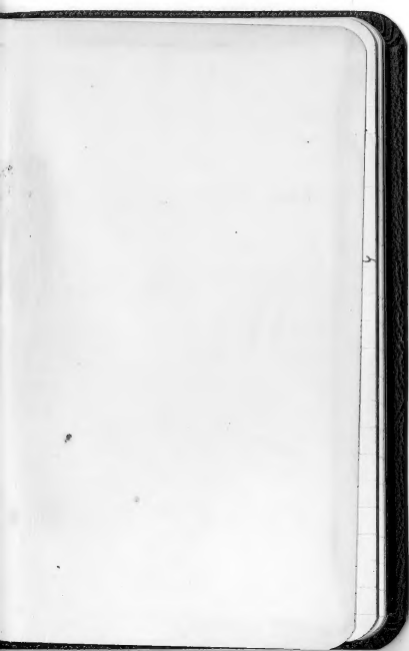


12827-13723

John Thomas Howell





Field Record.

Southern end of Scott Mt. Grade,
13.5 miles n. of Carville, Trinity Co.
Aug. 26, 1936.

12827. *Eriogonum elatum* Dougl.

12828. *Polygonum spergulariiforme*

12829. *Polygonum Douglasii*

12830. *Chrysothamnus nauseosus*
var. *speciosus*.

12831. *Stephanomeria virgata*

Canyon + flats of Trinity River near
Eagle Creek (about a mile on either
side), Trinity Co.

12832. *Buckellia greenii*.

Aug. 26, 1936.

Near preceding along Trinity River
Near Eagle Creek, Trinity Co.

12833. *Galium Bolanderi*.

12834. *Solidago californica*

12835. *Castilleja pinetorum* var.

12836. *Lupinus Torreyi*.

12837. *Eriogonum vinnosum*
var. *adungens* St.

12838. *Eriogonum innovatum*

12839. *Glossopetalum*?

Rocky slope along road less than 1
mile above (mg) Eagle Creek.

12840. *Comandra pallida*
Simulates the preceding.

Aug. 27, 1936.

Wardingtonia bog at Trinity Center
Picnic Ground east of Trinity Center,
Trinity Co.

12841. *Carex Lemmonii*

12842. *Alnus rhombifolia*

12843. *Muhlenbergia filiformis*

12844. *Cornus californica*

12845. *Rhynchospora glomerata*
= *R. capitellata*

12846. *Sericocarpus rigidus*

12847. *Halecium*

Stems mostly not winged at all.

12847A *Eleocharis obtusa*?

Aug. 27, 1936.

Meadows near Scott Ranch, 3 miles
s. of Trinity Center, Trinity Co.

12848. *Carex ornitha*

12849. *Carex teneraeformis*

12850. *Carex teneraeformis*

12851. *Carex abrupta*.

12852. *Cicuta Douglasii*

12853. *Careum Howellii*

12854. *Solanum elaeagnifolium*

12855. *Eragrostis cilianensis*

12856. *Scirpus validus*

Aug. 27, 1936

12857. *Leersia oryzoides*

12858. *Lesingia nuroclada*
var. *nuroclada*

12859. *Eleocharis bella*

12860. *Eleocharis acicularis*

Gravel bar of Trinity River on Scott
Ranch, 3 miles s. of Trinity Center
Trinity Co.

12861. *Chaenactis suffruticosa*

12862. *Lupinus Torreyi*.

Aug. 28, 1936.

7 miles from Minersville on
road to Weaver'sville, Trinity Co.

12863. *Cirsium cordifolium*

12864. *Arctostaphylos Menziesii*

12865. *Phacelia heterophylla* S. & P.
virgata

12866. *Garrya Frenovii*

12867. *Cercocarpus betuloides*

12 miles from Douglas City on
road to Peanut, Trinity Co.

12868. *Trichostema laxum*

12869. *Quercus Kelloggii*

Aug. 28, 1936.

12870. *Malacothrix obtusa*

12871. *Eriogonum umineum*
var. *oblongum*

12872. *Chenopodium lanceolatum*

Forest Glen, Trinity Co.

12873. *Juncus biformis*

12874. *Eleocharis bella*

12875. *Juncus sphaerocarpus*
 $1\frac{1}{2}$ miles west of Forest Glen

Trinity Co.

12876. *Polytaenium Dryopteris*
oregana

12877. *Frantvertteria grandis*.

12878. *Carex Boissieri* ()

Aug. 28, 1936.

4½ miles from Minamoro's on
road to Bridgeville, Humboldt Co.

12879. *Carum Kelloggii*

12880. *Juncus effusus*

12881. *Juncus patens*

12882. *Juncus Kiphioides*

8½ miles from Minamoro's on
road to Bridgeville, Humboldt Co.

12883. *Navaretia intertexta*

12884. *Navaretia squarrosa*
Herbage slightly nephritic

Aug. 29, 1936.

West side of Eel River, 16 miles n.
of Garberville, Humboldt Co.

12885. *Grapholium apothulatum*

12886. *Grapholium chilense*

12887. *Ewonymus occidentalis*

12888. *Grapholium japonicum*
Not hybridizing with the other
species of *Grapholium* with which
it was growing.

Bluffs of Eel River, 11 miles n. of
Garberville on edge of redwoods,
Humboldt Co.

12889. *Chrysopsis oregana*
Not nodding in bud.

12890. *Gnaphalium* ^{luteo-album} ~~album~~ L.

Common weed, Sutter Forest,
San Francisco. Sept. 4, 1931.

Apr. 11, 1937.

12891. *Scutellaria tuberosa*
on burnt area in copeland
on Trinity Mt., east of Glen
Allen, Sonoma Co.
12892. *Minimus modestus* Nutt
with preceding.
12893. *Leptostaphylos* _____
leaves thin and somewhat
undulate. Stamp - sprouts.
Rare preceding.
12894. *Leptostaphylos* _____
Pinon Ridge, ne. of Santa Rosa
Sonoma Co. Type locality. The
ridge is being eroded into
it + small terraces as the
eroding flow will perhaps
not survive long.

Apr. 11, 1937.

12895. *Arctostaphylos uva-ursi*
leaves not as acute. With
the preceding.

12896. *Arctostaphylos uva-ursi*
Stems sterile from an
injured plant. With the
preceding.

12897. *Geophytum divergens*
Stems prostrate and rooting
or now and again some stems
ascending - but not forming
more than a low loose mound,
not a bush. With the pre-
ceding.

Apr. 11, 1937.

The following specimens of *Ceanothus* came from the same locality where Nos. 12612 - 12620 were collected in young fruit two years ago. These perplexing plants are growing on land that was once planted to vines but which has been allowed to revert to a wild condition. In a note following No. 12620 I have stated that the complexities have probably arisen through hybridization, a fact that is believed by Mr. Baker & strongly suspected by me. Still it is sufficient to trace two possible entities that have entered into the cross. Some characters shown are suggestive of *C. prostratus*, others of *C. rigidus* *var. glaucus* & yet others

To *C. connectus*. It may be that a proper understanding of *C. divergens* would lead to a solution of the problem. *C. divergens* is undoubtedly related to *C. protractus* but whether it is itself a "pure" entity or a hybrid, I do not know.

Certainly a variety of things are referable to it. If *C. divergens* is as complex genetically (i. e., with a hybrid constitution) as I suspect it may be, then it would seem likely that a crossing of *C. divergens* & *C. rigidus* *gamblicus* (or near relatives) could account for the variable population that is proving so fascinating. Mr. Baker states that *C. rigidus*

grandifolia grows in Hope Valley
on the east side of the
Sierra - Santa Rosa Range,
just across ^{upper} Sonoma Valley from
where the "bigbites" grow. And
C. divergens grows in the upper
Napa Valley where it is typical
& maybe reaches the Hot Park
Range and Sonoma Valley just
across the range from Napa Valley.
I have not seen *C. cuneatus*
in the Hot Park Range yet Harry
Jeff, a neighbor of Mr. Baker,
tells me it grows in the vicinity
of his home.

Apr. 11, 1937.

Santa Rosa Rifle Range (your club)
6 miles from Santa Rosa on
road to Sonoma, Sonoma Co.

The first 3 numbers were collected
to show variation in color:

12898. *Ceanothus*

Flowers nearly white, the
pedicels a pale glaucous or
grayish - blue to purple. Very
rigid shrub like *C. cuneifolius*.

12899. *Ceanothus*

with rigid shrub with pale
branches but the flowers
pale blue fading almost white.

12900. *Ceanothus*

Flowers a peculiar rose-purple
fading light purplish.

12901. *Ceanothus*

Inflorescence reminiscent of *C. vigiers grandifolius*. Flowers a deep "Ceanothus blue."

12902. *Ceanothus*

Flowers much more scattered than in preceding. Leaves a little broader.

12903. *Ceanothus*

With the *C. vigiers grandifolius* inflorescence but the flower-
clusters smaller, more scattered
& the fls. paler than in No.

12901. The most common type.

12904. *Ceanothus*

Flowers purplish. Style & branches very prominent.

Apr. 11, 1937.

12905. *leucotricha*

With the preceding, it bit
more lax & flowers in more
diffuse clusters. In small
seeds & loose fls. as this form
resembles the type found on
Trinity Mt. where it grows
a vigorous and ~~many~~ ^{many} ~~unusually~~
tall. This form rare here.

12906. *leucotricha* *Margarita* Parry
Seedlings from Miles Barber's
place, sw. side of Mt. Hood,
Snohomish Co.

12907. *leucotricha*

From sw. slope of Mt. Hood
on Miles S. Barber place,
Snohomish Co.

Apr. 11, 1937.

12908. *Ceanothus*
Near preceding

12909. *Ceanothus*

The beautiful small-seeded form
from Trinity Mt. wood cultivated
in Miss Baker's garden near
Kauai, Hawaii Is.

12910. *Laminium purpureum* L.
garden weed, Miss Baker's.

May 16, 1937.

12911. *Iris californica*

Flowers yellow. Wooden
Valley, Napa Co.

12912. *Iris californica*

Flower white. Only 1 white-
flowered plant seen growing
with the preceding.

12913. *Iris californica*

Flower true blue with yellow &
white markings. Summit of Wooden
Valley Grade, Napa Co.

12914. *Iris californica*

Flower smoky purplish blue. With
preceding.

12915. *Iris californica*

Only white-flowered plant seen
growing with preceding.

May 19, 1937.

Clay bank, 6.5 miles south of
Paisano, San Benito Co.

12916. *Gilia multicaulis*

12917. *Cryptantha nevadensis* var.
rigida

12918. *Phacelia* ~~sp. nov.~~

Corolla not open-companulate
but more tubular. The lobes
of the corolla not approximate
in anthesis however.

The Pinnacle on dry hillside
of main canyon on east side
near the ledge, San Benito Co.

12919. *Streptanthus*

12920. *Cryptantha membranacea*

12921. *Plagiobothrys nothofolius*

May 19, 1937.

With the preceding:

12922. *Cryptantha Clevelandii*

12923. *Cryptantha decipiens* var.
corollata

12924. *Cryptantha mucronata*

12925. *Rigiopappus leptoclados*

12926. *Senecio micranthum*

12927. *Gilia pedunculata*

12928. *Allium fimbriatum*

Among the rocks of the Pinnacles
in more or less shaded places
at the head of the main canyon
near the caves.

May 19, 1937.

12929. *Phacelia brachyloba*.
Lime white, tube yellow.

12930. *Madia exigua*.

12931. *Carex globosa*

12932. *Umsinkia Munzianii*

12933. *Malacothrix Clevelandii*

12934. *Luzia hieracioides*

12935. *Convolvulus lutescens*

12936. *Godetia epibioides*
Petals nearly white fading pinkish.
Flowers regular.

12937. *Phacelia leucocarpa*

May 19, 1937.

Hot open slopes and among brush
between the "Big Pinnacles"
and "Little Pinnacles," San
Benito Co.

12938. *Campanula*

Corolla very pale lavender

12939. *Sedella pentandra*

12940. *Eriogonum Notoni* Greene

12941. *Limonium*

12942. *Lesingia germanorum* var.
parvula

12943. *Eriogonum saxatile*

12944. *Allium lasiocarpum* var.
micranthum

12945. *Thamnetia Eastwoodae* Brand.
= *T. mellita*!

12946. *Mimulus Rattanii*
12947. *Erigeron liliiflorum*.
12948. *Scutellaria tuberosa*
In shade of shrubs.
12949. *Plagiobothrys tenellus*
12950. *Plagiobothrys*
- 12950A. *Plagiobothrys californicus*
12951. *Cryptantha microtachys*

Frog Canyon + slope of Mt. Hebron,
The Pinnacles, San Benito Co.

12952. *Erigeronthe penduliflora*.
The var. growing with the species
and looking very distinct!

May 19, 1937.

With the preceding on rocky
talus. May 19, 1937.

12953. *Placelia brownii*.

Corolla compound.

ss. *subvirescens*

12954. *Clarkia Breweri*.

Petals pink. Fls. very fragrant.

12955. *Arabis Breweri*

In clefts of rocks in canyon
bottom.

12956. *Ullium ~~subvirescens~~*.

Flowers white. In moist
place in canyon bottom.

May 20, 1937.

5 miles north of the Pinnacles,
San Benito Co.

12957. *Asclepias vestita*

12958. *Lesqueria parviflora*.
Making a partially shaded,
mo. slope yellow.

Midway between Paicines and the
Pinnacles, 12 miles s. of Paicines,
San Benito Co.

12959. *Evox sparsiflora*

12960. *Mucronaria Douglasii*

12961. *Desotes Nuttallii* Howell

12962. *Tharvestia nigellaformis*
var. radians, n. var.

May 20, 1937.

Gentle grassy slope, 3 miles
east of Poicines, San Benito Co.

12963. *Pentstemon alsinoides*

Partially shaded northern slope,
6 miles east of Poicines,
San Benito Co.

12964. *Godetia modesta* (Gray):
Petals strap-shaped, unequal
in length and irregularly dis-
posed: the two upper shorter
and suberect only slightly, diverging,
the two lower longer and
spreading horizontally; all rounded
with minute reddish specks at
base.

12965. *Heperocnem strictum*

12966. *Polkaea Hartwegii*

May 20, 1937.

12967. *Senecio Breweri*

Near the preceding but in open
sunny grassy field:

12968. *Godetia quadrivulnera*
Petals dark purple-red.

12969. *Godetia quadrivulnera*
Petals lavender-pink

12970. *Godetia quadrivulnera*.
Color of petals intermediate between
two preceding, rose-color.

12971. *Convolvulus californicus*

May 20, 1937.

Steep clay slope and roadside
talus, 8 miles east of
Paicines in Tres Pinos Creek
Canyon, San Benito Co.

12972. *Eriogonum angulosum* H. & G.

12973. *Eriogonum angulosum*

12974. *Eriogonum tenuissimum*
Eastwood

12975. *Streptanthus flavescens*.

12976. *Siropis arvensis*.

Roadside hollow, 8 miles east
of Paicines in Tres Pinos Creek Canyon.

12977. *Pterocarpus tenellus*

May 20, 1937.

Shaded northern slope, 10
miles east of Paisano in Tres
Pinos Creek Canyon, San Benito
Co.

12978. *Bumelia arenaria*.

12979. *Lyptanthus nemoralis*

12980. *Boeria microglossa*

12981. *Stachys californica*

12982. *Conoclinium microcarpum*.

12983. *Castilleja elongata*
Floral bracts bright red.

12984. *Munak* - *Echinocystis scabrida*
+ with 1-5-seeded

May 20, 1937.

The following collections of
Eriophyllum grew on several bushes
with the preceding:

12985. *Eriophyllum japonicum*
Inflorescence much broken
up with some heads solitary,
on long peduncles.
12986. *Eriophyllum japonicum*
Heads in small corymbes.
corymbes on elongated branches.
12987. *Eriophyllum japonicum*
Like no. 12985 but heads
larger.
12988. *Eriophyllum japonicum*
Heads smaller than on other
plants.

May 20, 1937.

Serpentine outcrop on Coyote Creek
3 miles east of Madrone on road
to Madrone Hot Springs, Santa
Clara Co.

12489. *Colochortus albus*

12490. *Melocotylis obtusa*

12491. *Mimalepis*

12492. *Ceanothus Farnesia* McMinn
Isotype.

12493. *Streptanthus albidus* form.

Calyx pale rosy-lavender, very narrow
and whitish margined about tips, ^{segments} shallow
ly keeled. Petals with oblong pale green
naw, the blades rosy-lavender with
white much-crippled margins, the
blades of the upper pair longer.

than the blades of the lower pair. Stamens in 3 pairs: the two upper united nearly to the abortive but polleniferous anthers; the 4 lower stamens in 2 sets, the two lateral about $\frac{1}{4}$ shorter than the two central. Stigmas divaricate and scarcely lobed.

The whole flower entirely glabrous. The plant bronzy-green and very glaucous, perfectly glabrous. The callous-tipped teeth on the sides of leaves & ends of lobes conspicuous.

N.B. Herb kept in water a week shows calyx almost chalky white faintly tinged with lavender.

May 23, 1937.

Clay slopes overlying serpentine,
Presidio above ^(west of) ~~the~~ ^{the} ~~Cisco~~ ^{Cisco} Field,
San Francisco.

12994. *Carex subbracteata* Muhl.

12995. *Carex brevicaulis* Muhl.

12996. *Stipa pulchra*.

12997. *Microseris Bigelovii*

12998. *Leanthia californica*

12999. *Leanthia californica* var.
americana.

13000. *Scorzonella paludosa*

13001. *Crocolobus subcaulis*.

13002. *Cisium quercetorum*

May 23, 1937.

With the preceding

13003. *Festuca dentonensis*
(All.) Beckers. + Gaebn.

13004. *Baeria hirsutula*

South of the Golden Gate,
Presidio, San Francisco.

13005. *Carex globosa* Booth.

Wet or moist soil at north end
of Mountain Lake, Presidio.

13006. *Carex Ha-fordii* Mkege.

13007. *Syntherisma californicum*

Clay soil over serpentine above the
Officers Club (Old Presidio), Presidio

13008. *Mucoseris Bigelovii*

13009. *Lomatium dasycarpum*

13010. *Funaria canifolia*
Foliage varying from subglabrous
to almost hoary. May 23, 1937.

13011. *Carex tumulicola* Tuckerm.
May 23, 1937.

Marsh immediately east of
Sebastopol, Sonoma Co. Known
locally as the Lagoon. Collected
with J. W. Stacey. Jan. 1937.

13012. *Hammium californicum*

13013. *Scorzonella procera*

13014. *Allocarya undulata*

13015. *Lesqueris Howellii*

June 6, 1937.

The Lagoon, Sebastopol, Sonoma
Co. Collected with J. W. Stacey.

13016. *Allocaenya californica*

13017. *Hummingia concolor*.

13018. *Carex athrostachya*

13019. *Carex hudsonii*

13020. *Carex hudsonii*

13021. *Carex stipata*,

13022. *Carex Barbarae*

13023. *Carex Barbarae*

13024. *Carex feta* - discarded.

June 6, 1937.

13025. *Carex praegracilis*

13026. *Carex exsiccata*

Carex gracilior, + *C. obnupta* also
grew in the Laguna area but were
not collected.

Pittkin Marsh, 5 miles n. of
Sebastopol, Sonoma Co. Collected
with Mr. J. W. Stacey.

13027. *Scirpus carinatus*

13027A. *Scirpus cernuus*.

13028. *Isaetes Nuttallii*

13028. *Isaetes Nuttallii*

Juncus filiformis

June 6, 1937.

13031. *Castilleja vilginosa* n. sp.
Inflorescence yellow.

13032. *Panicum pacificum*.

13033. *Luzula ~~auriculata~~*.

13034. *Galium trifidum*

13035. *Helenium Bigelovii*

13036. *Carex californica*

13037. *Brodiaea peduncularis*

13038. *Carex feta*

13039. *Carex stipata*

13040. *Carex ^{breviligulata} sub-bastata*

June 5, 1931.

13041. *Carex lanuginosa*

13042. *Carex* [Lemmonii]

sonomensis n. sp. !!!

The two following on dry ground above
the Pitkin Marsh:

13043. *Carex brevicaulis*

13044. *Navarretia gracilior*.

Carex gracilior + *C. abrupta* also are
in the Pitkin Marsh but were not
collected.

2 miles n. of Sebastopol, Sonoma Co.

13045. *Phacelia* sp. *gambelii*

Stems very tall and stout. Corolla
pale lavender.

Grassy slope, 7 miles n. of
Petaluma on Stony Point road,
Sonoma Co. June 6, 1937.

13046. *Scorzonella pilivosa*

13047. *Cirsium quercetorum*.

Low but definitely caulescent.

Near head of Stokes Bay on road
to Pt. Reyes, Marin Co. June 13, 1937.

13048. *Carex subbracteata*

13049. *Festuca dentonensis*

Bolinas mesa near radio station,
Maric Co. June 22 1955.

13050. *Agoseris spongiorides*

13051. *Scorpiella paludosa*

13052. *Linnanthus androsaceus*
Limb white, throat and tube
yellow.

13053. *Carex gracilior*

13054. *Carex densa*

July 4, 1937.

Vallajo, on made land along
bay, Solano Co.

13055. *Phalaris*

Summit of Wooden Valley Grade
east of Napa, Napa Co.

13056. *Navaretia heterodoxa*

Herbage somewhat mephitic. Cells
pale orange.

13057. *Hemitelia californica*

13058. *Aquilegia truncata*

Upper stems and joints glandular

13059. *Podocarpus stricta*

13060. *Taraxacum officinale*

13061. *Praxelis*

peruviana

July 4, 1937.

13062. *Ceanothus purpureus* Jepson.

13063. *Cercocarpus betuloides*

2 miles east of Petrified Forest,
Sonoma Co.

13064. *Navaritia heterodoxa*

Mephitic odor. Flowers waxy, waxy white.

13065. *Medea dissitiflora*

13066. *Medea dissitiflora*

Harbony with resinous odor, not
disagreeable or pungent.

13067. *Godetia quadrivulnera*

13068. *Ceanothus cuneatus*.

Young branches curving downward as
a bush in production.

July 4, 1937.

13069. *Phacelia* ~~californica~~

Corolla tubular - compound, the
lobes erect or spreading
slightly, very pale lavender. When
withering the corolla becoming com-
pressed because of the congested
flowers, the lobes not connivent
approximate.

13070. *Cirsium* ~~altissimum~~

Flowers solid yellowish white,
fodis brownish.

Near the Petrified Forest, Arizona

13071. *Linum* *spergulinum*

13072. *Scutellaria* *californica*

13073. *Cory* *Hudleyi*

13074. *Crocopus latuloides*.

13075. *Navaretia mellita*

Herbage glandular, odor pungent but not unpleasant. Flowers almost white, faint suggestion of lavender.

13076. *Navaretia intertexta*

No glands. Corolla pale lavender.

13077. *Streptanthus*

Sepals greenish-yellow, becoming more yellow in age, rather fleshy with hyaline margin, sepals nearly equal, rather sharply and prominently keeled, the two lateral slightly raised toward the upper one, so that the tips of the three are approximate, the lower one horizontal or nearly so; petals arranged in two sets.

July 4, 1937.

The blade of the upper ones erect and scarcely divergent, the blades of the lower ones a little smaller, deflexed and somewhat divergent, limb white-criesped with yellow veins, the claw yellow; the two upper stamens exserted nearly to the anthers which are without pollen; the lateral pair with shorter filaments and larger longer anthers than the lower pair, the lateral pair 6 mm. long, the lower pair 8 mm. long; fruit glabrous, stigma discoid.

13078 *Yucca* *Can.* 1937.

July 4, 1937.

Riviera Ridge, ne. of Santa Rosa,
Sonoma Co.

13079. *Arctostaphylos amomensis*

13080. *Ceanothus divergens*.

Plants for most part mat-like,
the flowering branchlets suberect.

4 miles west of Santa Rosa on road
to Sebastopol, Sonoma Co.

13081. *Scorzonella procera*.

5 miles n. of Sebastopol on road to
Forestville, Sonoma Co.

13082. *Navarretia viscidula*

Corolla-limb light purple, throat
white, tube pale greenish yellow.

July 4, 1937.

13083. *Potentilla tenuiloba*.

Herbage somewhat scented.

13084. *Godetia* - *Clarkii* *subincata*

Petals rosy with rose-purple markings.

Tiburon, Marin Co. On
serpentine hills.

13085. *Zygadenus fontanus*

13086. *Halenium Bigelovii*

13087. *Carex serratodens*

13088. *Eriogonum cinereum caninum*

Plants with low, sprawling habit,
sepals rose with deep midvein.

13089. *Junium congestum*

13077. *Brodiaea pedunculata*
Perianth pale lavender.

13091. *Stachys pycnantha*

Coyote Creek, 3 miles e. of Madrone,
Santa Clara Co. July 5, 1937.

13092. *Streptanthus albidus* form.

13093. *Ceanothus Ferrisii*

July 5, 1937.
Metcalf Road in hills east of
Coyote, on Serpentine, Santa Clara Co.

13094. *Cirsium*

13095. *Phacelia* ~~illinoensis~~

13096. *Eriogonum virgatum* var.

July 5, 1937.

13097. *Streptanthus albidus* Greene.

Sepals chalky white, slightly tinged with lavender or color almost entirely lacking, all strongly keeled, the 2 lateral slightly raised so that the tips of the 3 upper are approximately behind the two upper petals, the texture almost fleshy with margins thin; the blade of petals white-crested with light purplish veins, the upper pair broader, erect, approximately parallel, the lower somewhat divergent, claws whitish or shaded with lavender; the upper pair of stamens united nearly to the anther but polleniferous anthers, the lateral pair with shorter filaments and longer longer anthers than the lower pair; pistil of globose, stigma a shallowly bilobed disk.

13098. *Melrostrum*

On Metcalf Road east of Coyote
Santa Clara Co. Not on serpentine.

July 5, 1937.

13099. *Phalaris*

Near Redwood City, along Bayshore
Highway, San Mateo Co.

July 5, 1937.

July 18, 1937.

Mt. St. Helena Creek at Napa-
Lake County line, Napa Co.

13100. *Ceanothus japonii*

13101. *Streptanthus*

Mt. St. Helena Creek at Minabel
Mine, Lake Co.

13102. *Thermadella subserata*

13103. *Chrysanthe Clevelandii*

13104. *Navaretia mollis*

13105. *Eriogonum vinineum*

Showing various colors found
together which have probably become
varied due to hybridization.

July 18, 1937

Dried bottom of roadside drain,
1 mile n. of Middletown, Lake Co.

13106. *Navaretia pubescens*

Flowers bluish with white throat
and purple dot at base of each
lobe.

13107. *Navaretia cotulaefolia*

Flowers white with yellow throat.

13108. *Pogogyne Douglasii*

13109. *Eryngium oblongolatum*

13110. *Eryngium oblongolatum*

Same as preceding undoubtedly but
having different gross aspects. Foliage
in No. 13109 yellow-green, in this
blue- or grey-green.

July 18, 1937.

Pulaski Creek bridge, 5 miles n.
of Middletown, Lake Co.

13111. *Asclepias Kotoko*.

2 miles n. of Lower Lake,
Lake Co.

13112. *Malvastrum Hillebr.*

13113. *Navaretia stracheyoides*

7 miles north of Lower Lake,
Lake Co.

13114. *Chrysopsis*

Odor pungent, like vinegar.

13115. *Eriogonum dasycanthum*

13116. *Cucurbita californica*.

13117. *Eriogonum Wrightii* var.
membranaceum

July 18, 1937.

10 miles n. of Lower Lake at
intersection of Williams - Upper Lake
and Lower Lake - Upper Lake highways,
Lake Co.

13118. *Lupinus Menziesii*
Corolla yellow (golden) at first,
becoming tawny-atta red.

13119. *Lyngium Vasceyi*.

12 miles n. of Lower Lake, Lake Co.

13120. *Phacelia ramosissima*
Limb dirty lavender, throat marked
with purple, stamens orchid.

South side of Elk Mt., Lake Co.

13121. *Boerhaavia densiflora*

13122. *Thurbergia intertexta*

July 18, 1937.

13123. *Navaretia intertexta*
Probably a younger phase of
preceding.

13124. *Navaretia pubescens*

13125. *Navaretia squarrosa* .
Herbage mesphitic

13126. *Navaretia togelina* .
Least common form here .

13127. *Navaretia mellita*

This remarkable congregation of
Navaretia grew nearly together on
a slope, dry above, below along
a springy place, wet.

July 19, 1937.

South side of Elk Mt. on Heen
Valley Forest Service ^{once} ~~road~~ road, Lake Co.

13128. *Eriogonum venustum*
var. *californicum*
13129. *Manadella tomentosa*
13130. *Galium Bolanderi* var.
13131. *Phacelia subicata*
ssp. *subicata* — —
13132. *Grindelia camporum* var.
Haydeni.
13133. *Cirsium - americanum*
Flowers vivid yellowish-white
13134. *Stephanomeria virgata*
13135. *Hemizonia congesta* ssp.
luzulaefolia.
13136. *Linum adenophyllum* Gray.

July 19, 1937.

Between Clear Lake and Colusa
Co. line, e. Lake Co., on road to
Williams.

13137. *Eriogonum dasycanthum*

13138. *Penstemon Lemmonii*

13139. *Mentzelia micrantha*

13140. *Monardella subserrata*

13141. *Phacelia micrantha*

ssp. imbricata.

13142. *Erygium*

13143. *Cirsium macrodonum*.

Flowers whitish.

5 miles s. of Redding, Shasta Co.

July 19, 1937.

13144. *Phacelia* *irritans* Eastw.

2 miles s. of Redding, Shasta Co.

July 19, 1937.

13145. *Epilobium* *californicum*

13146. *Paspalum* *dilatatum*

On Clear Creek near French Gulch,
Shasta Co. July 20, 1937.

13147. *Juncus* *...*

San Ness Creek, Trinity Co.

July 20, 1937.

13148. *Lilium* *nevadense* Eastw.

Tip of perianth-segments red,
passing to yellow at base, brownish
speckled.

July 20, 1937.

6 miles s. of Trinity Center on
road to French Gulch, Trinity Co.

July 20, 1937.

13149. *Amorpha californica*

4 miles s. of Trinity Center on road
to French Gulch, Trinity Co.

July 20, 1937.

13150. *Minuartia Layneae*

Corolla nearly regular, l. ab-
pink with purple-red markings
in throat on the upper lip and
mottled on lower lip.

Coffee Creek Canyon at mouth of
Union Creek, Trinity Co.

July 20, 1937.

13151. *Lilium Washingtonianum*
Sagments white fading to yellow.

July 21, 1937.

Coffee Creek rises in Big Flats and in the mountains on either side of the flats. A low, almost imperceptible divide separates the Coffee Creek drainage and the Salmon River, South Fork. The Salmon River flows north to near Big Flat and there turns west into its wild rocky canyon. The divide between Coffee Creek and the Salmon River is also the boundary between Trinity and Siskiyou Cos. Big Flat is entirely in Trinity Co. and the Salmon River drainage is in Siskiyou Co. The elevation of Big Flat

July 21, 1937.

South Fork Salmon River near
Big Flat, Siskiyou Co.

13152. *Orthocarpus Copelandii*.

13153. *Arabis retrofracta*

13154. *Eriogonum elatum*.

13155. *Melica fugosa*

13156. *Erinus marginatus*

13157. *Potentilla glandulosa*

13158. *Silene Hystrix*

13159. *Polygonum spergulariaeforme*

13160. *Ceanothus velutinus*

July 21, 1937.

13161. *Stellaria Jamesiana*
13162. *Potentilla reflexa*.
13163. *Danthonia Bolanderi*.
13164. *Prunus demissa*.
13165. *Polypogon Douglasii*
13166. *Stipa occidentalis*
13167. *Elymus glaucus*
13168. *Horkelia fusca*.
13169. *Eriogonum umbellatum* var.
13170. *Hemizonia minima*.

July 21, 1937.

South Fork of Salmon River near
Big Flat, Siskiyou Co.

13171. *Viola purpurea*

13172. *Gnaphalium laevigatum*.

Fertile stems sometimes 4,
sometimes 8. Plants otherwise like 13171.

13173. *Anemone deltoidea*

13174. *Mimulus leptaleus*

Corolla nearly regular, rose-color,
the palate with 2 yellow ridges,
upper side of throat sharply
triangular-carinate. Herbage somewhat
slimy.

13175. *Kelloggia*

13175 *Kelloggia galioides*.

13176. *Lappula flabunda*

July 21, 1937.

13177. *Antennaria dioica*.

13178. *Hiernia cynoglossoides*

13179. *Phacelia nuttalliana*

Caules tri-lobis-complanatis, the lobes of corolla slightly, whitish turning light brownish. Hairs on upper part of stem partly glandular. Inflorescence generally sub-paniculate, 1 plant seen & collected with spreading branches.

13180. *Lappula floribunda*
Not like No 13176.

13181. *Colemania Torreyi* var.
latifolia

13182. *Cryptantha Torreyana*.

13183. *Cryptantha simulans*

July 21, 1937.

South Fork of Salmon River, near
Big Flat, Siskiyou Co.

13184. *Silene Menziesii*

13185. *Cryptantha affinis*

13186. *Adenocaulon bicolor*.

13187. *Apocynum punilum*.

13188. *Symphoricarpos albus*.

13189. *Ceanothus coccineus*

13190. *Rubus parviflorus*.

13191. *Lilium occidentale*

13192. *Crepis acuminata* var.

July 21, 1937.

13193. *Castilleja pinctum*

13194. *Scutellaria antirrhinoides*

13195. *Lupinus abotensis*
Colla bluish

13196. *Carex Hoodii*

13197. *Carex leptopoda*

13198. *Carex brevipes*

13199. *Carex Preslii*

13200. *Viola Sheltonii*

13201. *Arabis glabra*.

13202. *Arabis pycnocarpa*.

July 21, 1937.

South Fork of Salmon River near
Big Flat, Siskiyou Co.

113203. *Arabis retrofracta*

113204. *Arabis suffruticosa*

113205. *Arabis Drummondii* var.
pratensis.

Upper end of Big Flat (south side),
Trinity Co. ca. 5000 ft.

13206. *Downingia*

1 Corolla - limb flat, lobes upper
lip erect or very slightly curving
1 backward, slightly divergent. Sinus
between upper and lower lip very
1 slightly, cut beyond the plane of the
1 limb; the lower lip with 2 low
1 ridges in the mouth; the whole
flowers lavender - blue except for

July 21, 1937

central yellow patch surrounded by
white in lower lip, 3 purple dots
in throat.

13206A. *Carex athrotaechys*

13207. *Lupinus sylvaticus*.

13208. *Trichostema oblongum*.

13209. *Festuca idahoensis*.

13210. *Ranunculus flammula* var.
reptans.

13211. *Polygonum Kelloggii*

13212. *Mimulus guttatus*.

13213. *Juncus* [*Brachyotachne*]
semicandatus n. sp. - Type.

3214 *Ranunculus orthorhynchus*

July 21, 1937.

South end of Big Flat, w. 5 mi. N. E.
Trinity Co.

13215. *Marrubium vestita*

13216. *Thysanurus minimus*

13217. *Allocazys hispidula*

13218. ~~Panicum~~ ^{Sporobolus} *micropermeus*

13219. *Panicum capillare* var.
occidentale.

13220. *Gnaphalium palustre*

13221. *Lotus nevadensis*.

13222. *Linanthus Starknessii*

13223. *Rigera divergens*.

July 21, 1937.

13224. *Agoseris heterophylla*
13225. *Menodella pallida*.
13226. *Eriogonum nudum*
13227. *Eriophyllum lanatum* var.
lanceolatum
13228. *Wenthamia californica* var.
americana.
13229. *Epilobium brevistylum*.
13230. *Amelanchier alnifolia*
13231. *Juncus biformis*
13232. *Trifolium cyathiferum*
13233. *Radiola sinuata*

July 21, 1937.

South end of Big Flat,
Trinity Co.

13234. *Minulus Breweri*.

Corolla nearly regular, pink with
rose markings.

13235. *Sanguisorba annua*.

13236. *Podium hyacinthinum*

13237. *Antennaria argentea*

13238. *Paeonia Brownii*

13239. *Silene Douglasii*

13240. *Ceanothus Douglasii*

13241. *Crepis occidentalis*

July 21, 1937.

13242. *Potentilla glandulosa*

13243. *Potentilla reflexa*

13244. *Potentilla reflexa*

This specimen and the two preceding grew together.

13245. *Agoseris retrorsa*

13246. *Agoseris hirsuta*

13247. *Agoseris hirsuta*

Nearer No. 13245 but in this the heads are smaller and the leaves are numerous - pubescent.

July 22, 1937.

South Fork of Salmon River near
Big Flat, Siskiyou Co.

13248. *Coallorhiza mertensiana*

13249 *Coallorhiza maculata*

13250. *Coallorhiza maculata*

13251. *Coallorhiza Bigelovii*

13252. *Carex festivella*

13253. *Carex integra*

13254. *Carex multicaulata*

13255. *Carex Kelloggii*

13256. *Carex Jonesii*

July 22, 1937.

13257. *Carex aurea*

13258. *Stipa californica*

13259. *Festuca occidentalis*

13260. *Sanicula septentrionalis*

13261. *Mitella trifida*

13262. *Collomia linearis*

13263. *Bambusa orthoceras*

13264. *Sanicula tuberosa*

13265. *Arabis arcuata*

13266. *Scorzonella nutans*

July 22, 1937

South Fork of Salmon River near
Big Flat, Siskiyou Co.

13267. *Menophila parviflora*

13268. *Viola lobata* var.

13269. *Arnica latifolia* var.

13270. *Sisyrinchium bellum*.

13271. *Juncus Nuttallianus*

13272. *Panicum parviflorum*

13273. *Linanthus ciliatus*

13274. *Camissonia nuda*

13275. *Spiza Douglasii*

July 22, 1937.

13276. *Mentzelia dispersa*.
13277. *Potentilla anadorensis*
13278. *Luzula comosa*
13279. *Thlaspi californicum*.
13280. *Garyophyllum humile*.
13281. *Collinsia tinctoria*
13282. *Hydrophyllum occidentale*
13283. *Cynoglossum occidentale*
13284. *Ribes Lobbii*
13285. *Ribes binominatum*
Flowers flesh-colored pale.

July 22, 1937.

South Fork of Salmon River near
Big Flat, Siskiyou Co.

13286. *Phacelia proserpa*

Corolla opening pale greenish
white, quickly becoming sordid tan,
the tube cylindrical, the limb flatish
with lobes somewhat recurved.

13287. *Physocarpus capitatus*

13288. *Stachys ajacoides*

13289. *Cornus stolonifera*.

13290. *Impatiens Andersonii*.

13291. *Aquilegia*

Only one plant seen without spers.

July 22, 1937.

13292. *Halimolobos scopulorum*

Plants to over 6 ft. tall.

13293. *Castilleja miniata*

13294. *Clintonia uniflora*

13295. *Chimaphila Menziesii*

13296. *Senecio* _____

13297. *Eragrostis umbellata*

Corolla frequently, white, anthers frequently yellow.

13298. *Streptanthus tortuosus*.

13299. *Minimus leptaleus* - 5/11

_____ l. l. Penicillium. 4/14.

13300. *Lithophragma scabrella*

July 22, 1937.

South Fork of Salmon River near
Big Flat, Siskiyou Co.

13301. *Delphinium menziesii* ??

13302. *Galium bifolium*

13303. *Gilia aggregata*

13304. *Lonicera conjugialis*

13305. *Ribes laevstre*.

13306. *Senecio tigonophyllus*.

13307. *Clarkia rhomboides*

13308. *Heiacium albiflorum*

13309. *Senecio lugens* var.
exaltatus

July 22, 1937.

13310. *Ribes nevadense*.

13311. *Cirsium renatifolium*
Flowers solid

13312. *Sidalcea spicata*

13313. *Sidalcea spicata*

13314. *Lupinus sylvestris*

13315. *Euphorbia crenulata*

13316. *Chenopodium atrovirens*.

13317. *Habenaria unalascensis*

13318. *Aquilegia formosa*

13319. *Melica subulata*.

July 22, 1937.

South Fork of Salmon River near
Big Flat, Siskiyou Co.

13320. *Modiola sessiliflora*

13321. *Poa Bolanderi*.

13322. *Carex hirtissima*?

Single plant seen in pine + fir
forest.

13323. *Aspidotrichum columbianum*
Flowers pale yellowish-green.

13324. *Aspidotrichum columbianum*.
Flowers from deep purple-blue to pale
blue tinged with green.

13325. *Silene Menziesii*

13326. *Aletrisaria incisa*

July 22, 1937.

13327. *Phacelia nuttalliana*

In flowerance not vigate

13328. *Phacelia nuttalliana*

In flowerance not vigate, corolla
tubular - compound.

13329. *Phacelia nuttalliana*

in congested place under bush +
logs - perhaps abnormal growth.

13330. *Silene Lemmonii*.

Petals 4 cleft, scales 2.

13331. *Crepis acuminata*.

13331 A. *Allocarya hispida*

July 23, 1937.

South Fork of Salmon River near
Big Lost, Siskiyou Co.

13332. *Carex ablata*

13333. *Carex lanuginosa*

13334. *Carex Hasseri*

13335. *Carex Cuatrecasasii*?

13336. *Carex interior*

13337. *Carex Jonesii*

13338. *Carex* _____

13339. *Carex Kelloggii*

13340. *Actaea arguta*

July 23, 1937.

13341. *Heracleum lanatum*.

13342. *Wyethia angustifolia*

13343. *Potentilla glabrata*

13344. *Halecium Bigelovii*

13345. *Achillea Millefolium*

13346. *Garrya Fremontii*

13347. *Poa pratensis*

13348. *Agastache verticifolia*

13349. *Mimulus Tiliigii*

13350. *Alnus tenuifolia*

July 23, 1937.

South Fork Salmon River near
Big Flat, Siskiyou Co.

13351. *Arenaria serpyllifolia*

13352. *Corylus rostrata* var. *Tracyi*.

13353. *Quercus Breweri*.

13354. *Rosa pisocarpa*.

13355. *Juncus occidentalis*

13356. *Allium validum*

13357. *Berberis Piperiana*

13358. *Sambucus glauca*.

13359. *Epilobium paniculatum*.

July 23, 1937

13360. *Trifolium succrocephalum*
13361. *Fragaria virginiana* var.
platypetala.
13362. *Symphoricarpos mollis*.
13363. *Angelica Lyallii*
13364. *Bromus vulgaris*
13365. *Melica aristata*.
13366. *Calochortus shastensis*
13367. *Cucaea pacifica*
13368. *Luzula*
13369. *Pachytima myrsinites*

July 23, 1937.

South Fork of Salmon River near
Big Flat, Siskiyou Co.

13370. *Arctostaphylos patula*

13371. *Tofieldia occidentalis*

13372. *Smilacina amplexicaulis*

13373. *Arabis Drummondii*

13374. *Arabis repanda*.

July 24, 1937.

Caribou Basin, 6500-7500 ft.,
Siskiyou Co.

13375. *Castilleja pinetorum*

13376. *Polygonum flavicollis*

13377. *Polemonium*

13378. *Arabis retrofracta*

13379. *Arabis suffruticosa*

13380. *Arnica latifolia*

13381. *Castilleja*

Inflorences dull brownish-red to
yellowish.

13382. *Eryngium*

July 24, 1937.

Caribou Basin, 6500-7500 ft.,
Siskiyou Co.

13383. *Gayophytum lasiospermum*.

13384. *Smilacina amplexicaulis*

13385. *Shepherdia tortuosa*

13386. *Cepis occidentalis*

13387. *Luethoe Davisiae*

13388. *Lupulegia formosa*

13389. *Viola MacDougalii*

13390. *Pentstemon procerus*
Culter's border-blue

13391. *Fan-tan, racemosa*.

July 24, 1937.

13392. *Hieracium gracile* var.
detonsum.
13393. *Saxifraga Bongardii*
13394. *Juncus communis*
var. montana
13395. *Alnus serrata*
13396. *Phyllocladus empetriformis*
13397. *Lutkea pectinata*
13398. *Potentilla flabellifolia*
13399. *Epilobium alpinum*.
13400. *Heuchera Merriami*
13401. *Antennaria alpina*

July 24, 1937.

Caribou Basin, 6500-7500 ft.,
Siskiyou Co.

13402. *Trifolium protractum*
Flowers pink.

13403. *Poa secunda*

13404. *Hesperium Menziesii*?

13405. *Pedicularis contorta*

13406. *Phlox Douglasii*

13407. *Lewisia triphylla*.

13408. *Saxifraga aprica*.

13409. *Hedeatherum glandulosum*.

13410. *Kalmia polifolia*

July 24, 1937.

13411. *Scirpus criniger*
13412. *Sibbaldia procumbens*.
13413. *Picea Breweriana*.
13414. *Ribes Hillebrandii*.
13415. *Minulus Breweri*
Flowers pink.
13416. *Vaccinium caespitosum*
13417. *Thaba Howellii* - Det. Hitchcock
Petals yellow,
13418. *Arabis Drummondii*
13419. *Agrostis exarata*.

July 24, 1937.

Carbon Basin, 6500 - 7500 ft.,
Siskiyou Co.

13420. *Eriogonum Lobbii*

13421. *Hieracium cynoglossoides*

13422. *Kelloggia galioides*

13423. *Ledum glandulosum*

13424. *Rhynchospora Penhallowii*

13425. *Juncus communis*

13426. *Arenaria congesta*

13427. *Carex Brainerdii*

13428. *Carex festucella*

July 24, 1937.

13429. *Carex multicostrata*

13430. *Carex brevipes*

13431. *Carex Preslii*

13432. *Carex spectabilis*

13433. *Carex*

13434. *Carex spectabilis*

13435. *Itabearia sparsiflora*

13436. *Pinus albicaulis*

13437. *Lewisia Leana*

13438. *Lewisia Cotyledon*

July 25, 1937.

Caribou Basin, 6500-7200 ft.,
Siskiyou Co.

13439. *Ranunculus Eschscholtzii*

13440. *Arctostaphylos nevadensis*

13441. *Spiza densiflora*

Flowers deep var-purple.

13442. *Muhlenbergia montana*.

13443. *Lasiope Mertensiana*

13444. *Arabis platysperma*

13445. *Muhlenbergia filiformis*.

13446. *Juncus* ?

dominus

July 25, 1937.

13447. *Eriogonum* - aff. *E. calycinosum*
13448. *Lewisia pygmaea*
13449. *Prunus emarginata*
13450. *Gomphidia obtusata*
Petals bright yellow
13451. *Colanoglossis kellerioides*.
13452. *Phacelia*
13453. *Loranthium macrocarpum*
13454. *Sanicula septentrionalis*
13455. *Senecio lugens* var.
exaltatus
13456. *Wenttonia californica* var.
americana.

July 25, 1937.

Caribou Basin, 6500-7200 ft.,
Siskiyou Co.

13457. *Pedicularis bracteosa*
Fls. pale yellow.

13458. *Ribes binominatum*

13459. *Ribes lacustre*

13460. *Eriogonum marifolium*

13461. *Ligusticum Pringlei*

13462. *Ribes Hallii*

13463. *Smilacina liliacea*

13464. *Boytchia major*.

July 25, 1937.

13465. *Salix itchenais*.

13466. *Eriogonum salicoides*

13467. *Carex lasiocarpa*

13468. *Potentilla Breweri*.

13469. *Pinus monticola*

13470. *Pinus Murrayana*

13471. *Taxus mertensiana*

13472. *Arctostaphylos patula*

Subprostrate on granite slopes above
Upper Caribou Lake.

13473. *Carex Kelloggii*

July 25, 1937.

Carbon Basin, 6500 - 7200 ft.,
Siskiyou Co.

13474. *Lewisia cotyledon* x *leana*
Petals pinkish - lavender to mauve.
Det. by Janet Holm, Apr. 1977.

13475. *Carex spectabilis*

13476. *Carex brevipes*

13477. *Carex Preslerii*

13478. *Carex spectabilis*

13479. *Carex spectabilis*

13480. *Carex spectabilis*

13481. *Carex spectabilis*

July 25, 1937.

The following sedges were collected
at Weber's Camp on Upper Conibou
Lake, Siskiyou Co.

13482. *Carex*

13483. *Carex integra*

13484. *Carex Hoodii*

13485. *Carex phaecephala*

13486. *Carex brevipes*

13487. *Carex nigricans*

13488. *Carex Preslii*

July 25, 1937.

Carbon Lake Trail, 6500 - 7300
ft., Steuart Fork of Trinity River,
Trinity Co.

13489. *Galium* *Bloomer* ♀
var. *linearis*
13490. *Galium* *Bloomer* ♂
var. *linearis*
13491. *Eriogonum nudum*
13492. *Arabis retrofracta*
13493. *Holodiscus discolor*.
13494. *Ceanothus prostratus* var.
Low sprawling plants, not prostrate
13495. *Castilleja parviflora*
13496. *Hydrophyllum occidentale*

July 25, 1937.

13497.

13498. *Lewisia Hectneri*.

13499. *Senecio lugens* var.
exaltatus.

13500. *Euphorbia aphanactis*

13501. *Pentstemon densatus*

13502. *Gompharia obtusatum*?

Petals yellow, stellately spreading from
about the middle.

13503. *Gompharia obtusatum*?

Petals cream-color, erect and forming
a tube, the tips spreading a little.

13504. *Carex Brainardii*

July 25, 1937.

Caribou Lake Trail, 6500-7300
ft., Stuart Fork of Trinity River,
Trinity Co.

13505. *Eriogonum compositum*

13506. *Eriogonum Lobbiai* var.
robustum.

13507. *Arabis arcuata* ?

Summit between Carbon Basin
and Stuart Fork of Trinity River,
7300 ft.

13508. *Saxifraga fragarioides*

13509. *Arabis platysperma*

13510. *Luzula divaricata*

July 25, 1937.

13511. *Primula suffruticosa*
limb cerise-rose, throat
yellow.
13512. *Anemone occidentalis*
13513. *Fiselyum spicatum*.
13514. *Arnica latifolia* var.
13515. *Allium Anabinae*.

July 26, 1937.

Caribou Basin, 6500 ft.,
Siskiyou Co.

13516. *Penstemon Berryi*.
Corolla beautiful pink.

13517. *Eriogonum marifolium*

13518. *Castanopsis sempervirens*.

13519. *Sorbus sitchensis*

13520. *Pyrola picta*.

13521. *Selaginella*

13522. *Quercus vacanifolia*

13523. *Stipa occidentalis*

July 26, 1937.

13524. *Charanthes gracillima*

13525. *Pallaea*

13526. *Allium falcatifolium*

13527. *Epilobium Pringleanum*.

13528. *Ribes Hillebrandianum*

13529. *Luzula parviflora*

13530. *Abies magnifica*

13531. *Schoenolirion album*

13532. *Carex phaeocephala*

13533. *Luzula*

July 26, 1937.

Caribou Basin, 6500 ft.,
Siskiyou Co.

13534. *Silene Douglasii*

13535. *Silene*

Same as preceding? Petals 4-
lobed, scales none. Pollen (?)
brunish-purple. The abundant
pollen maybe spores of a smut!

Caribou Mt., summit of trail
from Big Flat to Caribou Basin,
8000 ft., Siskiyou Co.

13536. *Luzula divaricata*

13537. *Pinus albicarpa*

July 26, 1937.

13538. *Arabis platysperma*
13539. *Arabis platysperma*.
13540. *Arabis arcuata* ?

Between Carbon Meadow and
Salmon River Canyon in Carbon
Julech, Siskiyou Co.

13541. *Rhamnus Purshiana*
13542. *Asarum Hartwegii*
13543. *Quercus chrysolepis*
Shrub 3-6 or 8 ft. tall
13544. *Penstemon Rattouii* var.
minor.

July 26, 1937.

Carbon gulch, Siskiyou Co.

13545. *Castanopsis sempervirens*

13546. *Ribes cuneatum*

13547. *Conus Nuttallii*

13548. *Erigeron compositum*

13549. *Ribes Hallii*

13550. *Lappula bella*

13551. *Arabis Drummondii*

13552. *Arnica latifolia*

13553. *Galium Bolanderi*.

♀

July 26, 1937.

13554. *Acer glabrum*

13555. *Carex Brainerdii*

13556. *Carex multicaulis*

13557. *Carex multicostrata*

13557A *Carex Preslii*

13558. *Carex nervosa*

13559. *Chimophila umbellata*

Salmon River Canyon between Big Flat
and Carbon Gulch, Liskiyou Co.

13560. *Philadelphus californicus*

13561. *Campanula prenanthoides*

13561A. *Erigeron sparganium*

July 26, 1937.

Salmon River Canyon between
Big Flat and Carbon gulch,
Siskiyou Co.

13562. *Galium Bolanderi*. ♂
Corolla maroon-red

13563. *Taxus brevifolia*.

13564. *Heuchera micrantha*

13565. *Sedum Gundyi*.

13566. *Gomphonis obtusatum*

13567. *Arabis arcuata* ?

13568. *Arabis arcuata* ?

13569. *Arabis retrofracta*

13570. *Arabis retrofracta*
with preceding. July 26, 1937.

Salmon River near Big Flat,
Siskiyou Co. July 27, 1937.

13571. *Pinus attenuata*

13572. *Thamnetra divaricata*

Big Flat, Trinity Co.
July 27, 1937.

13573. *Carex festivella*

13574. *Ranunculus Bongardii*

13575. *Hydrophyllum Fendleri*
var. *albifrons*

13575A. *Cirsium rotundifolium*

July 27, 1937.

Between Big Flat and Union Creek
along Coffee Creek, Trinity Co.

13576. *Caryx fraxea*

Coffee Creek Canyon at mouth of
Union Creek, Trinity Co.

13577. *Phacelia*

13577A. *Cirsium remotifolium*

13578. *Eriophyllum lanatum* var.
lanceolatum.

13579. *Lotus crassifolius*

13580. *Galium asperimum*
Flowers white

13581. *Ligusticum Pringlei*

13582. *Solidago elongata*

13583. *Penstemon Roeslii*

July 27, 1937.

Coffee Creek Canyon near mouth
of Union Creek, Trinity Co.

13584. *Ribes Hittelianum*.

13585. *Rubus leucodermis*.

13586. *Carex multicaulis*

13587. *Carex debilisformis*.

13588. *Carex Bolanderi*.

Coffee Creek Canyon near mouth of
Battle Creek, Trinity Co.

13589. *Ceanothus pumilus*

13590. *Arnica parviflora*

Coffee Creek Canyon near mouth of
Bottle Creek, Trinity Co. July 27, 1937

13591. *Pyrola dentata*

13592. *Trifolium Elmeri*.

13593. *Lathyrus Bolanderi* var.

13594. *Cirsium Breweri*.

13595. Near Coffee Creek Chalet,
Trinity Co. July 28, 1937.

13595. *Peltiphyllum peltatum*.

13596. *Achillea Millefolium*.

13

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July 28, 1937.

Trinity River Canyon near Eagle
Creek, Trinity Co.

13597. *Panicum Roeschlii*

13598. *Styplanthus barbatus*.

13599. *Cryptantha intermedia*

13600. *Gilia capillaris*

13601. *Linum micranthum*

13602. *Panicum pacificum*.

13603. *Ceanothus cuneatus*

13604. *Agrostis exarata*.

July 28, 1937.

Trinity River Canyon 2.5 miles
n. of Eagle Creek, Trinity Co.

13605. *Penstemon azureus*

Trinity River Canyon 3 miles n.
of Eagle Creek, Trinity Co.

13606. *Penstemon azureus*

1

1

Canyon of Jangle Blue Creek near
the Trinity River, Trinity Co.

13607. *Cirsium monianum*

1

Scott Mt. Creek, Scott Mts.,
Trinity Co.

13608. *Infolium Elversonii*

13609. *Lilium nevadense*

12

2 miles south of Summit of
Scott Mts. along road to Carville,
Trinity Co. July 28, 1937.

13610. *Cypripedium*
californicum

13611. *Juncus* ?

West side of Scott Mt. between
Trinity and Siskiyou crs. July 29, 1937.

13612. *Phacelia Pringlei*
Corolla rotate, pale lavender.

13613. *Penstemon Ruezlii*

13614. *Muhlenbergia filiformis*

13615. *Gazophytum humile*.

13616. *Poa Bolanderi*.

July 29, 1937.

West slope of Scott mt. between
Dickinson and Trinity coo.

- 1 13617. *Phacelia* ~~multiflora~~
1 13618. *Viola lobata*
1 13619. *Viola Hallii*
1 13620. *Poa Combyi*
1 13621. *Samolus tuberosa*
1 13622. *Allium folciferum*
13623. *Polygonum Kelloggii*
1 13624. *Braschampia elongata*
13625. *Sidalcea glaucescens*.
1
13626. *Carex teneraeformis*

July 29, 1937.

Summit ridge of Scott mt. between
Siskiyou and Trinity cos.

13627. *Eriogonum umbellatum* var.

13628. *Eriogonum umbellatum* var.

13629. *Eriogonum umbellatum* var.

13630. *Eriogonum marifolium*

13631. *Eriogonum umbellatum* var.

13632. *Arabis suffrutescens*

13633. *Arabis retrofracta*

13634. *Arabis canescens* ?

13635. *Ribes cereum*

July 29, 1937.

Summit Ridge of Scott Mt., between
Siskiyou and Jinty crs.

13636. *Erysimum capitatum*
to var. *perenne*
13637. *Streptanthus barbatus*
13638. *Campanula Bolanderi*.
13639. *Epilobium* ~~*obcordatum*~~ ^{*obcordatum*} ~~*sessile*~~.
13640. *Anemone gregaria*.
13641. *Pentstemon parvulus*
13642. *Castilleja pruinosa*.
13643. *Anemone baldensis*.
13644. *Erigeron Bloomeri*

July 29, 1937.

13645. *Astragalus siskiyouensis*
13646. *Crepis occidentalis*
13647. *Phacelia*
Corolla campanulate; open until
after anthesis. Inflorescence glomerate.
13648. *Epilobium paniculatum*
13649. *Cirsium inamoenum*
13650. *Erigeron lanatum* var.
achilleoides.
13651. *Chaenactis Douglasii*
13652. *Monardella ovata*
13653. *Orthocarpus Copelandii*

July 29, 1937.

Summit ridge of Scott mt.
between Siskiyou and Trinity cos.

13654. *Holodiscus discolor* var.
microphyllus
13655. *Cryptantha Toyonana*
13656. *Lomatium Anatinale*
13657. *Galium Bloomeri* ♀
var. *herbertianum*
13658. *Galium Bloomeri* ♂
var. *herbertianum*
13659. *Castilleja*
13660. *Allium Anatinale*
13661. *Aster Engelmannii*
13662. *Collinsia pauciflora*.

July 29, 1937.

13663. *Phlox Douglasii*

13664. *Sedum radiatum*

13665. *Gymnania obtusatum*?

13666. *Pinus monticola*

13667. *Lupinus croceus*.

North side of Scott Mt., Siskiyou Co.

13668. *Polystichum*

13669. *Isaetes Howellii*?

Submerged

13670. *Poa Pringlei*

13671. *Spizaea densiflora*

July 29, 1937.

North side of Scott Mt., Siskiyou
Co. July 29, 1937.

13672. *Ribes binominatum*

13673. *Carex gigas*

13674. *Carex Preslii*.

North slope of Scott Mts. near
road to Callabone, Siskiyou Co.
El. ca. 5500 ft.

13675. *Arabis retrofracta*

13676. *Erigeron ovalifolius*

13677. *Horkelia* - aff. *H. pulchra*.

13678. *Aster stantensis*

July 30, 1937.

Summit of Scott mts. on road
between Curwille and Callahan,
Trinity Co. ---

13679. *Arabis retrofracta*
13680. *Matthacium californicum*
13681. *Scirpus amydonii*
13682. *Sisyrinchium bellum* ?
13683. *Carex exsiccata*
-
13684. *Carex teneraefornis*
13685. *Carex*
13686. *Juncus* *diversiflorus*
-
13687. *Thlaspi* *divaricata*

July 30, 1937.

Scott Mts. summit north of
Carville on road to Callahan,
Trinity Co.

13688. *Carex*

13689. *Crepis montrisola*

13690. *Arnica parviflora*.

13691. *Phacelia halesiana*

13692. *Antennaria argentea*.

13693. *Juncus occidentalis*

13694. *Sidalcea spicata*

July 30, 1937.

Wan Rice Creek, Scott Mts.,
Trinity Co.

13695. *Rumex salicifolius*

7 miles from Trinity Center on road
to Waverville, Trinity Co.

13696. *Trichostema simulatum*

13697. *Gilia reptans*

13697A. *Valeriana glauca*

1 miles east of Waverville,
Trinity Co.

13698. *Navaretia strictifolia*

Junction City, Trinity Co.

13699. *Eriogonum sulphureum*

13700. *Eriogonum virenum*

13701. *Eriogonum virgatum*

Junction City, Trinity Co.

July 30, 1937.

13702. *Cirsium candidissimum*

5 miles west of Junction City,
Trinity Co. July 30, 1937

13703. *Calycadenia scabellata*

11 miles west of Big Bar,
Trinity Co. July 31, 1937.

13704. *Panstenon corymbosus*

13704A. *Menziesia micrantha*

13705. *Streptanthus tortuosus oblongus*

13705A. *Phacelia* ~~oblonga~~ *sp. rigida*

5.5 miles east of Bunte
Ranch, Trinity Co. July 31, 1937.

13706. *Hemizonia congesta* ssp.

Tracyi. - a gray form.

13707. *Lesqueria nemoclada*
var. *mendocina*

July 31, 1937.

13708. *Cuscuta californica*

13709. *Pharisma californica* var.
toментella.

Near Hawkins Bar, Trinity Co.

13710. *Eupatorium occidentale*

Trinity River near mouth of South
Fork of Trinity River, Trinity Co.

13711. *Navarrelia squarrosa*.

13712. *Navarrelia atrocyanea*.

Trinity River Canyon 2 miles west
of Trinity Co. line, Humboldt Co.

13713. *Cirsium candidissimum*

July 31, 1937.

Boise Creek 11 miles east of
Berry Summit, Humboldt Co.

13714. *Ligusticum apiculatum*

13715. *Phacelia*

Corolla cylindrical, the lobes
erect and not spreading at all.

5 miles east of Berry Summit,
Humboldt Co.

13716. *Cirsium Breweri*.

13717. *Rhamnus occidentalis*.

Between Redwood Creek and
Korbels, Humboldt Co. (12 miles
east of Korbels.)

13718. *Phalaris*

July 31, 1937.

3 miles east of Ketchikan,
Humboldt Co.

13719. *Horradia Bertaria*
viscosa.

Salt marsh bordering Humboldt
Bay at Crescent, Humboldt Co.

13720. *Grindelia*

4 miles north of Lelita,
Humboldt Co.

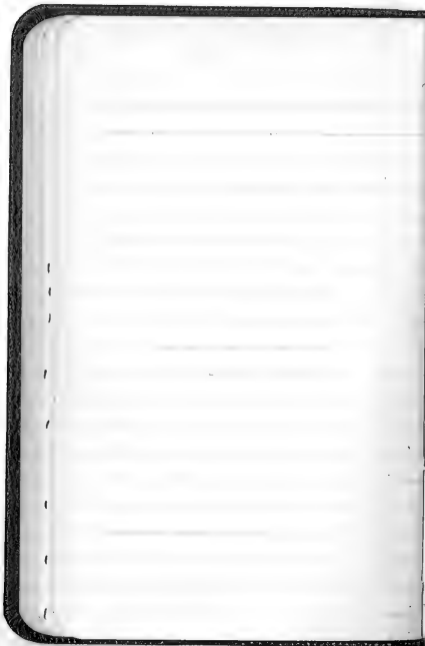
13721. *Phalaris stenoptera*

13722. *Agrostis palustris*

13723. *Spergularia*

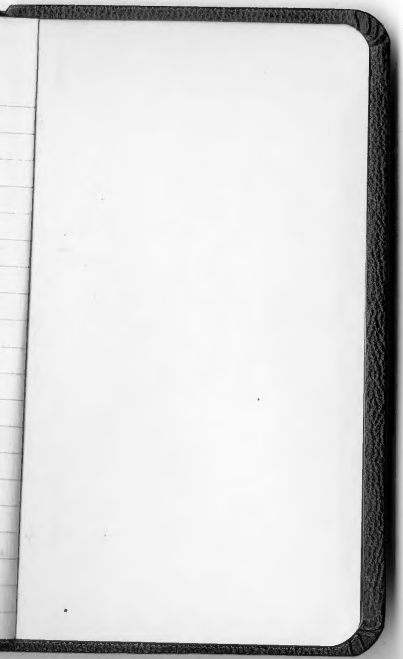
Stems suberect. Crevices of
gutters along path in front of
Life Sciences Bldg., University
of California, Berkeley. Aug. 22, '93.











B&PN^o 3810½



