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FLORA

—OF—

Southern and Lower California.



A CHECK-LIST

—OF THE—

FLOWERING PLANTS AND FERNS,

—BY—

CHARLES RUSSELL ORCUTT.



SAN DIEGO, California, U. S. A.
1885.

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Washingtonia filifera, (Cal. Fan Palm.)

Lower California **Date Palm.**

Date Palm of commerce.

Cuttings of the California Grape, (*Vitis Californica*), for budding.

J. H. ORCUTT,

San Diego, California.

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Bel. Ave. 1912
26200

FLORA

—OF—

Southern and Lower California.



PREFACE.

This list includes all the Phænogamous plants and higher Cryptogams known in San Diego county and the adjacent borders of Lower California, and mainly collected by H. C. Orcutt and myself during the last few years. Plants limited in distribution to the northern part of the county are indicated by N; to the southern portion, by S; to Lower California, by L; to N and S, by D; those common to D and L, by G; and to S and L, by F. Saline plants, s; mesas and coast region, c; mountains (above 4,000 feet), m; intermediate hills and valleys, h; desert, d. Introduced or naturalized species are given in italics. Plants blooming during early rains are shown by 1; later rains, 2; summer, 3; fall, 4; throughout the year 5. Species not collected by us are indicated by the *. Color of some is indicated by w for white; r, red; y, yellow; g, green; b, blue or purple. This list has been prepared by reason of many requests of those who appreciate the value of a check-list, and the necessarily incomplete notes will in many cases prove of value, I trust, to the student of our rich and beautiful flora.

CHARLES RUSSELL ORCUTT.

FLORA OF SOUTHERN AND LOWER CALIFORNIA.

Ranunculaceæ.

Clematis pauciflora, Nutt.	G c
ligusticifolia, Nutt.	G m
Thalictrum polycarpum, Watson.	G 5
Myosurus minimus, L.	G 2
aristatus, Benth.	D 2
Ranunculus Cymbalaria, Pursh.	N
aquatilis, L., v. trichophyllus, Ch.	G 2
cæspitosus, DC.	L m 5
Californicus, Benth. Buttercup.	G m
hebecarpus, Hook. & Arn., var. pusillus, Brewer.	F h
Aquilegia truncata, F. & M.	G m
Delphinium simplex, Dougl.	G m
decorum, F. & M. Blue larkspur.	G c
cardinale, Hook.	G m
Pæonia Brownii, Dougl.	G h
*Crossosoma Bigelovii, Watson.	D d
Berberidaceæ. <i>Barberry.</i>	
Berberis Fremonti, Torr.	L m 3
*pinnata, Lag.	S h
Papaveraceæ. <i>Poppy.</i>	
Platystemon Californicus, Benth.	G
Romneya Coulteri, Harv.	F h
Argemone hispida, Gray. Thistle poppy	G
Meconopsis heterophylla, Benth.	G
Dendromecon rigidum, Bth. Tree p.	G m
Eschscholtzia Californica, Cham.	G
peninsularis, Greene, <i>new.</i>	L
minutiflora, Watson.	G d
Fumariaceæ.	
Dicentra chrysantha, H. & A.	G h
Cruciferae.	
Alyssum maritimum, L. Sweet A.	G c
Draba cuneifolia, Nutt.	D c
Cardamine paucisecta, Bth. Water cress.	G m
Arabis perfoliata, Lam.	G m
*longirostris, Watson.	D d
Streptanthus heterophyllus, Nutt.	F c
Caulanthus glandulosus, Hook., var. (?) lævis, Watson.	L m
Thelypodium Wrightii, Gray.	L m
Stanleya *pinnatifida, Nutt.	D d
Erysimum asperum, DC.	G
Brassica nigra, Koch. Black mustard.	G
alba, Gray. White mustard.	G
campestris, L. Turnip (wild.)	G
Sisymbrium canescens, Nutt.	G
incisum, Engelm.	L m
var. filipes, Gray.	L m
reflexum, Nutt.	F c
officinale, Scop.	D
Nasturtium officinale, R. Br.	N h
curvisiliqua, Nutt., v. lyratum, W.	G
Vesicaria Fendleri, Gray, var.	L m
Subularia aquatica, L.	G m
Tropidocarpum gracile, Hook.	G c
Lyrocarpa Palmeri, Watson.	L d
Capsella divaricata, Walp.	S c
Bursa-pastoris, Mench.	G
Lepidium latipes, Hook. Pepper-grasses:	
dictyotum, Gray.	G c
nitidum, Nutt.	G c
Menziesii, DC.	G c

lasiocarpum, Nutt., var. tenuipes, Watson.	L m
intermedium, Gray.	G c
Thysanocarpus curvipes, Hook.	G h
laciniatus, Nutt.	D h
pusillus, Hook.	G h
Biscutella *Californica, B. & H.	D d
Raphanus sativus, L.	G
Capparidaceæ.	
Cleome integrifolia, Nutt.	S h
Isomeris arborea, Nutt.	G
Resedaceæ.	
Oligomeris subulata, Boiss.	G c
Cistaceæ.	
Helianthemum scoparium, Nutt.	G
Violaceæ.	
Viola aurea, Kellogg?	G m
chrysantha, Hook.	G m
pedunculata, T. & G.	G c h
Polygalaceæ.	
Polygala Californica, Nutt.	L c
Krameria *parvifolia, Benth.	G d
canescens, Gray.	G d
Frankeniaceæ.	
Frankenia Palmeri, Watson.	S s 2
grandifolia, C. & S.	G 5
Caryophyllaceæ.	
Silene Gallica, L. Catch-fly.	G
antirrhina, L.	G c
Californica, Dur.	G h
laciniata, Cav.	G h
*Palmeri, Watson.	D m
platyota, Watson.	G m
Cerastium nutans, Raf.	G m
viscosum, L.	G h
Stellaria media, L.	G c
Arenaria alsinoides, Willd.	L m
Douglasii, T. & G.	G
*macradenia, Watson.	D m
macrophylla, Hook.	S m
Saponaria Vuccaria, L.	S c
Lepigonum macrothecum, F. & M.	G s
medium, Fries.	G s
gracile, Watson.	S c
Polycarpon depressum, Nutt.	G c
Læfingia squarrosa, Nutt.	G h
Illecebraceæ.	
Pentacæna ramosissima, H. & A.	G
Achyronychia *Cooperi, T. & G.	D d
Portulacaceæ.	
Portulaca oleracea, L. Purslane.	
Calandrinia Menziesii, Hook.	G c
maritima, Nutt.	F c
Claytonia perfoliata, Don.	G h
Calyptridium monandrum, Nutt.	G
Tamariscinæ. <i>Candlewood.</i>	
Fouquieria splendens, Engelm.	F d
Elatinaceæ.	
Elatine brachysperma, Gray.	S c

Hypericaceæ.
Hypericum Scouleri, Hook. G m
**anagaloides*, C. & S. N m

Malvaceæ.
Malva borealis, Wallm. G
Sidalcea humilis, Gray. G 5
malvæiflora, Gray. G
Malvastrum exile, Gray. S c
Thurberi, Gray. G h
**densiflorum*, Watson. D d
**rotundifolium*, Gray. D d
foliosum, Watson, *new*. L
Sphæralcea Emoryi, Torr. G
Sida hederacea, Torr. G
Abutilon crispum, Don. L d
Newberryi, Watson. L d
Streetsii, Watson. L h
aurantiacum, Watson. L h
Hibiscus denudatus, Benth. F d

Sterculiaceæ.
*Ayenia *pusilla*, L. D h
Fremontia Californica, Torr. G h

Linaceæ. Flax.
Linum perenne, L. G m

Zygophyllaceæ.
Fagonia Californica, Benth. G h
Larrea Mexicana, Moric. N d

Geraniaceæ.
Geranium Carolinianum, L. G h
cæspitosum, James. L m
Erodium Texanum, Gray. S c
cicutarium, L'Her. Alfilaria.
moschatum, L'Her. "
macrophyllum, H. & A. G h
*Limnanthes *Douglasii*, R. Br. N m
Oxalis corniculata, L. G c
Wrightii, Gray. L h

Rutaceæ. Spice shrubs.
Ptelea aptera, Parry. L h
Thamnosma montanum, Torr. G d
Cneoridium dumosum, Hook. f. G h

Celastraceæ.
Euonymus occidentalis, Nutt. N m

Rhamnaceæ.
Zizyphus Parryi, Torr. D d
lycioides, var. *canescens*, Gray. G d
Rhamnus crocea, Nutt. G
Californica, Esch. Wild coffee G m
** var. tomentella*, B. & W. D m
*Condalia *spathulata*, Gray. D d
Adolphia Californica, Watson. G c
Ceanothus cuneatus, Nutt. G c
sorediatus, H. & A. Wild lilac. G h
integerrimus, H. & A. Soap-bush. G h
divaricatus, Nutt. G m
**rigidus*, Nutt. D h

Vitaceæ. Grape.
Vitis Californica, Benth. G h

Sapindaceæ.
Æsculus Parryi, Gray. Buckeye. L c
Acer macrophyllum, Pursh. N m

Anacardiaceæ. Sumacs.
Rhus ovata, Watson, *new*. G m
integrifolia, Nutt. G c
laurina, Nutt. G c
diversiloba, T. & G. Poison oak. G
aromatica, Ait., v. *trilobata*, Gr. D m
var. indivisa, Watson. L m

Leguminosæ. Lupine Family.
Thermopsis Californica, Watson. D m
*Hoffmanseggia *stricta*, Benth. D d
**microphylla*, Torr. D d
Lupinus densiflorus, Benth. G
Chamissonis, Esch. S m
affinis, Agardh. G h
micranthus, Dougl. G
sparsiflorus, Benth. G
truncatus, Nutt. G c
hirsutissimus, Benth. G c
gracilis, Agardh. G h
Orcuttii, Watson. L m
**Arizonaicus*, Watson. D d
brevicaulis, Watson. D d
albicaulis, Dougl. G?
littoralis, Dougl. G?
Douglasii, Agardh. G?
Trifolium Macræi, H. & A. Clovers: G h
ciliatum, Nutt. G h
monanthum, Gray. G
microcephalum, Pursh.
fucatum, Lindl.
gracilentum, T. & G.
involutratum, Willd.
tridentatum, Lindl.
var. obtusiflorum, Watson.
Melilotus alba, Lam. Sweet clover. G m
parviflora, Desf. G h
Medicago sativa, L. Alfalfa.
denticulata, Willd. Burr clover.
lupulina, L. G
Psoralea Californica, Watson. G m
orbicularis, Lindl. L m
macrostachya, DC. G h
Amorpha Californica, Nutt. G
Glycyrrhiza lepidota, Pursh. N
Hosackia rigida, Benth. L m
rigida, var. *argyrea*, Watson. L m
oblongifolia, Benth. G
maritima, Nutt. S h
strigosa, Nutt. S h
Purshiana, Benth. G
glabra, Torr. G h
prostrata, Nutt. G h
micrantha, Nutt. G c
argophylla, Gray. G m
Heermanni, D. & H. G h
**crassifolia*, Benth. D h
**grandiflora*, Benth. N m
**brachycarpa*, Benth. D d
**decumbens*, Benth. N
*Dalea *mollis*, Benth. D d
**Emoryi*, Gray. D d
Californica, Watson. N d
**Schottii*, Torr. N d
**spinosa*, Gray. G d
Orcuttii, Watson, *new*. L m
**Parryi*, T. & G. D d
Astragalus oocarpus, Gray. G
didymocarpus, H. & A. G
dispergus, Gray. G

- *Vaseyi, Watson. G d
leucopsis, T. & G. Rattle-weed. G d
*Coulteri, Benth. D d
Sonoræ, Gray. L m
stenophyllus, T. & G. L m
Orcuttianus, Watson ined. L d
*tricarlinatus, Gray. D d
Crotalaria, Gray. D h
*Parishii, Gray. N m
*Preusii, Gray. D d
Olneya Tesota, Gray. Iron-wood. G d
Vicia exigua, Nutt. Vetch. G c
Cassia Covesii, Gray. G c
Lathyrus venosus, Muhl. G c
splendens, Kellogg. Wild pea. F h
Parkinsonia *Torreyana, Watson. D d
Prosopis juliflora, DC. Mesquit. G
pubescens, Benth. Screw bean. G
Acacia Greggii, Gray. G
- Rosaceæ.**
Prunus *Fremonti, Watson. G d
demissa, Walp. Choke cherry. D m
ilicifolia, Walp. Oak-leaf cherry. G
*fasciculata, Gray. D d
Rubus Nutkanus, Moc. D m
ursinus, C. & S. Dewberry. G
Chamæbatia foliolosa, Benth. G h
Purshia tridentata, DC. D d
Cercocarpus parvifolius, Nutt. G h
Fragaria Californica, C. & S. Straw'by. D m
Potentilla rivalis, Nutt., var. mille-
grana, Watson. G m
Horkelia Californica, C. & S. D m
Cal., var. paucifoliata, Watson. L h
*Bolanderi, Gray, v. Parryi, Wats. D m
Ivesia Baileyi, Watson. L m
Adenostoma sparsifolium, Torr. G m
fasciculatum, H. & A. Grease-wood. G
Rosa Californica, C. & S. Wild rose. G 5
minutifolia, Eng. Parry's rose. L c
Heteromeles arbutifolia, Rœm. G
Alchemilla arvensis, Scop. S h
- Saxifragaceæ.**
Saxifraga Parryi, Torr. Wild cocoanut.
reflexa, Hook. D h
Tellima Cymbalaria, Walp. D h
Heuchera rubescens, Torr. G m
Ribes speciosum, Pursh. S c
Menziesii, Pursh. S h
viscosissimum, Pursh. N m
sanguineum, Pursh. G
viburnifolium, Gray. L c
- Crassulaceæ.**
Sedum variegatum, Watson. F h
Tillæa minima, Miers. G c
angustifolia, Nutt. S c
Cotyledon edulis, Brewer. G
pulverulenta, B. & H. G
lanceolata, B. & H. G h
- Lythraceæ.**
Ammannia latifolia, L. S c
Lythrum Hyssopifolia, L. S c
alatum, Ph., var. linearifolium, Gr. G
- Onagraceæ.**
Epilobium angustifolium, L. N m
coloratum, Muhl. G
Zauschneria Californica, Presl. G
- Ludwigia palustris, Ell. S c
Clarkia elegans, Lindl. N h
rhomboidea, Dougl. L m
Gayophytum ramosissimum, T. & G. G
Eulobus Californicus, Nutt. G c
Eriogonum Californicum, Watson. G
*trichocalyx, Nutt. D d
strigulosa, T. & G. G m
cheiranthifolia, Horn. G s
gauræflora, T. & G. N d
*brevipes, Gray. D d
*cardiophylla, Torr. D d
refracta, Watson. D d
bistorta, Nutt., var. (?) Veitchi-
ana, Hook. G h
biennis, L. G h
Godetia epilobioides, Watson. w G h
tenella, Watson. r G h
Boisduvalia densiflora, Watson. G
- Loasaceæ.**
Petalonyx *Thurberi, Gray. D d
Mentzelia albicaulis, Dougl. G m
gracilenta, T. & G. G h
*lævicaulis, T. & G. D d
*tricuspidis, Gray. D d
micrantha, T. & G. L h
- Cucurbitaceæ.**
Megarrhiza Californica, Torr. Chilocothe G
Cucurbita perennis, Gray. G
palmata, Watson. Mock orange. G
*Californica, Torr. D d
- Datisacaceæ.**
Datisca glomerata, B. & H. G h
- Cactaceæ. Cacti.**
Mamillaria Goodridgii, Scheer. G c
*phellosperma, Engelm. D d
Echinocactus viridescens, Nutt. G c
Orcuttii, Engelm. ined. L h
cylindraceus, Engelm. d
Wislizeni, Engelm. N d
Cereus phoeniceus, var. Pacificus,
Engelm. ined. L c
maritimus, Jones. L c
guminosus, Engelm. ined. Pitalla. L c
Engelmanni, Parry. G m
Emoryi, Engelm. G c
Opuntia occidentalis, E. Prickly pear. G
prolifera, Engelm. Chollas. G h
serpentina, Engelm. G h
Bigelovii, Engelm. G d
- Ficoideæ.**
Sesuvium Portulacastrum, L. G
Mesembrianthemum nodiflorum, L.
æquilaterale, Haw. Beach berry. s
crystallinum, L. Ice plant. G s
- Umbelliferæ.**
Hydrocotyle prolifera, Kellogg. G h
ranunculoides, L. f. S h
Bowlesia lobata, R. & P. G h
Eryngium petiolatum, Hook. S c
Deweya arguta, T. & G. G m
Carum Gairdneri, B. & H. N m
Eriogonum Californicum, Watson. G h
Daucus pusillus, Michx. G h
Sanicula Menziesii, H. & A. S h
bipinnatifida, Dougl. G h

<i>laciniata</i> , H. & A.	G h	<i>*Philadelphicus</i> , L.	N h
<i>Apium graveolens</i> , L.	S	<i>Baccharis Douglasii</i> , DC.	G h
<i>Apiastrum angustifolium</i> , Nutt.	G h	<i>glutinosa</i> , Pers.	G
<i>Selinum *capitellatum</i> , B. & H.	D m	<i>Emoryi</i> , Gray.	G h
<i>Angelica tomentosa</i> , Watson.	G m	<i>sarothroides</i> , Gray.	G h
<i>Caucalis microcarpa</i> , H. & A.	G	<i>Pluchea camphorata</i> , DC.	N h
<i>Peucedanum dasycarpum</i> , T. & G.	G	<i>borealis</i> , Gray. Mock willow.	G
<i>Euryptera</i> , Gray.	D c	<i>Micropus Californicus</i> , F. & M.	G h
Cornaceæ.		<i>Psilocarphus Oregonus</i> , Nutt.	S c
<i>Cornus Californica</i> , C. A. Meyer.	N m	<i>tenellus</i> , Nutt.	S c
<i>Garrya flavescens</i> , var. <i>Palmeri</i> , Wat.	F m	<i>Stylocline gnaphalioides</i> , Nutt.	S c
Caprifoliaceæ.		<i>Evax caulescens</i> , Gray.	D c
<i>Sambucus glauca</i> , Nutt. Elder.		<i>Filago Arizonica</i> , Gray.	L m
<i>Symphoricarpos mollis</i> , Nutt.	S m	<i>Gnaphalium Sprengelii</i> , H. & A.	G
<i>racemosus</i> , Michx. Snowdrop.	S m	<i>palustre</i> , Nutt.	G
<i>Ionicera hispidula</i> , Dougl., var. sub- <i>spicata</i> , Gray.	G	<i>purpureum</i> , L.	G
Rubiaceæ.		<i>Iva Hayesiana</i> , Gray.	G
<i>Kelloggia *galioides</i> , Torr.	D m	<i>Hymenoclea *Salsola</i> , T. & G.	S d
<i>Galium Andrewsii</i> , Gray.	G m	<i>monogyra</i> , T. & G.	G h
<i>Rothrockii</i> , Gray.	L m	<i>Ambrosia pumila</i> , Gray.	G c
<i>angustifolium</i> , Nutt.	G m	<i>psilostachya</i> , DC. Ragweed.	G
<i>stellatum</i> , Kellogg.	L m	<i>Franseria *dumosa</i> , Gray.	S d
<i>pubens</i> , Gray.	G h	<i>Hookeriana</i> , Nutt.	G
<i>Aparine</i> , L., var. <i>Vaillantii</i> , Koch.	G c	<i>bipinnatifida</i> , Nutt.	G s
Valerianaceæ.		<i>deltoides</i> , Torr.	G c
<i>Valerianella macrocera</i> , Gray.	G h	<i>flexuosa</i> , Gray, <i>new.</i>	L d
Compositæ.		<i>Xanthium strumarium</i> , L. Cocklebur.	G m
<i>Hofmeisteria *pluriseta</i> , Gray.	D d	<i>Wyethia coriacea</i> , Gray.	G c
<i>Brickellia Californica</i> , Gray.	G	<i>Encelia Californica</i> , Nutt.	G c
<i>frutescens</i> , Gray.	G d	<i>farinosa</i> , Gray.	N h
<i>atractylodes</i> , Gray.	L d	<i>viscida</i> , Gray.	G m
<i>Carphephorus junceus</i> , Benth.	G	<i>*eriocephala</i> , Gray.	D d
<i>Gutierrezia Californica</i> , T. & G.	G m	<i>Helianthus dealbatus</i> , Gray.	L c
<i>Euthamia</i> , T. & G.	G h	<i>gracilentus</i> , Gray.	F h
<i>Grindelia robusta</i> , Nutt.	G h	<i>Californicus</i> , DC.	F
<i>Pentachæta aurea</i> , Nutt.	G	<i>petiolaris</i> , Nutt.	G
<i>Eremiastrium *bellioides</i> , Gray.	D d	<i>Viguiera laciniata</i> , Gray.	G
<i>Lessingia glandulosa</i> , Gray.	S h	<i>Parishii</i> , Greene.	L m
<i>Monoptilon *bellidiforme</i> , T. & G.	D d	<i>Leptosyne Douglasii</i> , DC.	G c
<i>Heterotheca grandiflora</i> , Nutt.	G	<i>maritima</i> , Gray.	G s
<i>Chrysopsis villosa</i> , Nutt., var. <i>sessili-</i> <i>flora</i> , Gray.	G	<i>*Bigelovii</i> , Gray.	D d
<i>Aplopappus squarrosus</i> , H. & A.	G h	<i>Bidens chrysanthemoides</i> , Michx.	G? m
<i>linearifolius</i> , DC.	G m	<i>pilosa</i> , L.	L
<i>Palmeri</i> , Gray.	G h	<i>Madia elegans</i> , Don.	G h
<i>Berberidis</i> , Gray.	L c	<i>filipes</i> , Gray.	G h
<i>Orcuttii</i> , Gray, <i>new.</i>	L	<i>*glomerata</i> , Hook.	D h
<i>Bigelovia Menziesii</i> , Gray.	G	<i>Hemizonia *paniculata</i> , Gray.	D m
<i>spathulata</i> , Gray.	G m	<i>fasciculata</i> , T. & G.	G h
<i>brachylepis</i> , Gray.	L m	<i>tenella</i> , Gray.	G h
<i>graveolens</i> , Gray.	G m	<i>Wrightii</i> , Gray.	L
<i>teretifolia</i> , Gray.	D d	<i>floribunda</i> , Gray.	G
<i>*paniculata</i> , Gray.	D d	<i>Layia glandulosa</i> , H. & A.	G m
<i>Solidago Californica</i> , Nutt.	G h	<i>elegans</i> , T. & G.	G c
<i>*confinis</i> , Gray.	S h	<i>*platyglossa</i> , Gray.	N h
<i>Corethrogyne filaginifolia</i> , Nutt.	G	<i>Jaumea carnosa</i> , Gray.	G s
<i>Aster Andersoni</i> , Gray.	D m	<i>Baeria *Clevelandi</i> , Gray.	S c?
<i>exilis</i> , L.	G m	<i>gracilis</i> , Gray.	G
<i>spinosus</i> , Benth.	G	<i>var. tenerimus</i> , Gray.	S h
<i>*parviflorus</i> , Gray.	D d	<i>mutica</i> , Gray.	G s
<i>Erigeron incomptus</i> , Gray, <i>new.</i>	L h	<i>Eriophyllum Wallacei</i> , Gray.	G m
<i>foliosus</i> , Nutt.	S	<i>confertiflorum</i> , Gray.	G
<i>var. tenuissimus</i> , Gray.	S h	<i>*ambiguum</i> , Gray.	D d
<i>var. stenophyllum</i> , Gray.	L m	<i>Lasthenia glabrata</i> , Lindl.	G
<i>Canadensis</i> , L.	G	<i>Baileya pauciradiata</i> , H. & G.	D d
		<i>multiradiata</i> , H. & G.	L
		<i>Burriella *microglossa</i> , DC.	D d
		<i>Amblyopappus pusillus</i> , H. & A.	G
		<i>Hulsea Californica</i> , T. & G.	G m
		<i>*vestita</i> , Gray.	D m
		<i>Palafoxia *linearis</i> , Lag.	D d

<i>Chaenactis</i> *carphoclinia, Gray.	D d	<i>specularioides</i> , Nutt.	S h
<i>artemisiæfolia</i> , Gray.	G h	<i>Specularia biflora</i> , Gray.	G h
<i>tenuifolia</i> , Nutt.	G	* <i>perfoliata</i> , A. DC.	D h
<i>Parishii</i> , Gray, <i>new</i> .	G m	Ericaceæ.	
* <i>Fremonti</i> , Gray.	D d	<i>Arctostaphylos glauca</i> , Lindl.	G m
* <i>suffrutescens</i> , Gray.	D d	<i>tomentosa</i> , Dougl.	G m
<i>Helenium puberulum</i> , DC.	G m	<i>bicolor</i> , Gray.	G h
* <i>Bigelovii</i> , Gray.	S m	<i>pungens</i> , HBK. <i>Manzanita</i> .	G m
<i>Hymenopappus filifolius</i> , Hook.	G m	<i>oppositifolia</i> , Parry.	L h
<i>Hymenothrix Wrightii</i> , Gray.	L m	<i>arguta</i> , Zucc., var. <i>diversifolia</i> ,	
<i>Syntrichopappus Fremonti</i> , Gray.	D d	Parry.	G h
<i>Dysodia</i> * <i>Cooperi</i> , Gray.	D d	<i>Rhododendron occidentale</i> , Gray.	D m
<i>porophylloides</i> , Gray.	G d	<i>Pyrola aphylla</i> , Smith.	D m
<i>Trichoptilium</i> * <i>incisum</i> , Gray.	D d	<i>Pterospera</i> * <i>andromedea</i> , Nutt.	N m
<i>Perityle microglossa</i> , Benth.	G h	Plumbaginaceæ.	
<i>Californica</i> , Bth., var. <i>nuda</i> , Gr.	L d	<i>Statice Limonium</i> , L. <i>Marsh rosemary</i> .	G s
<i>Porophyllum gracile</i> , Benth.	G	Lennoaceæ.	
<i>Achillea Millefolium</i> , L.	G	<i>Pholisma arenarium</i> , Nutt.	G
<i>Anthemis</i> <i>Cotula</i> , L. <i>May weed</i> .	G	Primulaceæ.	
<i>Artemisia tridentata</i> , Nutt.	G	<i>Dodecatheon Meadia</i> , L.	G
<i>Californica</i> , Less. <i>Southernwood</i> .		<i>Anagallis arvensis</i> , L. <i>Barometer</i> .	G
<i>Ludoviciana</i> , Nutt.	G h	<i>Samolus Valerandi</i> , L., var. <i>America</i> , Gr.	G
<i>dracunculoides</i> , Pursh.	G h	<i>Centunculus minimus</i> , L.	S c
<i>Cotula coronopifolia</i> , L.	G	Styracaceæ.	
<i>Soliva sessilis</i> , R. & P.	S c	<i>Styrax Californica</i> , Torr.	N h
<i>Tetradymia comosa</i> , Gray.	G m	Oleaceæ.	
<i>Peucephyllum</i> * <i>Schottii</i> , Gray.	D d	<i>Menodora scabra</i> , Gray.	G d
<i>Psathyrotes ramosissima</i> , Gray.	D d	<i>scoparia</i> , Engelm.	G m
<i>Senecio sylvaticus</i> , L.	G c	<i>Fraxinus dipetala</i> , H. & A. <i>Flow'g ash</i> .	L h
<i>Douglasii</i> , DC.	G h	Apocynaceæ. <i>Indian Hemp.</i>	
<i>Californicus</i> , DC.	G h	<i>Apocynum cannabinum</i> , L.	G
<i>Cnicus occidentalis</i> , Gray. <i>Thistle</i> .	G c	Asclepiadaceæ. <i>Milkweeds.</i>	
<i>Californicus</i> , Gray.	G	<i>Asclepias subulata</i> , Decsne. <i>Jumete</i> .	L h
<i>Drummondii</i> , v. <i>acaulescens</i> , Gr.	L m	<i>eriocarpa</i> , Benth.	G m
<i>Silybum Marianum</i> , Gærtn.	G	<i>erosa</i> , Torr.	L m
<i>Centaurea solstitialis</i> , L.	G	<i>Mexicana</i> , Cav.	G h 5
<i>Perezia microcephala</i> , Gray.	G h	<i>Gomphocarpus tomentosus</i> , Gray.	S h
<i>Trixis angustifolia</i> , DC. var. <i>latiuscula</i> ,		<i>Philibertia Torreii</i> , Gray.	G h 5
Gray.	D d	Gentianaceæ.	
<i>Microseris elegans</i> , Greene.	S c	<i>Erythraea venusta</i> , Gray.	G h 2
<i>platycarpa</i> , Gray.	G h	* <i>Douglasii</i> , Gray.	D h
<i>Lindleyi</i> , Gray.	G h	<i>floribunda</i> , Benth.	G m
<i>linearifolia</i> , Gray.	G	<i>Frasera Parryi</i> , Torr.	N m 3
<i>Stephanomeria virgata</i> , Benth.	G	<i>Eustoma exaltatum</i> , Griseb.	L d
<i>Rafinesquia Californica</i> , Nutt.	G c	Polemoniaceæ.	
* <i>Neo-Mexicana</i> , Gray.	D d	<i>Phlox longifolia</i> , Nutt., var. <i>Stansburyi</i> ,	
<i>Anisocoma acaule</i> , T. & G.	G m	Gray.	L m
<i>Calycoseris</i> * <i>Parryi</i> , Gray.	D d	<i>nana</i> , Nutt.	L m
<i>Malacothrix Coulteri</i> , Gray.	G h	<i>Gilia Sessei</i> , Don.	G m
<i>Californica</i> , DC.	G h	<i>divaricata</i> , Nutt.	G h
<i>glabrata</i> , Gray.	L m	<i>Leemmoni</i> , Gray.	G m
<i>Clevelandi</i> , Gray.	F m	<i>liniflora</i> , Benth.	G m
<i>Atrichoseris</i> * <i>platyphylla</i> , Gray.	D d	var. <i>pharnaceoides</i> , Gray.	G h
<i>Troximon retrorsum</i> , Gray.	G m	<i>dianthoides</i> , Endl.	c
<i>heterophyllum</i> , Greene.	L m	<i>Orcuttii</i> , Parry.	L h
* <i>grandiflorum</i> , Gray.	D m	<i>bella</i> , Gray, <i>new</i> .	L m
<i>Lygodesmia exigua</i> , Gray.	G m	<i>micrantha</i> , Steud.	G
<i>Sonchus oleraceus</i> , L.	G	<i>floribunda</i> , Gray.	G m
<i>asper</i> , Vill.	G	<i>atractyloides</i> , Steud.	G
<i>tenerimus</i> , L.	S c	* <i>Bigelovii</i> , Gray.	D d
Lobeliaceæ.		* <i>ciliata</i> , Benth.	D d
<i>Nemacladus longiflorus</i> , Gray.	G m	* <i>Californica</i> , Benth.	D m
<i>ramosissimus</i> , Nutt.	G h		
<i>Lobelia splendens</i> , Willd.	G m		
<i>Palmerella debilis</i> , Gray.	L d		
<i>Downingia pulchella</i> , Torr.	S c		
Campanulaceæ.			
<i>Githopsis</i> * <i>diffusa</i> , Gray.	N h		

<i>attenuatus</i> , Gray.	L m	<i>aviculare</i> , L.	S
* <i>hispidus</i> , Benth.	D h	* <i>Bistorta</i> , L.	D m
<i>Cordylanthus filifolius</i> , Nutt.	G	<i>Hartwrightii</i> , Gray.	L m
<i>Nevinii</i> , Gray.	G m	* <i>amphibium</i> , L.	D m
<i>Orcuttianus</i> , Gray.	L h	* <i>tenue</i> , Michx.	D m
<i>maritimus</i> , Nutt.	S s	<i>Nemacaulis Nuttallii</i> , Benth.	F c
Orobanchaceæ.		<i>Eriogonum Thurberi</i> , Torr.	F 2
<i>Aphyllon fasciculatum</i> , Gray.		<i>angulosum</i> , Benth.	F
<i>Californicum</i> , Gray.		<i>foliosum</i> , Watson.	L m 8
<i>Ludovicianum</i> , Gray.		<i>fasciculatum</i> , Benth.	G 5
<i>comosum</i> , Gray.		<i>Wrightii</i> , Torr.	G 5
Bignoniaceæ.		<i>Baileyi</i> , Watson.	L m
<i>Chilopsis saligna</i> , Don.	S d	<i>gracile</i> , Benth.	S m
Acanthaceæ.		<i>Orcuttianum</i> , Watson.	L d 3
<i>Beloperone Californica</i> , Benth.	G c	<i>trichopodium</i> , Torr.	L d
Labiatae. Mint Family.		<i>Parishii</i> , Watson.	G m 4
<i>Hypstis Emoryi</i> , Torr.	G d	* <i>Palmeri</i> , Watson.	S m
<i>Mentha Canadensis</i> , L.	G m	<i>vinineum</i> , Dougl.	G
<i>Pycnanthemum Californicum</i> , Torr.	G	* <i>apiculatum</i> , Watson.	D m
<i>Monardella macrantha</i> , Gray.	D m	<i>elongatum</i> , Benth.	S h
<i>nana</i> , Gray.	G m	* <i>saxatile</i> , Watson.	S m
* <i>odoratissima</i> , Benth.	S m	<i>parvifolium</i> , Smith.	N c
<i>lanceolata</i> , Gray.	G m	<i>nudum</i> , Dougl.	D m
<i>villosa</i> , Benth., var.	L m	* <i>Parryi</i> , Gray.	D d
<i>linoides</i> , Gray.	G	* <i>Plumatella</i> , D. & H.	D d
<i>Acanthomintha ilicifolia</i> , Gray.	F h	* <i>crenulatam</i> , Parry.	D h
<i>Pogogyne nudiuscula</i> , Gray.	S c	* <i>Thomasii</i> , Torr.	D d
<i>Salvia carduacea</i> , Benth. Thistle-sage.	G	* <i>reniforme</i> , Torr.	D d
<i>Columbarisæ</i> , Benth.	G	<i>Oxytheca trilobata</i> , Gray.	S h
<i>Audibertia incana</i> , Benth. Sage.	G m	<i>perfoliata</i> , T. & G.	D d
<i>stachyoides</i> , Benth. w	G h	<i>Chorizanthe polygonoides</i> , T. & G.	S c
<i>Clevelandi</i> , Gray. b	S h	* <i>corrugata</i> , T. & G.	D d
<i>polystachya</i> , Benth. White sage.	G	* <i>Watsoni</i> , T. & G.	D d
<i>Marrubium vulgare</i> , L. Hoarhound.	G	<i>Orcuttiana</i> , Parry, <i>new</i> .	S c 2
<i>Stachys bullata</i> , Benth.	G	<i>Californica</i> , Gray.	S c 2
<i>Trichostema lanatum</i> , Benth.	G	<i>fimbriata</i> , Nutt.	G h 2
<i>lanceolatum</i> , Benth.	D	<i>laciniata</i> , Torr.	F m
<i>Parishii</i> , Vasey. Romero.	G h	<i>staticoides</i> , Benth.	N h
<i>Scutellaria Bolanderi</i> , Gray.	S m	<i>procumbens</i> , Nutt.	F h
<i>angustifolia</i> , Pursh.	S m	<i>Parryi</i> , Watson.	G m
* <i>tuberosa</i> , Benth.	S h	* <i>brevicornu</i> , Torr.	D d
<i>Brunella vulgaris</i> , L.	S m	<i>Lastarriaæ</i> , Parry.	G
Verbenaceæ.		<i>Pterostegia drymarioides</i> , F. & M.	G
<i>Verbena officinalis</i> , L.	G c	Amarantaceæ. (Weeds, &c.)	
<i>prostrata</i> , R. Br.	G	<i>Amarantus albus</i> , L.	G
<i>ciliata</i> , Benth.	L m	<i>Californicus</i> , Watson.	G
<i>littoralis</i> , HBK.	L m	* <i>fimbriatus</i> , Benth.	D m
Plantaginaceæ. Plantain.		* <i>Palmeri</i> , Watson.	D d
<i>Plantago major</i> , L.	G	<i>Nitrophila occidentalis</i> , Watson.	G s
<i>Patagonica</i> , Jacq.	G c	<i>Cladotrix *lanuginosa</i> , Nutt.	D d
<i>hirtella</i> , HBK.	S h	Chenopodiaceæ. (Weeds, &c.)	
Nyctaginaceæ.		<i>Aphanisma blitoides</i> , Nutt.	G c
<i>Mirabilis Californica</i> , Gray.	G 5	<i>Chenopodium album</i> , L.	G
<i>multiflora</i> , Gray.	G m	<i>ambrosioides</i> , L.	D
<i>Abronia umbellata</i> , Lam.	G s	<i>Californicum</i> , Watson.	G
<i>maritima</i> , Nutt.	S s	<i>murale</i> , L.	G
<i>villosa</i> , Watson.	d	<i>Fremontii</i> , Watson.	L d
* <i>turbinata</i> , Torr.	D d	<i>Monolepis chenopodioides</i> , Moq.	G
<i>Boerhaavia viscosa</i> , Gray.	L	<i>spathulata</i> , Gray.	L m
Polygonaceæ.		<i>Atriplex microcarpa</i> , Dietr.	G
<i>Rumex salicifolius</i> , Wein.	G	<i>bracteosa</i> , Watson.	S
<i>hymenosepalus</i> , Torr. Canaigre.	G	<i>Coulteri</i> , Dietr.	G?
<i>Polygonum nodosum</i> , Pers.	S	<i>expansa</i> , Watson.	G?
		<i>hymenelytra</i> , Watson.	G
		<i>canescens</i> , James.	G
		<i>Eurotia lanata</i> , Moq.	D d
		<i>Grayia polygaloides</i> , H. & A.	D d
		<i>Salicornia ambigua</i> , Mx.	G s

Suæda Torreyana, Watson.	G s	Douglasii, Engelm.	Pine mistletoe.
Batidææ.		Phoradendron flavescens, Nutt., var. macrophyllum, Engelm.	
Batis maritima, L.	G s	var. villosum, Engelm.	
Lauracææ.	<i>Laurel.</i>	Bolleanium, Eichl.	
Umbellularia Californica, Nutt.	N m	Californicum, Nutt.	
Urticacææ.	<i>Nettles.</i>	juniperinum, Engelm.	
Urtica holosericea, Nutt.	False nettle.	var. Libocedri, Engelm.	
<i>urens</i> , L.	G h	Gnetacææ.	
Hesperocnide tenella, Torr.	F h	Ephedra Californica, Watson.	G
Parietaria debilis, Forst.	F h	*oxycarpa, Engelm.	D d
Platanacææ.	<i>Sycamore.</i>	Coniferæ.	<i>Pine Family.</i>
Platanus racemosus, Nutt.	G	Juniperus Californicus, Carr.	Juniper.
Euphorbiacææ.		Cupressus Guadalupensis, Watson.	G m
Simmondsia Californica, Nutt.	G	Cypress.	G h
Euphorbia polycarpa, Benth.	G	Libocedrus decurrens, Torr.	Cedar.
<i>hirtula</i> , Engelm.	G h	Abies concolor, Lindl.	Balsam.
<i>misera</i> , Benth.	G c	Pinus Lambertiana, Dougl.	Sugar pine.
<i>dictyosperma</i> , F. & M.	F m	monophylla, T. & F.	Pinone.
Palmeri, Engelm.	F m	Parryana, Engelm.	Pinone.
*eriantha, Benth.	D d	Torreyana, Parry.	Soledad pine.
Eremocarpus setigerus, Benth.	G	ponderosa, Dougl.	D m
Acalypha Californica, Benth.	G h	Jeffreyi, Murr.	Yellow pine.
Croton tenuis, Watson.	D m	Coulteri, Don.	G m
Californicus, Mull.	G	Pseudotsuga Douglasii, Carr., var. macrocarpa, Engelm.	N m
Bernardia *myricæfolia, Watson.	D d	Orchidacææ.	<i>Orchid Family.</i>
Stillingia linearifolia, Watson.	G	Epipactis gigantea, Dougl.	G h
*annua, Mull.	D d	Habenaria Cooperi, Watson.	S c
Argythamnia *serrata, Mull.	D d	*leucostachys, Watson.	D m
sericophylla, Gray.	G d	Iridacææ.	<i>Iris Family.</i>
Callitrichacææ.		Sisyrinchium bellum, Watson.	Blue grass.
Callitriche *verna, L.	N m		G c
marginata, Torr.	S c	Amaryllidacææ.	<i>Century plants.</i>
Piperacææ.	<i>Yerba manse.</i>	Agave deserti, Engelm.	Mescal.
Houttuynia Californica, B. & H.	G	Pringlei, Engelm.	ined.
Ceratophyllacææ.		Shawii, Engelm.	G c
Ceratophyllum demersum, L.	G m	Liliacææ.	<i>Lily Family.</i>
Betulacææ.	<i>Birch Family.</i>	Allium unifolium, Kellogg.	G h 2
Alnus oblongifolia, Nutt.	Alder.	*attenuifolium, Kellogg.	D h
Salicacææ.	<i>Willow.</i>	serratum, Watson.	S h
Salix lasiolepis, Benth.	G	*lacunosum, Watson.	Onions.
longifolia, Muhl.	G d	*parvum, Kellogg.	D m
lævigata, Bebb.	S h	hæmatochiton, Watson.	G 2
Populus trichocarpa, T. & G.	N m	fimbriatum, Watson.	L m 3
Fremonti, var. Wislizeni, Wats.	Cottonwood.	Muilla maritima, Watson.	G c
Juglandacææ.	<i>Walnut.</i>	Bloomeria aurea, Kellogg.	G h 2
Juglans Californica, Watson.	N m	Clevelandi, Watson, <i>new</i> .	S c 2
Cupuliferææ.	<i>Oak.</i>	Brodiaea minor, Watson.	G h
Quercus pungens, Engelm.	L m	capitata, Benth.	G 2
dumosa, Nutt.	Shrub oak.	Orcuttii, Greene, <i>new</i> .	S c 2
oblongifolia, Torr.	White oak.	Chlorogalum parviflorum, Watson.	G h
crystolepis, Liebm.	G h	Smilacina sessilifolia, Nutt.	S m
Palmeri, Engelm.	F m	Nolina Palmeri, Watson.	Sotole.
agrifolia, Nec.	Cal. live oak.	*Parryi, Watson.	D d
Kelloggii, Newberry.	D m	Bigelovii, Watson.	L d
Emoryi, Torr.	L m	Yucca baccata, Torr.	Ciote.
Castanopsis chrysophylla, A. DC.	N m	Whipplei, Torr.	G h
Loranthacææ.	<i>Mistletoe.</i>	Lillium Parryi, Watson.	Parry's lily.
Arceuthobium occidentale, Engelm.		Humboldtii, R. & L.	Tiger lily.
		*Washingtonianum, Kellogg.	D m
		Calochortus *albus, Dougl.	D h
		Weedii, Wood.	Butterfly tulip.
		luteus, Dougl.	F m
		venustus, Benth.	G h

Palmeri, Watson.	L m	speciosa, T. & R.	
Veratrum Californicum, Dur.	D m	eminens, Cav.	
Zygadenus *venenosus, Watson.	D m	Parishii, Vasey.	
Fremonti, Torr.	D	coronata, Thurb.	
Typhaceæ.		Muhlenbergia debilis, Trin.	
Typha latifolia, L. Cat-tail.	G	*pungens, Thurb.	D
Lemnaceæ.		Sporobolus asperifolius, Thurb.	
Lemna trisulca, L.		airoides, Torr.	
Valdiviana, Phil.		ramulosus, Kunth.	
minor, L.		Epicampes rigens, Benth.	
Naiadaceæ.		Avena <i>futua</i> , L. (et var.) Oat.	G
Triglochin maritimum, L.	S s	Deschampsia gracilis, Vasey, <i>new</i> .	S c
Potamogeton natans, L.	L m	Paspalum distichum, L.	G h
pusillus, L.		Panicum *Urvilleanum, Kunth.	D d
lucens, L.		capillare, L.	
Naias major, Allione.	L m	dichotomum, L.	D
Lilæa subulata, HBK.	S h	Alopecurus geniculatus, L.	D
Zannichellia *palustris, L.		Agrostis Scouleri, Trin. ?	
Ruppia *maritima, L.		exarata, Trin. (et var.)	
Alismaceæ.		verticillata, Vill.	
Echinodorus rostratus, Engelm.	S c	virescens, HBK.	
Juncaceæ.		microphylla, Steud. (et var.)	
Juncus robustus, Watson.	G	scabra, Willd., var. ?	
Balticus, Deth.	G	grandis, Trin. ?	
bufonius, L.	G	asperifolia, Trin. ?	
*longistylis, Torr.	D h	Cinna *macroura, Kunth.	D d
dubius, Engelm.	G	Eriocoma cuspidata, Nutt.	
Juncus xiphioides, Mey.	G h	Spartina stricta, Roth.	S s
oxymeris, Engelm.	G	Cynodon Dactylon, Pers.	
Palmeæ. Palms.		Bouteloua racemosa, Lag.	L m
Washingtonia filifera, Wendl. California		Trisetum barbatum, Steud.	
fan palm.	G	Lamarkia aurea, Mœnch.	G
Erythea edulis, Watson. Guadalupe Isl-		Phragmites communis, Trin.	G
and palm.		Tricuspis *pulchella, Torr.	D d
armata, Watson. Blue palm.	L d	Dactylis <i>glomerata</i> , L.	G
Cyperaceæ. Sedges.		Kœleria cristata, Pers.	F c
Cyperus lævigatus, L.	G	Melica imperfecta, Trin.	G
aristatus, Rottb.		poæoides, Torr.	
Michauxianns, Schult.		Distichlis maritima, Raf.	G
occidentalis, Torr.		Poa tenuifolia, Nutt., (varieties.)	
Scirpus setaceus, L.	G	Festuca <i>Myurus</i> , L.	G
lacustris, L.		tenella, Willd.	D
Olneyi, Gray.		microstachys, Nutt.	D
sylvaticus, L., var. digynus, Borck.	D h	var. divergens.	
*pungens, Vahl.		var. ciliata.	
Hemicarpha subsquarrosa, Nees.		Bromus <i>maximus</i> , Desf.	
Eleocharis acicularis, R. Br.		<i>erectus</i> , Huds.	
palustris, R. Br.		<i>carinatus</i> , H. & A.	
capitata, R. Br.	G	unioloides, Willd.	D
arenicola, Torr.		Lolium <i>temulentum</i> , L.	G
Carex triquetra, Boott.	G c	Agropyrum repens, L.	
siccata, Dewey, var. minor.	L m	tenerum, Vasey.	
Gramineæ. Grasses.		glaucum, R. & S.	
Polypogon Monspeliensis, Desf.	F	Hordeum jubatum, L.	G
Hilaria rigida, Thurb.	G d	* <i>murinum</i> , L.	D
Andropogon saccharoides, Swartz.		nodosum, L.	
dissitiflorus, Michx.		Elymus condensatus, Presl.	D
Phalaris <i>Canariensis</i> , L.		var. triticoides, Thurb.	D
intermedia, Bosc.		Orcuttianus, Vasey, <i>new</i> .	S
var. angusta, Chapm.		Sitanion, Schult.	D
Aristida bromoides, HBK.		Eragrostis poæoides, Beauv., var. mega-	
purpurea, Nutt., var.		stachya, Gray.	
Orcuttiana, Vasey, <i>new</i> .	L m	oxylepis, Torr.	
Stipa setigera, Presl.		Imperata brevifolia, Vasey.	L d
		Equisetaceæ.	
		Equisetum robustum, Al. Br. Horse-tail	
		rush.	G
		Ophioglossaceæ.	
		Ophioglossum nudicaule, L. f.	G c

- Filices. Ferns.**
 Polypodium Californicum, Kaulf. G c
 Gymnogramme triangularis, Kaulf. Gold fern. G h
 var. viscosa, Eaton. Silver fern. G
 Notholaena Californica, Eaton. G
 Newberryi, Eaton. Cotton fern. G h
 Parryi, Eaton. Parry's fern. G d
 Cheilanthes Californica, Mett. Lace f. G h
 *viscida, Davenport. N d
 Cooperæ, Eaton. San Bernardino. G
 *Parishii, Davenport. D d
 *fibrillosa, Davenport. ined. N m
 myriophylla, Desv. Fendler's f. G m
 Clevelandi, Eaton. Cleveland's f. G h
 Pellaea andromedæfolia, Fee. Wire f. G
 Ornithopus, Hook. Tea fern. G
 *Wrightiana, Hook. N? m
 Pteris aquilina, L. Brake. G m
 Adiantum emarginatum, Hook. G c h
 Capillus-Veneris, L. Venus-hair. N m
 *pedatum, L. N m
 Woodwardia radicans, Smith. G m
 Asplenium *Felix-fœmina, Bernh. N m
 Trichomanes, L., var. incisum, Moore. Feather fern. F h
 Aspidium argutum, Eaton. D m
 munitum, Kaulf. G h
 Cystopteris fragilis, Bern. Bladder f. D m
 Woodsia sp. indet. L m

Selaginellæ.

- Selaginella rupestris, Spring. G
 *lepidophylla, Spring. L h
 Isoetes sp. indet. S c

Marsiliaceæ.

- Marsilia vestita, H. & G. D c m
 Pilularia Americana, Al. Br. D c

Salviniaceæ.

- Azolla Caroliniana, Willd.

Musci. Mosses.

These have been sparingly collected.

Sphagnaceæ.

Several species.

Characeæ.

- Chara fœtida, Al. Br. G

Hepaticææ.

Several species.

Lichenes. Lichens.

- Roccella tinctoria, DC.
 leucophæa, Tuck.
 Ramalina ceruchis, Ach.
 reticulata, Noehd. Lace lichen.
 Menziesii, Tuck.
 crinita, Tuck.
 Evernia vulpina, L. Golden lichen.
 prunastri, L.
 Usnea barbata, L., varieties.
 jubata, Fr.
 ochroleuca, Fr.
 Theloschistes chrysophthalmus, L.
 parietinus, L.
 Physcia erinacea, Ach.
 olivacea, Ach.

- Parmelia conspersa, Ehrh.
 Heppia Despreauxii, Mont.
 Placodium bolacinum, Tuck.
 cinnabarrinum, Ach.
 aurantiacum, Lightf.
 cerinum, Hedw.
 ferrugineum, Huds.
 luteo-minimum, Tuck.
 Lecanora muralis, Sch.
 cenisia, Ach.
 subfusca, L.
 atra, Huds.
 Pacifica, Tuck.
 cinerea, L.
 Rinodina radiata, Tuck.
 bolodes, Tuck.
 Pertusaria flavicunda, Tuck.
 Urceolaria scruposa, Smf.
 Stereocaulon albicans, Nyl.
 Cladonia fimbriata, Fr.
 pyxidata, Fr.
 Lecidea cruciaria, Tuck.
 Buellia sidalea, Tuck.
 nyriocarpa, DC.
 Stylographa parallela, Nyl.
 Chiodecton epærotum, Tuck.
 Arthonia epigna, Tuck.
 Acolium Bolanderi, Tuck.
 Endocarpon pusillus, Hedw.

Fungi.

No complete collection ever made.

Algæ. Sea-mosses.

SPECIES COLLECTED AT SAN DIEGO
 BY DANIEL CLEVELAND.

- Ahnfeltia gigartinoides, Ag.
 plicata, Fr.
 Amphiroa cretacea.
 orbigniana, Harv.
 Arthrocladia —?
 Asperococcus sinuosus, Bory.
 Bryopsis plumosa, Lmx.
 Callithamnion Americanum, Harv.
 dasyoides, Ag.
 heteromorphum, J. Ag.
 LeJolisea, Farlow.
 scopulorum.
 Callophyllis centrocarpa.
 gracillarioides, Farlow.
 lacinata, Kutz.
 obtusifolia, Ag.
 variegata, Kutz.
 Chætomorpha ærea, Dillw.
 clavata.
 Chondria atropurpurea, Harv.
 Chondrus affinis, Harv.
 canaliculatus, Ag.
 Chrysemenia obovata.
 Cladophora Ecklonii.
 membranacea, Ag.
 Corallina officinalis, L.
 squamata, Ellis & Sol.
 Codium tomentosum, Stack.
 Cordylecladia conferta, Mont.
 Cruoria purpurea, Crn.
 Cryptonemia crenulata, Ag.
 dichotoma, J. Ag.
 obovata, Ag.
 Ceramium rubrum, Ag.

- Dasya* *Helena*, Farlow.
 subsecunda, Suhr.
Delessiria *quercifolia*, Bory.
Desmarestia *ligulata*, Lmx.
 " var. *herbacea*.
Dictyota *Kunthii*, Ag.
Ectocarpus *crinitus*, Harv.
 fasciculatus, Ag.
 granulosus, Ag.
 siliculosus, Lyng.
 virescens, Thurst.
Eisenia *arborea*, Aresch.
Egregia *Menziesii*, Aresch.
Endocladia *muricata*, J. Ag.
Entromorpha *compressa*, Grev.
 intestinalis, Lmx.
Farlowia *compressa*, J. Ag.
Fucus *fastigiatus*, Ag.
 vesiculosus, L.
Gelidium *carneum*, Lmx.
 cartilagineum, Grev.
 Coulteri, Harv.
 crinale, Ag.
Gigartina *canaliculata*, Harv.
 mammillosa, Ag.
 microphylla, Harv.
 var. *horrida*, Farlow.
 radula, Ag.
 spinosa, Harv.
 pistillata, Ag.
Gracillaria *confervoides*, Grev.
 multipartita, Ag.
Gymnogongrus *leptophyllus*, Ag.
 linearis, Ag.
Grateloupia *Cutleria*, Kutz.
Halidrys *osmundacea*, Harv.
Hypnea *divaricata*, Grev.
 musciiformis, Lmx.
Iridæa *minor*, Bory.
Jania *rubens*, Lmx.
Leathesia *tuberiformis*, S. F. Gray.
Lithothamnion *polymorphum*, Aresch.
Lithothrix *aspergillum*, J. E. Gray.
Lomentaria *ovalis*, Ag., v. *Coulteri*, Harv.
Laurencia *cervicornis*, Harv.
 pinnatifida, Lmx.
 virgata, J. Ag.
Macrocystis *pyrifera*, Ag.
Melobesia *amplexifrons*, Harv.
 Le Normandi, Aresch.
 membranacea, Lmx.
Microcladia *Coulteri*, Harv.
 Californica, Farlow.
Nereocystis *Lutkeana*, Post & Rupr.
Nitophyllum *Andersonii*, Ag.
 Ruprechtianum, Ag.
 violaceum, Ag.
Palmella *crassa*, Kg.
- Petrospongium* *Berkeleyi*, Nally.
Peyssonnelia *atropurpurea*, Crn.
 Dubyi, Crn.
 squamaria, Dec.
Phyllophora *Clevelandii*, Farlow.
Pikea *Californica*, Harv.
 Clevelandii, Farlow.
Plocamium *violaceum*, Farlow.
 coccineum, Lyng.
 var. *Californicum*.
 var. *flexuosum*.
 var. *sinuosum*.
Porphyra *vulgaris*, Ag.
Prionitis *Andersonii*, Eaton.
 Clevelandii, Farlow.
 lanceolata, Harv.
Pterygophora *Californica*, Rupr.
Ptilota *densa*, Ag.
 hypnoides, Harv.
Polysiphonia *Baileyi*, Ag.
 bipinnata, Post & Rupr.
 Californica, Harv.
 Clevelandii, Farlow.
 dictyurus, J. Ag.
 pennata, Ag.
 parasitica, Grev.
 var. *dendroidea*, Ag.
 senticulosa, Harv.
 urceolata, Grev.
 verticillata, Harv.
 villum, Ag.
Ralfsia *verrucosa*, Aresch.
Rhodymenia *corallina*, Grev.
 flabellifolia, (Bory) Ag.
 palmata, Grev.
Rhabdonia *Coulteri*, Harv.
Rhadomela *Larix*, Ag.
 subfusca, Ag.
Riccardia *Montagnei*, Derb. & Sol., var.
 gigantea, Farlow.
Sargassum *Agardhianum*, Farlow.
 heterocystum, Ag.
Schizymenia *coccinea*, Harv.
Scinaria *furcellata*, Bivona, var. *undulata*, Farlow.
Scytosiphon *lomentarius*, Ag.
Spermothamnion *roseum*, Aresch.
Sphacelaria *cirrhosa*, Ag.
 fusca, Ag.
Spyridia *filamentosa*, Harv.
Stenogramme *interrupta*, Mont.
Tænioma *Clevelandii*, Farlow.
Ulva *lactuca*, L.
 latissima, Ag.
 linza, Auct.
Zonaria *flava*, Ag.
 Tournefortii, Lmx.

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