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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Jack Reveal

#10

Coll. Numbers
1397 to 1706

from 7 May 67

to 20 Sept 69



about 1800

Note some grasses have
been det. by A. H. Holmgren
Jan 1880

& M. E. Barlow
did Stipas

#10

JACK L. REVEAL -
Collection notes -

Last Mono Basin No. is
1259. ending 3/31/67

Begin San Diego with #1300
(no numbers 1260 to 1299)

5-7-67

Cameron Proj. above station
Annual grass 3400' = 1040'
32° 40' 4" 116 20' 7"

1397 Lupine, annual
semi-prostrate.

[#1300 to 1396 have been lost
these were Cleveland N.F. collected]

1398 Cryptantha - annual
openings in chemise

1399. Bromus - perennia? -
edge of chemise - annual
grass. Disturbed soil. - 2" high

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openings in chemise

1399. Bromus - perennial? -
edge of chemise - annual
grass. Disturbed soil. - 2" high.

5-7-67

1400 Unknown - annual w/
white (cream) fls. drooping, 1/2" long
hairs culms.

1401 - *Salvia* - annual

1402 *Crucifera* - annual - yellow
fls.

1403 Poppy, yellow

1404 - Lupine annual
fls blue, much branched

Lupinus, ~~agardhianus~~ Heller
 concinus Agardh.

ssp concinus Murray FSC p 453

5-7-67

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ssp concinus Murray FSC p 453

1405 Yucca. narrow lvs
w/o fibers; fls white tinged
w/ purple.

32°-40.2 - 115° 28.7 W

Kitchen Cr above campground
ca 1 mile. 5-7-67 3950'
1200M
Along stream.

1406 Bromus. ca 24" high,
bunch grass; perennial

Bromus marginatus Nees.

glume - 5 nerved, 2nd glume - 9 nerved, floret 9
nerved. Paleae, 1/2 length of lemma. Sheath
lose

1407 - Poa growing in clefts of

rock ~~in moist sand~~. Perennial
Helica imperfecta Trin.

perfect florets 2

[Festuca myuros L.]
1408 Stipa. perennial - in rocks
along stream. ~~S. speciosa~~

[Festuca myuros L.]

Vulpia myuros ~~Retz~~ (L.) Gme

1409 Poa. perennial. Moist
sand along stream

Poa pratensis L.

1405 Yucca. narrow lvs
w/o fibers; fls white tinged
w/ purple.

32°-40.2 - 115° 20.7 W

Kitchen Cr above campground
Ca 1 mile. 5-7-67 3950'
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bunch grass; perennial

Bromus marginatus Nees.
1st glume - 5 nerved, 2nd glume - 9 nerved, floret 9
nerved. Paleae, 1/2 length of lemma. Sheath
pubescent

1407 - Poa growing in clefts of
rock ~~in moist sand~~. Perennial

Melica imperfecta Trin.

Perfect florets 2

[Festuca myuros L.]
1408 Stipa. perennial - in rocks
along stream. ~~S. sp.~~

[Festuca myuros L.]

Vulpia myuros ~~Retz~~ (L.) Gmel.

1409 Poa. perennial. Moist
sand along stream

Poa pratensis L.

5-7-67

4.5 km

2.8 mi above
W-R spa.

Cameron Proj. FRED Canyon -

Among granit boulders on point.

116 20^E W 32° 40.5 N

1410. Bunch grass. 4400' = 1340 M

Melica imperfecta

Road to Tule Springs - 3
1/2 mi N. of Valley - 6-~~8~~-67

1411 - Blue curls - (?)
Trichostema lanatum

1412 "gilia" resampling
a corezanthe. Pink knawed fls.

1413 - Umbelliferous - in
seed

1414 - Gilia - tiny blue flowers
Erastrium? Annual

1415 - Creptanthus - annual - white

1416 - Composite incomp. fls -
+ woolly. Annual - perennial from
runners?

1417 - Shrub - cream fls. 5'
opp. lvs. Terminal umbel
whorled.

6-7-67
3

1418 - halfshrub - bright yell
reg. fls. many orange stamens
brt gr. foliage. Creeper 12"-14"
in clumps.

1419 Sunflower - perennial
2-5' high.

1420 *E. fasciculatum*
shrub - 24-48" high.

1421 *Chamaecrista*

1422 - Hoarhound
perennial - 36"+

6-~~7~~-67
3

1418 - halfshrub - bright yell
reg. fls. many orange stamens
white gr. foliage. Creeper 12"-14"
in clumps.

1419 Sunflower - perennial
2-5' high.

1420 *E. fasciculatum*
shrub - 24-48" high.

1421 *Chamae*

1422 - *Hemibombax*
perennial - 36" ±

"Canchalagua"

1423 Annual - pink fl. close to yellow
curled yellow anthers

Centaurium venustum

1424 Annual - deep purple
Calyx ~~set~~ pressed back against
stem. Anthers yellow; stigma purple

6-³~~8~~-67 - along Lulu
Sprs. Road - mostly N.
slope.

1425 - Scarlet penstemon
shrub.

1426 Rose. Creek
bottom.

"Canchalagua"

1423 Annual - pink fl. close to yellow
curled yell anthers

Centaureium venustum

1424 Annual - deep purple

Calyx ~~set~~ pressed back against
stem. anthers yellow; stigma purple

6-³~~8~~-67 - along Juli
Sprs. Road - mostly N.
slope.

1425 - Scarlet penstemon
shrub.

1426 Ross. Creek
bottom -

1427 Nutschelle shrub
24" high - clump
Solanum xanti

1428 *Salvia* -

1429. *Compositae*
12 - 36" - perennial

1430 *Diplocus*
Shrub - yell fls.

1431 - Pea -
red-vul. (blue) fls. vine like
Lathyrus lactiflorus Greene
~~var.~~ ssp. Alefeldii (White) Brads.

1432 Castilleja - half-shrub

1433 - Thistle - pinkish fls.
Cirsium californicum Gray
var. bernardinum (Greene)
Petr.

Old Rd. between alpine + ~~31~~
Pescadero June 4. 67

1434. Legume - broomlike with
large showy yell fls
Spartium junceum L.
"Spanish broom"

1431 - Pea -
red-vul. (blue) fls. vine like
Lathyrus laetiflorus Greene
~~var.~~ ssp. Alefeldii (white) Brads.

1432 Castilleja - half shrub

1433 - Thistle - pinkish fls.
Cirsium californicum Gray
var. bernardinum (Greene)
Petr.

old rd. between alpine & ~~31~~
Pescadero June 4. 67

1434. Legume - broomlike with
large showy yell fls
Spartinum juncum L.
"Spanish broom"

1435 Vine-like shrub
with cream fls. irregular
-exserted yell. stamens.

1436 *Larkspur*. Perennial -
24-36" high -

1437 Annual resmb. plantain

1438 *Oenothera* - upto 30" high
globose, ⁺leaves; fls. yell. small

1439 - *Thistle* - perennial?
common. annual w/ yell. fls.
Centaurea melitensis L.
"Tocalote"

7-4-67

1440 *Chaenactis*

annual -

Chaenactis artemisiaefolia
(Harv. & Gray) Gray.

1441 *Phacelia*

annual

1442 *Yerba Santa*

shrub.

1443 *Lappula* ? vine-
like, shrubby,

1444, (Second deep gulch
on graded hwy. R.D. east of
Indian Mission
flannel bush
fremontii.)

1445 flax-blue fls - annual

1446 Sisyrinchium

1447 - Onion - white fls.

1444, (Second deep gulch
on graded Co. Rd. east of
Indian Mission
flannel bush
fremontii.)

1445 flat - blue fls - annual

1446 Sisyrinchium

1447 - onion - white fls.

1448 Cleveland sage

1449 *Ceanothus*

1450 *Peucephyllum - pennsylvanicum*
± 24" high.

1451. Mallow. half shrub

1452 - *Lupinus pennsylvanicus*
deep - 36" ±

1453 Clover

1454 Achillea.

Singing Hills. 6-18-67
Willow Glen Rd.

1455

Lappula - Lelydrub.

1456. Penstemon - fls blue ish.
5' tall - shrubby; lower lvs.
linear, ± petioled; sterile stamens
glabrous.

6-18-67

1457 - Elderberry

Sambucus coerulea Raf.

Sweetwater river s. of

Ochesa School

1454 Achillea.

Singing Hills. 6-18-67
Willow Glen Rd.

1455
Lappula - Lelydrub.

1456. Penstemon - fls blue-ish.
5' tall - shrubby; lower lvs.
linear, ± petioled; sterile stamens
glabrous.

6-18-67
1457 - Elderberry
Sambucus coerulea Raf.
Sweetwater river s. of
Ochesa School

1458 - Shrub - 5' tall - yel. irreg
fls. flos opp.

Penstemon antirrhinoides
(?) not viscid.

Head of Beaver Hollow at
creek crossing.

1457 *Castilleja* -

annual - orange - yel.

Castilleja stenantha Gray.

1460 *Polygonum manspelersii*

1461 *Penstemon*
~~*Castilleja*~~ - annual - moist
yel fls.

1462 ~~*Penstemon*~~ - yel fls
~~annual - wet ground~~

1462 Umbelliferae - white fls; fls
Capitate -

1463 Composite - white ray fls. Annual
Anthemis Cortula L. (?)

at some old stacks further on

1464 "Red Grass" - 6-8' high -

1465 Comp. annual w/ yel fls
(all) - phys. encl. present?

1462 Umbelliferae. white fls; flat
Capitate -

1463 Composite - white ray fls. Annual
Anthemis Cortula L. (?)

at some old stacks further on

1464 "Red Grass" - 6-8' high -

1465 Comp. annual w/ yel fls
(all) - phys. encl. present?

Sat. June 24 '67
Gantay camp,

1466. Cedar - Cypress.

1467 Penstemon - shrubby, narrow
leaf. fls reddish lavender.
P. Thuberi?

1468 Penstemon - half shrub
broadleaved - opp. perfoliate -

Pine Valley - 6-24-67

Sage - J.P. type. 3650' = 1100
32°50.1' N 116°30.15' W

1469 Castilleja
half shrub. Stems angular, red.
Castilleja affinis H. & H.
Munz p 691

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Gantay camp.

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leaf. fls reddish lavender.
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32°50.1' N 116-30.15 W

1469 *Castilleja*

half shrub. Stems angular, red.

Castilleja affinis H. & H.
Munz p 691

1470 Lupine. Shrubby - 12-16" high
blue fls. seed not maturing. lavender.
Lupinus adsurgens E. Drew
along FSC p 453

Astragalus
1471 ~~low~~ - yellow fls.
Astragalus douglasii
(T. & G.) Gray var douglasii

1472 low - 3-4" linear leaved plant
creeping, roots, erect.

1473
Lupine, annual - ^{whorled +} blue fls - low.
small lvs. fls very tiny
only scarcely whorled

[Lupinus aff. agardhianus]
Heller

keels ciliate upper margin tip.
hence: Lupinus bicolor

Lindl. ssp microphyllus (Wats.) D. Don

1474 *Bromus perennis* - 30"
bunch grass.

1475 - Perennial bunch grass -
24" - 30" - narrow compact spike

Setaria 6 cm - 8 cm tall

M *Koeleria cristata* - (L.) Pers.

1476 *Eriogonum annul*

1477 *Escholtzia* - yell fls.

Eschscholzia californica Cham.

a diminutive form w/
petals ca. 13 mm long.

1478 succulent like

1479 - [Hordeum ^{jubatum} ~~subsp.~~]
Sitarian hystrix (Nutt.) J. G. Sm.
var longifolium (J. G. Small) Hitchc.

1480 - Bromus tectorum
Bromus tectorum L.

1481 - Hordeum brachyantherum

7 dm to 1 m

1482 - Tall 30-40" weed - capitulate

heads of white fls.

Gilia capitata Sims ssp. abrotanifolia
(Nutt. ex Greene) V. Grant.

June 28/1967

1483 - ^{Kitchen} laric. of Campanula Cr. on hay
tall - 36"-48" perennial w/ yell fls,
glaucous, dissected lvs, compound

Dicentra chrysantha
(H. & A.) Walp.

1484 Sheephead unit s. of
Couch mdr. Laguna ME

In meadow (dry). Prostrate

Ivesia

6-28-67

1484. ~~Yellow~~ ^{Bloomeria} ~~fruticosa~~, In
roadside bench edge w/ cheatgrass.
B. crocea (Torr.) Cov.

1485 *Gentiana*
Centaurium venustum (Gray)
Rob.

Meadow land - Sheepshead.

June 29 1967

Cameron Mtn - range divide

1486. *Agropyron desertorum*
(Fisch.) Schult.

1487. ~~*A. sp. crestatum*~~
Lolium perenne L.

1488. Large resinous
comp. glandular.

Hulsea californica Gray

1489 - Annual - Composite.

Yel. ray fls.

Sheepshead Mtn.

6-28-67

Bloomeria
1484. Yellow fruit-bearing. In
roadside bench edge w/ cheatgrass.
B. crocea (Torr.) Cov.

1485 *Gentiana*
Centaurium venustum (Gray)
Rob.

Meadow land - Sheepshead.

June 29 1967

Cameron Mtn. - range divide

1486. *Agropyron desertorum*
(Fisch.) Schult.

1487. ~~*A. sp. cristatum*~~
Lolium perenne L.

1488. Large racinons
comp. glandular.

Hulsea californica Gray

1489. Annual - Composite.

Yel. ray fls.

Sheepshead Mtn.

Sheephead Truck Trail 6/24/53

1490 Salvia, shrub - ca 30"

High, round. Edge of
chamiso-chaparral. Sheephead
T.T. Trichostema
lanatum Benth.

1491 Helianthus -

Wyethia? Half
shrub - scapose. leafy at base.
Helianthus gracilentus Gray?

1492. A red larkspur

1493 Rhamnus californica

1494 Q. dumosa.

1495 Atractodes glandulosa

Sheephead Truck Trail 6/29/57

1490 Sabinia, shrub - ca. 30"

high, round. Edge of
chamisa-chaparral. Sheephead
T.T. Trichostema
lanatum Benth.

1491 Helianthus -

Wye-thin? Half
shrub - scaprose. leafy at base.
Helianthus gracilentus Gray?

1492. A red larkspur

1493 Rhamnus californica

1494 Q. dumosa.

1495 Arctostaphylos
glauca

1496 *Ceanothus greggii*

1497 *Rhus crocea* Desv.

1498 *Ceanothus leucodermis*

JULY 4 '67

Rd to Cuyamaca State Park.

1499 *Heliotropium* -

an. weed - straggly, blue fls.

1500 *Oenothera*

annual - yell. fls.

Julian - spr. ca. 1 mi

NW. - Moist ground at seep.

1501 - *Mimulus guttatus*

1496 *Oenothera coccinea*

1497 *Rhus coccinea* L.

1498 *Oenothera leucoderms*

JULY 4 '67

Rd to Cuyamaca State Park.

1499 *Heliotropium* -

an. weed - straggly, blue fls.

1500 *Oenothera*

annual - yell. fls.

Sullivan - spr. ca. 1 mi

NW. - Moist ground at seep.

1501 - *Mimulus guttatus*

1502 Epilobium. annual
blue fls.

1503. Legume. annual, slender,
wh. fls.

1504. a rush.

1505 a carex

1506. Rumex

1507 Plantain

1508 - Sunflower

1509 - Montia

M. perfoliata (Donn.) Howell.

1502 Epilobium. annual
blue fls.

1503. Legume. annual, slender,
wh. fls.

1504. a rush.

1505 a carex

1506. Rumex

1507 Plantain

1508 - Sunflower

1509 - Montia

M. perfoliata (Donn.) Howell.

July 9 1967 - Cuyamaca Res.

roadside ditch - moist soils -
W. side near dam.

1510 Timothy

1511 - Elymus - perennial ssp.

1512 In dry soils of benches
in grass tuff.

Penstemon. fls. violet-pinkish
blue. Perennial - 12-24" high. Leafy

1513 Grass - (Setaria?) in water.

1514 Plantain. Perennial - 12"-24"

~~1515~~ 1515. Composite. Annual - 6"-18"
tall, leafy stem. dry soil. Rays curled
in, plumbeate on ends, white on back,
pappus none. Fork shaped glumes on
bl.

July 9 1967 - Cuyamaca Res.

roadside ditch - moist soils -
W. side near dam.

1510 Timothy

1511 - Elymus - perennial ssp.

1512 In dry soils of benches
in Grass type.

Pentstemon. fls. violet-pinkish
blue. Perennial - 12-24" high. Leafy

1513 Grass - (Setaria?) in water.

1514 Plantain. Perennial - 12"-24"

1515. Composite. Annual - 6"-18"
tall, leafy stem. Dry soil. Rays curled
in, plumbeate on ends, white on back,
pappus none. Tube shaped glumes on
bl.

7-9-67

amurensis
1516 - Gentiana - blue - small
shiny buds.

1517 - Wyethia. Rays - 4-6
Wyethia ovata (T+G.)

~~1518 - Ca~~ July 9 1967

Laguna Mt. Roadside at
Shrine Camp

1518 - Shrub - 8-12" blue heads &
fls. Phlox family

Laguna mtn. (Laguna Camp Ground)

1519 - Castilleja - dry level - forest

1520 - Beronius cuneatus? fr forest.

1521 Elymus. Peren. w/ wetlocks

1522 Poa

7-9-67

anacardis

1516 - *Gentiana* - blue - small
shiny buds.

1517 - *Wyethia*. Rays - 4-6
Wyethia ovata (T+G.)

~~1518~~ Ca

July 9 1967

Laguna Mt. Roadside at
Shrine Camp

1518 - shrub - 8-12" blue heads of
fls. *Phlox* family

Laguna mtd. (Laguna Camp Ground)

1519. *Castilleja* - dry level - forest

1520 - *Bromus cernuus*? fr forest.

1521 *Elymus* - Peren. w/ sweetlocks

1522 *Poa*

1573 - *Lesqueris* - white fls.
in woods under trees

July 16 - '67 Elsenore grade.
at NF Bely.

1524 Composite. *hoplopappus*?
yell. rays 12-15 narrow. Phyllaries
at base narrow, divergent,
shrub -

1525 - *Eriogonum fasciculatum* -

1576 - San Luis Rey River.
Coffee berry.

1527 *Poa*

1573 - *Lespedeza* - white fls.
in woods under trees

July 16 - '67 Elsenore grade.
at NF Boley.

1524 Composite - *hoplopappus*?
yell. rays 12-15 narrow. Phyllaries
at base narrow, divergent,
shrub -

1525 - *Eriogonum fasciculatum* -

1576 - San Luis Rey River.
Coffee berry.

1527 *Poumon*

Aug 30 - 1967

1528 - *Haplopappus*
H. Parryi (Greene) Blake
1 mi E. of Rancho Alegre -
Mtns S. of San Diego.

1968

Feb. 18 -

1529 Tasseled shrub. Evergreen.
Opposite leaves

Feb 22 - Calexico Junction
(1968)

1530 - Composite
Geraea canescens T. & G.

1531 ~~Globe Mallow~~ Desert Lily
Hesperocallis undulata Gray

1532 - ~~Succulent~~ Globe Mallow
5-spots.

Malvastrum rotundifolium Gray

1533 - Turtlebeak.

~~Psyll~~

Psathyrotes ramosissima
(Torr.) Gray.

Aug 30 - 1967

1528 - *Haplopappus*

H. Parashii (Greene) Blake
1 mi E. of Rancho Alegre -
Mtns E. of San Diego.

1968

Feb. 18 -

1529 Tasseled shrub. Evergreen.
Opposite leaves

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1532 ~~Globe Mallow~~ Desert Lily
Hesperocallis undulata Gray

1531 - ~~Succata~~ Globe Mallow
5-spots.

Malvastrum rotundifolium Gray

1533 - *Luttrebach.*

~~Psoralea~~

Psathyrotes ramosissima
(Torr.) Gray.

1534 Cressate bush -

1535 Cruciferae - fls purple,
clawed, Stamens yell - achenes
star shaped in x section. Spines
at internodes

1536 Frost Mat

~~1536~~ ³⁷ ~~Euphorbia?~~ fls. small,
white / *Achyrotonychia*
Cooperi T. & Gray.

1537 ¹⁹⁶⁸ March 10. Vista-San Marcos
(E. Santo Fe Rd.)

1537- Thistle w/ yell. fls.
Picris echnioides L.

1534 Cessate bush -

1535 35 Cruciferae - fls purple,
cleaved, Stamens yell - anthers
star shaped in x section. Spines
at internodes

1536 Frost Mat

~~1536~~ ³⁹ Euphorbia? fls. small,
white / Achyrocnichia
Cooperi T. & Gray.

1537 ¹⁹⁶⁸ March 10. Vista-San Marcos
(E. Santo fe Rd.)

1537- Thistle w/ yell. fls.
Picris echnioides L.

May 18 1968 - Mt Pinos along
firebreak N. of Lookout

1538 - Salvia sonomensis
abundant locally

1539 - ca. 1 mi N. Mt. Pinos in
granite. Shrub - Mimulus w/
shaggy bark, yell fls. Lvs. not
stuck, rolled edges. Shrub 24"-30"
Mimulus aridus (Abrams) Grant.

May 19 - 1968 -

1540 along state 94 - S. of Jamboul
Elderberry.

Sambucus mexicana Presl.

1541 Barrett Lake June. 1968
State 74.

Poppy - MITILIA Poppy
Romneya tricocalyx Eastw.

May 18 1968 - Mt Pinos along
firebreak N. of Lookout

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granite. Shrub - Mimulus w/
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State 74.

Poppy - MITILISA Poppy
Romneya tricocalyx EASTW.

5-19-68

Ca 2 mi W. Campo on Hwy 67
1542 Bush Poppy

Dendromecon rigida Benth.

~~1543~~ ~~Moreno Cr. 2 mi E.~~
~~of Moreno CDC.~~

~~15~~

Moreno Lake Road

1543. *Mimulus fremontii*
annual. Scabbed ground
along road

Mimulus Fremontii (Benth.) Gray.

1544. annual - *Plagiotyphloides*
ca (?)

5/19/68

~~1545~~ - Moreno Cr. 2 mi
E. of Moreno CDC.

annual grass - woodland

1545 Shubby Solanum

1546 - ~~Queen Anne's Lace?~~

annual. Pale blue heads of fls.
Gilia capitata Dougl.

1547 Chinese Houses.

Collinsia concolor Greene

1548 - Clarkia

Clarkia rhomboidea Dougl.

1549 - Mimulus - annual
yell fls.

Mimulus brevipes Benth.

1550 - Montia -

1551. ~~Annual~~ Larkspur

Deep seated - rootstocks - single
stem. Not easy. Easily separated
from roots.

(?) Delphinium Purshii Gray

1546 - ~~Queen's Anne Lace?~~

annual. Pale blue heads of fls.

Gilia capitata Dougl.

1547 Chinese Houses.

Collinsia concolor Greene

1548 - Clarkia

Clarkia rhomboidea Dougl.

1549 - Mimulus - annual
yell fls.

Mimulus brevipes Benth.

1550 - Montia -

1551. ~~Annual~~ Larkspur

Deep seated - rootstocks - single
stem. Not leafy. Easily separated
from roots.

(?) Delphinium Parryi Gray

June 16 1968-

Laguna Mtn. near Couch Mdw

1552-

Ceanothus Palmeri TREL

1553 - Cercocarpus betuloides

Viejas - near honor camp.

1554 - Arctostaphylos pungens

H.B.K. Mexican Manzanita

1555 Ceanothus cuneatus

(Hook.) Nutt.

1556 - ~~Laguna Mt. near Couch~~^{sh}
~~Manzanita.~~

~~Leucocoria?~~ Snow

Agua Dulce -

1557

Perennial grass under oaks +
pines. Elymus -

no stolons

1558 - Perennial - grass

Setaria

6/16/68

Wooded Hill - Laguna Mtn.

1559 - Annual cespitose phlox,
w/ orange-white fls.

Collomia grandiflora Dougl.

1560 - Cespitose shrub with
heads of white bi-labiate fls.

pink fringe on bracts

Monardella nana Gray

1561 *Castilleja* perennial

C. Martinii Abrams - Munz p 670

1562 - mallow - perennial from
heavy root crown.

1563 Black oak

1564 ~~black~~ oak Live oak

1565

Arctostaphylos glandulosa
Eastw.

1566 *A. glandulosa* Eastw.
intermediate with *A. tomentosa*
(Pursh.) Lindl. (*Arctostaphylos*)

6/16/68

Wooded Hill - Laguna Mtn.

1558 - Annual corymbose-fl. w/ orange-white fls.

Collomia grandiflora Dougl.

1560 - Cespitose shrub with head of white bi-labiate fls.

pink fringe on bracts

Menardella nana Gray

1561 *Castilleja peruviana*

C. Martiana Abrams - Menz p 670

1562 - mallow - perennial from heavy wet crown.

1563 Black oak

1564 ~~black~~ oak Live oak

1565

Arctostaphylos glandulosa Eastw.

1566 *A. glandulosa* Eastw. intermediate with *A. tomentosa* (Pursh.) Lindl. (above *A. plumosa*)

1567 - Scrub Oak

June 23 1968 -

Palomar Mtn. - Jeffrey P. Wood - CR.

1568 - *Rosa Californica* C+S.

1569 - Injense Cedar

1570 - White Fir

1571 - *Rubus* - Fry Creek.

R. parvifolius Nutt

1572 - Brodiaea

1573 - azalea -

Rhododendron occidentale (T+B) ^{Gray}

1574 - *Chaenactis* w/ yell fls.
annual -

Chaenactis glabriuscula

DC. var. *C. curta* (Gray) Jeps.

1567 - Scrub Oak

June 23 1968 -

Palomares Mtn. - Jeffrey Pines - CR.

1568 - Rosa Californica C+S.

1569 - Injense Cedar

1570 - White Fir

1571 - Rubus - Frag Creech.

R. parvifolius NPTT

1572 - Brodiaea

1573 - azalea -

Rhododendron occidentale (T+B-)^{Gray}

1574 - Chaenactis w/ yell fls.
annual -

Chaenactis glabriuscula

DC. var. ~~C.~~ curta (Gray) Jeps.

June 29 1968

Willow Rd E. of Alpiro

1575 - Big berry manzanita

CALABAZILLA

1576 - Coyote mallow - yell. fls.

Cucurbita foetidissima

1577 - morning glory } HBK

Convolvulus arvensis (~~Jeps~~) L.

J. Howell

1578 - Big berry manzanita

U. glauca Lindl.

1579 - *Stipa pennina*

Andropogon barbinodis Lag.

Deaseau R.S.

1580 *Penstemon*

1581 - *Aster - Erigeron*

Erigeron foliosus var

stenophyllus (Nutt.) Gray.

1582 - manzanita -

July 7 1968 Pine Valley

1583 - *Artemisia tridentata*

1584 - *Mangonita* - ^{*caucensis*} ~~*A. glandulosa*~~ -
the ~~non-glandular~~ form, *Pungens*

Morena Res. Area - Camp Rd.
July 7 1968

1585 - *Yerba mansa*

1586 - *Alypsis* - annual

from Laguna Junction.

1587 - a legume? part fl.
perennial.

1588 - opposite meadow before
Morena Road

a shrubby haptopogon, very woolly
not yet in flower.

1589 - Annual? heliotrope
- Roadside

1590 *Eriogonum*
annual - Roadside - Campo.

9-1-68 - Old Vedig Gulch -
1591 Ca 2 mi N. Descanso

Eriogonum - perennial. per.
dry base. 36" tall; fls white; erect
on long whip-like stems; stipitate
- 1 at node; spiracle.

E. elongatum Benth.

1592 10/18/68

Cottonwood Cr. (Buchman Sprs Rd.)

Haplopappus pinifolius A Gray

10/20/68 -

old hay bet. Wisteria + Succumba.

1593 - *Haplopappus cuneatus*

in the grassy roadside border

1589 - Annual? heliotope
- Roadside

1590 *Eriogonum*
annual - roadside - Campo.

9-1-68 - Old Vedigo Quail -
1591 Ca 2 mi N. Descanso

Eriogonum - perennial. from
dry base. 36" tall; fls white; erect
on long whip-like stems; stipitate
- 1 at node; spikelets.

E. elongatum Benth.

1592 10/18/68

Cottonwood Cr. (Buchman Sprs Rd.)

Haplopappus piniifolius A Gray

10/20/68 -

old hwy bet. Wisteria + Socumbe.

1593 - *Haplopappus cuneatus*
in the ground-crete boulders

- Matchweed w/ large
leaves.

propinquus
Haplophyllum. 24-30" Blake
yellow fls.

- Euryoma - annual

isotri Greene

ann. comp. w/ pink fls

Stephanomeria

Euryoma perennial shrub

or membranaceum

comp. w/ yellow fls. - gummy

resin, annual.

Valley

propinquus Blake
~~paniculatus~~ ?

skin glandulosa

plex curvica.

1594 - Matricaria w/ large
flowers.

1595 ^{propinquus}
Hesperis - 24-30" ^{Blake}
w/ no rays.

1596 - *Euzoium* - annual
E. Davidsonii Greene

1597 - ann. Comp. w/ pink fls
legulate *Stephanomeria*

1598 - *Euzoium* perennial shrub
E. Wrightii var *membranaceum*

1599 - Comp. w/ yel. fls. gummy
+ strong smelling annual.

Jacumba - Valley

1600 *A. propinquus* Blake
~~*C. paniculatus* ?~~

1601 - *Purshia glandulosa*

1602 - *Atriplex canescens*.

Specimens Mounted
on Herb. sheets.

1312	1317	1388
1323	1320	1380
1319	139	1360
13-6	1321	1315
138	1313	1384
134-A	1311	1383
135	1469	1342
1384	1404	1347
1386	1397	1403
1399	1387	1374
1407	1391	1373
1406	1388	1378
1471	1402	1310
1485	1390	1337
1483	1318	1333
1484	1395	1336
1466	1410	1335
1468	1409	1332
1379	1401	0
1381	1394	1460
1316	1393	1482

Specimens Mounted
on Herb. sheets.

1312	1317	1388
1323	1320	1380
1319	139	1360
13-6	1321	1315
138	1313	1384
134-A	1311	1383
135	1469	1342
1384	1404	1347
1386	1397	1403
1399	1387	1374
1407	1391	1373
1406	1388	1378
1471	1402	1310
1485	1390	1337
1483	1318	1333
1484	1395	1336
1466	1410	1335
1468	1409	1332
1379	1401	0
1381	1394	1460
1316	1393	1482

1481	1341	1368
1470	1344	1361
1449	1329	1359
1478	1329	1357
1477	1346	1351
1471	1326	1356
1475	1327	1364
1474	1322	1339
1473	1360	1365
1472	1362	
1466	1358	
1408	13-0	
1467	131	
1375	1331	
1382	1363	
1385	1372	
1366	1325	
1345	1324	
1350	1369	
1354	1370	
1356	1371	
1353	1367	

1481	1341	1368
1470	1344	1361
1479	1329	1359
1478	1329	1357
1477	1346	1351
1477	1326	1356
1475	1327	1364
1474	1322	1339
1473	1360	1365
1472	1362	
1466	1358	
1408	13-0	
1467	131	
1375	1331	
1382	1363	
1385	1372	
1366	1325	
1345	1324	
1350	1369	
1354	1370	
1356	1371	
1353	1327	

San Diego R. below Dam 3/31/69

~~1603. Letharos.~~

1604. Baccharis

1605 Solonaceae with reverse
hairs - herb.

1606 - Tree tobacco

1607. E. fasciculatum

1608. Sambucus

1609. Poison oak

1612
1610 Willow

1611. Sycamore

1610
1612 C. L. Oak.

San Diego R. below Dam 3/31/69

~~1603. Latharus.~~

1604. Baccharis

1605 Solonaceae with reverse
hairs - herb.

1606 - Tree tobacco

1607. E. fasciculatum

1608. Sambucus

1609. Poison oak

1612
~~1610~~ Willow

1611 - Sycamore

1610
~~1612~~ C. L. Oak.

1613 - Snowberry

1614. *Montia*

Apr. 3/31/69

~~Sou. of El Cajon Greenfield Rd~~

~~1615~~ *Lamarckia*

Roadside adj. to perm. pasture

~~1616~~ *B. carinatus?*

1615 *Lamarckia*

1616 *B. carinatus*

1617 *B. mollis*

1618 *Festuca megalauria* annual.

1619 - *B. rubrum*

1620 ~~*Hordeum*~~

1621 *Amsinckia*

1622 - *Storksbill*

1613 - Snowberry

1614. Montia

Jan. 31/69

~~S. of El Cajon Greenfield Rd~~

~~1615~~ Lamarkia

Roadside adj. to perm. pasture

~~1616~~ B. corinatus?

1615 Lamarkia

1616 B. corinatus

1617 B. mollis

1618 Festuca megalauria annual.

1619 - B. rubrum

1620 Hordeum

1621 Amaranthia

1622 - Storksbill

Apr 2 1969.

Sheephead Road -

- 1623 Umbelifer. w/ yel fls + sharply serrulate lvs. Bright glossy green Tauschia arguta (Torr. & Gray) J.F.M^c Bride

1624 Peonia

Top of ridge overlooking Horse Canyon

- 1625 Cnidoscolus w/ pink fls.

1626 Ceanothus gregii

in flower.

6000 ft.

El Cajon Mt - Oak Ridge R. - Apr. 29 1969

1627 Composite - Malacothrix douglasii

1628 Silene galica (Introduced)

750
795
M

1629 - Sanicula - meadow - annual grass.

1630 - Physioballis

1631 - Orthocarpus

1632 Plantago

1633 Q. Engelmannii

Ried Moran.

Apr 29 1969 - EL CAJON Mtn.
600 m. - an. grass. woodland.

1627 Annual. Fls yellow.
Malacothrix Clevelandii
Gray.

1628. Annual - European
Silene gallica L.
Windmill Pink.

1629 *Sanicula*, red fls.
6-10" *S. bipinnatifida* Dougl.
Purple sanicle - grassy flats.
1630 *Plagiobothrys* - fls wh.

1631 *Orthocarpus*

1632 - *Plantago*, annual - $\frac{1}{2}$ " - 60"

1633 *Quercus Engelmannii*

1634 - *Juncus* - annual
Toad rush

Juncus bufonis L.

Bied Moran.

Apr 29 1969 - EL CAJON MTN.
600 M. - an. grass. woodland.

1627 Annual. Fls yellow.
Malacothrix Clevelandii
Gray.

1628. Annual - European
Silene gallica L.
Windmill Pink.

1629 *Sanicula*. red fls.
6-10" *S. bipinnatifida* Dougl.
Purple sanicle - grassy flats.

1630 *Plagiobothrys* - fls wh.

1631 *Orthocarpus*

1632 - *Plantago*. annual - 1/2" - 10"

1633 *Quercus Engelmannii*

1634 - *Juncus* - annual
Toad rush

Juncus bufonis L.

1635 - *Ceanothus leucodermis*

1636 *Paeonia californica*
NUTT. CALIF Peony.

1637. *Ribes* - large, tree like
at meadow edge with live oak

ON E. slope of El Cajon Mtn.

1638 *Rhamnus crocea* NUTT
Redberry.

1639 *Potentilla*

1640 *Lotus*

1641. *Pellaea mucronata* DC
Eaton. ROCK FERN TEA FERN

1642. *Arctostaphylos glauca*.

1635- *Ceanothus leucodermis*

1636 *Paeonia californica*
NUTT. CALIF Peony.

1637. *Ribes* - large, tree like
at meadow edge with live oaks

ON E. slope of El Cajon Mtn.

1638 *Rhamnus crocea* NUTT
Redberry.

1639 *Potentilla*

1640 *Lotus*

1641. *Pellaea mucronata* DC
Gaton. ROCK FERN TEA FERN

1642. *Arctostaphylos glauca*.

1643. *Lathyrus laetiflorus*
Greene. ssp. *Alefeldii*
(white) Bruds.

1644 - *Pollaea andromedaefolia* (Kaulf.) Fee
COFFEE FERN; in shelter of
granite boulders

1645 - *Sanicula Tauschia*
arguta (Nutt.) F. M. S. Bride
Chap. grassy bench. ca 2500'

1646. *Styrax officinalis* L.
var. *fulvescens* (Eastw.)

Munz & Johnston Snow-drop
bush. Bush - 3'-8', straggling
to rounded 1700-3000'; dry
benches, slopes, draws.

1647 - *Jepsonia Parryi*
(Torr.) Small. - Mesa
Saxifrage. fls - then lvs with
spr. rains. Vernal lvs;
autumnal scapes. fls white

1643. *Lathyrus lactiflorus*
Greene. ssp. *Alefeldii*
(white) Bruds.

1644 - *Pallaea andromedaefolia* (Kaulf.) Fee
COFFEE FERN; in shelter of
granite boulders

1645 - *Senicula Tauschia*
arguta (Nutt.) F. M. S. Bride
Chap. grassy bench. ca 2500'

1646. *Styrax officinalis* L.
var. *fulvescens* (Eastw.)

Munz & Johnston Snow-drop
bush. Bush - 3'-8', straggling
to rounded 1700-3000'; dry
benches, slopes, draws.

1647 - *Jepsonia Parryi*
(Torr.) Small. - Mesa

Saxifrage. fls - then lvs with
spr. rains. Vernal lvs;

autumnal scapes. fls white

1648 Pedicularis densiflora
Benth. Indian warrior. Chap.
3000'.

1649 Sanicula graeolens
Poep. Ex DC. Sierra
Sonicle. fls yellow. With.
Purple Sonicle. - 1700'-3000'

1650 Eriodictyon crassi-
folium Benth. YERBA
Blanco. Perennial. woolly leaf.

1651 - Ceanothus oliganthus
Nutt var. oreuttii (Parry)
Jepson. fls blue - 4'-10'+ high.
lvs. deep green. Hairy C.

1652 Cercocarpus
betuloides Nutt

1653 - Stipa coronata
Thurb. in wats.
3'-6' high, stout. perennial
bunch grass. chaparral

1654 - Arctostaphylos glauca
Lindl. Bigberry Manzanita
now-sprouting. 6'-10'. glabrous

1655 Xylococcus bicolor
Nutt. Coast Manzanita.
Shrub - "Mission Manz."

Dense - 4'-8' fls white-pink
bisexual

~~1656 Styrax officinalis
L. var fulvescens East.~~

1656. Haplopappus linerifolius
V.C. Mtn Goldenbush.

Shrub - 3'-4'. bright rayed
fls. Near 4 corners.

1657 Ribes ssp. Per.
shrub - loosely branched, with
oaks + chaparral borders.
El Cajon Mtn - 1700'

1654 - Arctostaphylos glauca
Lindl. Bigberry Manzanita
now-sprouting. 6'-10'. glabrous

1655 Xylococcus bicolor
Nutt. COAST Manzanita.
Shrub - "Mission Manz."

Dense - 4'-8' fls white-pink
bisexual

~~1656. Styrax officinalis
L. var fulvescens East.~~

1656. Haplopappus linerifolius
D.C. Mtn Goldenbush.

Shrub - 3'-4'. bright rayed
fls. Near 4 corners.

1657 Ribes ssp. Per.
shrub - loosely branched, with
oaks + chaparral borders.
El Cajon Mtn - 1700'

~~4/31/69~~ 4/31/69 KITCHEN CR.

1657. Ceanothus greggii
Gray var. perplexans
(Trel.) Jepson.

~~1658~~ Leguna alter. Navy Radar Sta.

1658 Pinus quadrifolia
Parl. ex Sudw. [P. Parryana

Engelm]

1659

4/1/69 - Pine Valley

Arctostaphylos pungens HBK.

Mexican manzanita.

erect, spreading - 4'-10' high.

San Jacinto Ranch, Buena Va

May 4, 1969

1660 - Eriophyllum confertiflorum.

1661 - Trachostema

1662 - Salvia clevelandii

~~4/3/69~~ 4/3/69 KITCHEN CR.

1657. Conotbus greggii
Gray var. perplexans
(Trel.) Jepson.

~~1658~~ Laguna Alt. Navy Radar Sta.

1658 Pinus quadrifolia
Parl. ex Sudw. [P. Parryana

Engelm.]

1659

4/1/69 - Pine Valley

Arctostaphylos pungens HBK.

Mexican Menzanite.

erect, spreading - 4'-10' high.

San Vicente Ranch - Bonona Va

May 4, 1969

1660 - Eriophyllum confertifolium.

1661 - Trichostema

1662 - Salvia Clevelandii

5/4/69 - 1663

Plagiotrochus

1664 *Orthocarpus*

1665 - *Castilleja*

1666 - *Salvia* (Chia)

(1655 - recollect *Xylococcus*)

~
creek)

1667 - *Bonania mollis*

1668 - *B. rigida*

Creek 1669 - *Baccharis*

1670 - *Marrubium*

~~Meadow~~ - ~~San Vincente Ranch~~

~~to~~

Meadow - San Vincente Ranch

1671 - *Orthocarpus* - winged

petals - violet + white

5/4/69 - 1663

Plagiotropis

1664 *Orthocarpus*

1665 - *Castilleja*

1666 - *Salvia* (Chia)

(1655 - recollect *Xylocarpus*)

~ creek)

1667 - *Bonania mollis*

1668 - *B. rigida*

Creek 1669 - *Baccharis*

1670 - *Marrubium*

~~Meadow~~ - San Vincente Ranch

16

~~Meadow~~ - San Vincente Ranch

1671 - *Orthocarpus* - winged

petals - violet + white

5-4-69. Entrance to Barona Reservoir ^{N.}

1672 - ~~Chopwood~~ Pea Yellow Penstemon
Penstemon antirrhinoides Benth
1673 Mimulus w/ salmon yell
flowers

1674 - Lakeview - hillsides at
Lake Jennings

1674 - Hypochaeris Viguiera
lacinata GRAY, San Diego Sunflower

1675a. Mimulus with red
fls - study. / 1675 - Pimpernell

Dehesa 5/11/69.

1676A Tricholacena rosea
Nees - Natal Grass, annual
Escape (So. Africa)

1677 - Cneoridium dumosum
(NUTT) Hooker Berr-y-rue.

Dehesa - Japotal Rd - Chop. - grass

1678

Mimulus annual -

1679 - Larix

N.
5-4-69. Entrance to Barona Reservation

1672 - ~~Chaparral Pen~~ Yellow Penstemon
Penstemon antirrhinoides Benth
1673 Mimulus w/ salmon yell
flowers

1674 - Lakeview - hillsides at
Lake Jennings

1674 - Hesperis Viguiera
lacinata GRAY. San Diego Sunflower

1675a. Mimulus with red
fls - study. / 1675 - Pimpernell

Dehesa 5/11/69.

1676A Tricholaena rosea
Nees - Natal Grass, annual
Escape (So. Africa)

1677 - Cneoridium dumosum
(NUTT) Hooker Berr-y-rue.

Dehesa - Japatul Rd - Chap. - grass

1678

Mimulus annual -

1679 - Larrea

1680 Scroph. fls red-
irregular - pistil curled down with
one lobe of pl. 4 stamens, one
attached to corolla + stam
stems syzygous. Taproot -
annual -

MUNZ P126
1681 - Bush Mallow

1682 - yell. shrub. ^{RUSH ROSE} Helianthemum
scoparium NUTT. var Aldersonii (Greene)
1683. Prunus _{MUNZ}

1684 E. laeviflorum.

Ochrosia Summt.

1685 - Pimpernel

1686 - Castilleja foliosa

1687 - Oenothera annua

1688 - Chorizanthe ssp.

1680 Scroph. fls red-
irregular - pistil curled down with
one lobe of fl. 4 stamens, one
attached to corolla + stam
stem square. Taproot -
annual -

MUNZ P 126
1681 - Bush Mallow

1682 - yell. shut. ^{RUSH ROSE} Helianthemum
Scoparium Nutt. var Aldersonii (Greene)
MUNZ

1683. Prunus

1684 E. *Convolvulaceae* flower.

Duchesnea Summt.

1685 - Pimpernel

1686 - *Castilleja foliosa*

1687 - *Oenothera annua*

1688 - *Chorizanthe* ssp.

ORIGAN VALLEY - (Black Mtn) 5/13/69

1689 - Clematis lasiantha
NUTT. Pipestem Clematis

1690 - P. uncinata -

1690 - Gilia - yellow annual

1691 - Grass - Glycena?

1692 Koeleria?

1693 - Large shrub (tree)
with hazel like fls + bright
purple tubular fls.

Eriodictyon crassifolium
Benth. Thickleaf Yerba
Santa.

ORGAN VALLEY - (Black Mtn) 5/13/69

1689 - *Clematis lasiantha*
NUTT. Pipestem clematis

1690 - *Peummin* -

1690 - *Gilia* - yellow annual

1691 - Grass - *Glyceria*?

1692 *Koeleria*?

1693 - Large shrub (tree)
with hazel like lvs + light
purple tubular fls.

Eriodictyon crassifolium
Benth. Thickleaf Yerba
Santa.

El Cajon - 5-15-69

1694. Rose clover - annual

1695 - Lana vetch - annual

1696 - Erigeron Senecio
Douglasii DC

1696(a) Melic perennial
Viejas grade. no buds

9/20/69 - Baja.

1697 - E. Davidsonii

Elev 900 m - S.E. Tecate

1698 - E. elongatum

El. 900 m. Los Juntas - SE Tecate

1699. Artemisia trancucula

Rancho Hechiceros 2 mi So

1200 m.

1700 E. Daneshii

2 1/2 mi So Chupadero

J.R. artemisia trichoptera

San Faustino 1250 m.

1701 *Ipomoea tenuifolia*

1702 western Ray weed
ambrosia

Baja - 1 mi So. Rancho San
Faustino - 4-20-69

3 mi So. San Faustino - 1300 m

1703 *E. Wrightii*

solid (pure) stand in shallow
basin - J.P. - Atr. amcto.

1704 *Eriogonum*

annual, 4 mi W. of El Rio
1450 m.

1705 - *C. n. con.*

Serrill (El Rayo)

1600 m.

1706 - *Bouteloua*

Rock - 5 mi N. 1705

1701 *Ipomoea tenuifolia*

1702 western Ray weed
ambrosia

Boya - 1 mi So. Rancho San
Faustina - 9-20-69

3 mi So. San Faustina - 1300 m

1703 *E. Wrightii*

solid (pure) stand in shallow
basin - J.P. - Atr. arcto.

1704 *Eriogonum*

annual, 4 mi W. of El Rio
1450 m.

1705 - *C. n. con.*

Sunnill (El Rayo)

1600 m.

1706 - *Bouteloua*

Rock - 5 mi N. 1705

C. paniculatus - Utah.

C. albidus Nev.

C. greenei Ariz

C. pulchellus Kans.

C. vaseyi UTAH.

C. linifolius UTAH.

C. depressus Utah

C. P. attenuatus. - Utah

C. P. nevadensis - Nev.

C. P. latior Calif.

C. P. howardii Utah.

C. P. parryi Colo.

C. n. *bigelovi* Ariz.

C. n. *nauseosus* Wyo.

C. n. salicifolius Utah.

C. P. attenuatus. - Utah

C. P. nevadensis - Nev.

C. P. latior Calif.

C. P. howardii Utah.

C. p. parryi Colo.

C. n. *bigelovi* Ariz.

C. n. *nauseosus* Wyo.

C. n. salicifolius Utah.

C. v. lanceolatus - Utah.

C. v. humilis Idaho.

C. v. elegans Nev.

2

C. v. lanceolatus - Utah.

C. v. humilis Idaho.

C. v. elegans Nev.

2

5