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Flora of Southern
and Lower Califor

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

J. H. ORCUTT,

San Diego, California.

FLORA

—OF—

Southern and Lower California.

C. P. Russell

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.

<i>Clematis pauciflora</i> , Nutt.	G c
<i>ligusticifolia</i> , Nutt.	G m
<i>Thalictrum polycarpum</i> , Watson.	G 5
<i>Myosurus minimus</i> , L.	G 2
<i>aristatus</i> , Benth.	D 2
<i>Ranunculus cymbalaria</i> , Pursh.	X
<i>aquatilis</i> , L., v. <i>trichophyllus</i> , Ch.	G 2
<i>cæspitosus</i> , DC.	L m 5
<i>Californicus</i> , Benth. Buttercup.	G m
<i>hebecarpus</i> , Hook. & Arn., var.	
<i>pusillus</i> , Brewer.	F h
<i>Aquilegia truncata</i> , F. & M.	G m
<i>Delphinium simplex</i> , Dougl.	G m
<i>decorum</i> , F. & M. Blue larkspur.	G c
<i>cardinale</i> , Hook.	G m
<i>Pæonia Brownii</i> , Dougl.	G h
* <i>Crossosoma Bigelovii</i> , Watson.	D d

Berberidaceæ. *Barberry.*

<i>Berberis Fremonti</i> , Torr.	L m 3
<i>*pinnata</i> , Lag.	S h

Papaveraceæ. *Poppy.*

<i>Platystemon Californicus</i> , Benth.	G
<i>Romneya Coulteri</i> , Harv.	F h
<i>Argemone hispida</i> , Gray. Thistle poppy	G
<i>Meconopsis heterophylla</i> , Benth.	G
<i>Dendromecon rigidum</i> , Bth. Tree p.	G m
<i>Eschscholtzia Californica</i> , Cham.	G
<i>peninsularis</i> , Greene, <i>new</i> .	L
<i>minutiflora</i> , Watson.	G d

Fumariaceæ.

<i>Dicentra chrysantha</i> , H. & A.	G h
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Cruciferæ.

<i>Alyssum maritimum</i> , L. Sweet A.	G c
<i>Draba cuneifolia</i> , Nutt.	D c
<i>Cardamine paucisecta</i> , Bth. Water cress.	
<i>Arabis perfoliata</i> , Lam.	G m
<i>*longirostris</i> , Watson.	D d
<i>Streptanthus heterophyllus</i> , Nutt.	F c
<i>Caulanthus glandulosus</i> , Hook., var. (?)	
<i>lævis</i> , Watson.	L m
<i>Thelypodium Wrightii</i> , Gray.	L m
<i>Stanleya *pinnatifida</i> , Nutt.	D d
<i>Erysimum asperum</i> , DC.	G
<i>Brassica nigra</i> , Koch. Black mustard.	G
<i>alba</i> , Gray. White mustard.	G
<i>campestris</i> , L. Turnip (wild.)	G
<i>Sisymbrium canescens</i> , Nutt.	G
<i>incisum</i> , Engelm.	L m
var. <i>filipes</i> , Gray.	L m
<i>reflexum</i> , Nutt.	F c
<i>officinale</i> , Scop.	D
<i>Nasturtium officinale</i> , R. Br.	N h
<i>curvisiliqua</i> , Nutt., v. <i>lyratum</i> , W.	G
<i>Vesicaria Fendleri</i> , Gray, var.	L m
<i>Subularia aquatica</i> , L.	G m
<i>Tropidocarpum gracile</i> , Hook.	G c
<i>Lyrocarpa Palmeri</i> , Watson.	L d
<i>Capsella divaricata</i> , Walp.	S c
<i>Bursa-pastoris</i> , Mönch.	G
<i>Lepidium latipes</i> , Hook. Pepper-grasses:	
<i>dictyotum</i> , Gray.	G c
<i>nitidum</i> , Nutt.	G c
<i>Menziesii</i> , DC.	G c

lasiocarpum, Nutt., var. *tenuipes*,

Watson.	L m
<i>intermedium</i> , Gray.	G c
<i>Thysanocarpus curvipes</i> , Hook.	G h
<i>laciniatus</i> , Nutt.	D h
<i>pusillus</i> , Hook.	G h
<i>Biscutella *Californica</i> , B. & H.	D d
<i>Raphanus sativus</i> , L.	G

Capparidaceæ.

<i>Cleome integrifolia</i> , Nutt.	S h
<i>Isomeris arborea</i> , Nutt.	G

Resedaceæ.

<i>Oligomeris subulata</i> , Boiss.	G c
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Cistaceæ.

<i>Helianthemum scoparium</i> , Nutt.	G
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Violaceæ.

<i>Viola aurea</i> , Kellogg?	G m
<i>chrysantha</i> , Hook.	G m
<i>pedunculata</i> , T. & G.	G c h

Polygalaceæ.

<i>Polygala Californica</i> , Nutt.	L c
<i>Krameria *parvifolia</i> , Benth.	G d
<i>canescens</i> , Gray.	G d

Frankeniaceæ.

<i>Frankenia Palmeri</i> , Watson.	S s 2
<i>grandifolia</i> , C. & S.	G 5

Caryophyllaceæ.

<i>Silene Gallica</i> , L. Catch-fly.	G
<i>antirrhina</i> , L.	G c
<i>Californica</i> , Dur.	h
<i>laciniata</i> , Cav.	G h
<i>*Palmeri</i> , Watson.	D m
<i>platyota</i> , Watson.	G m
<i>Cerastium nutans</i> , Raf.	G m
<i>viscosum</i> , L.	G h
<i>Stellaria media</i> , L.	G c
<i>Arenaria alsinoides</i> , Willd.	L m
<i>Douglasii</i> , T. & G.	G
<i>*macradenia</i> , Watson.	D m
<i>macrophylla</i> , Hook.	S m
<i>Saponaria Vaccaria</i> , L.	S c
<i>Lepigonum macrothecum</i> , F. & M.	G s
<i>medium</i> , Fries.	G s
<i>gracile</i> , Watson.	S c
<i>Polycarpon depressum</i> , Nutt.	G c
<i>Lœlingia squarrosa</i> , Nutt.	G h

Illecebraceæ.

<i>Pentacæna ramosissima</i> , H. & A.	G
<i>Achyronychia *Cooperi</i> , T. & G.	D d

Portulacaceæ.

<i>Portulaca oleracea</i> , L. Purslane.	
<i>Calandrinia Menziesii</i> , Hook.	G c
<i>maritima</i> , Nutt.	F c
<i>Claytonia perfoliata</i> , Don.	G h
<i>Calyptridium monandrum</i> , Nutt.	G

Tamariscineæ. *Candlewood.*

<i>Fouquiera splendens</i> , Engelm.	F d
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Elatinaceæ.

<i>Elatine brachysperma</i> , Gray.	S c
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Hypericaceæ.

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

Malvaceæ.

Malva borealis, Wallm.	G
Sidalcea humilis, Gray.	G 5
malvaeflora, Gray.	G
Malvastrum exile, Gray.	S c
Thurberi, Gray.	G h
*densiflorum, Watson.	D d
*rotundifolium, Gray.	D d
foliosum, Watson, <i>new</i> .	L
Sphaeralcea 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
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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.	Alifaria.
moschatum, L'Her.	"
macrophyllum, H. & A.	G h
Linnanthes *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
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Rhamnaceæ.

Zizyphus Parryi, Torr.	D d
lycioides, var. canescens, Gray.	G d
Rhamnus crocea, Nutt.	G
Californica, Esch.	Wild coffee
* 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.
integerrimus, H. & A.	Soap-bush.
divaricatus, Nutt.	G m
*rigidus, Nutt.	D h

Vitaceæ. Grape.

Vitis Californica, Benth.	G h
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Sapindaceæ.

Æsculus Parryi, Gray.	Buckeye.
Acer macrophyllum, Pursh.	N m

Anacardiaceæ. Sumacs.

Rhus ovata, Watson, <i>new</i> .	G m
integrifolia, Nutt.	G c
laurina, Nutt.	G c
diversiloba, T. & G.	Poison oak.
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
hirsutissimus, Benth.	G c
gracilis, Agardh.	G h
Orcuttii, Watson.	L m
*Arizonicus, Watson.	D d
brevicaulis, Watson.	D d
albicaulis, Dougl.	G?
littoralis, Dougl.	G?
Douglasii, Agardh.	G?
Trifolium Macraei, H. & A.	Clovers:
ciliatum, Nutt.	G h
monanthum, Gray.	G
microcephalum, Pursh.	
fucatum, Lindl.	
gracilentum, T. & G.	
involveratum, Willd.	
tridentatum, Lindl.	
var. obtusiflorum, Watson.	
Melilotus alba, Lam.	Sweet clover.
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
Heermannii, 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, <i>new</i> .	L m
*Parryi, T. & G.	D d
Astragalus oocarpus, Gray.	G
didymocarpus, H. & A.	G
dispermus, Gray.	G

*Vaseyi, Watson.	G d
Leucopsis, T. & G. Rattle-weed.	G
*Coulteri, Benth.	D d
Sonore, Gray.	L m
stenophyllus, T. & G.	L m
Oreocutianus, Watson ined.	L d
*tricaratus, 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 d
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
Chamaebatia foliolosa, Benth.	G h
Purshia tridentata, DC.	D d
Cercocarpus parvifolius, Nutt.	G h
Fragaria Californica, C. & S. Strawberry.	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, Rem.	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
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
Enothera Californica, Watson.	G
*trichocalyx, Nutt.	D d
strigulosa, T. & G.	G m
cheiranthifolia, Horn.	G s
gaurethlora, 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
gracilentia, T. & G.	G h
*heicaulis, T. & G.	D d
*tricuspis, 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

Datisceæ.

Datisca glomerata, B. & H.	G h
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Cactaceæ. Cacti.

Mamillaria Goodridgii, Scheer.	G c
*phellosperma, Engelm.	D d
Echinocactus viridescens, Nutt.	G c
Oreocutii, Engelm. ined.	L h
cylindraceus, Engelm.	d
Wislizeni, Engelm.	N d
Cereus phœniceus, 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.	
aquilaterale, 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
Deweyia arguta, T. & G.	G m
Carum Gairdneri, B. & H.	N m
Enanthe Californica, Watson.	G h
Daucus pusillus, Michx.	G h
Sanicula Menziesii, H. & A.	S h
bipinnatifida, Dougl.	G h

laciniata, H. & A.	G h
<i>Apium graveolens</i> , L.	S
<i>Apiastrum angustifolium</i> , Nutt.	G h
<i>Selinum</i> *capitellatum, B. & H.	D m
<i>Angelica tomentosa</i> , Watson.	G m
<i>Caucalis microcarpa</i> , H. & A.	G
<i>Peucedanum dasy carpum</i> , T. & G.	G
<i>Euryptera</i> , Gray.	D c

Cornaceæ.

<i>Cornus Californica</i> , C. A. Meyer.	N m
<i>Garrya flavescens</i> , var. <i>Palmeri</i> , Wat.	F m

Caprifoliaceæ.

<i>Sambucus glauca</i> , Nutt.	Elder.
<i>Symphoricarpos mollis</i> , Nutt.	S m
<i>racemosus</i> , Michx.	Snowdrop.
<i>Lonicera hispidula</i> , Dougl., var. <i>subspicata</i> , Gray.	G

Rubiaceæ.

<i>Kelloggia</i> *galioides, Torr.	D m
<i>Galium Andrewsii</i> , Gray.	G m
<i>Rothrockii</i> , Gray.	L m
<i>angustifolium</i> , Nutt.	G m
<i>stellatum</i> , Kellogg.	L m
<i>pubens</i> , Gray.	G h
<i>Aparine</i> , L., var. <i>Vaillantii</i> , Koch.	G c

Valerianaceæ.

<i>Valerianella macrocera</i> , Gray.	G h
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Compositæ.

<i>Hofmeisteria</i> *plurisetæ, Gray.	D d
<i>Brickellia Californica</i> , Gray.	G
<i>frutescens</i> , Gray.	G d
<i>atractyloides</i> , Gray.	L d
<i>Carphophorus junceus</i> , Benth.	G
<i>Gutierrezia Californica</i> , T. & G.	G m
<i>Euthamia</i> , T. & G.	G h
<i>Grindelia robusta</i> , Nutt.	G h
<i>Pentachæta aurea</i> , Nutt.	G
<i>Eremiastrium</i> *bellioides, Gray.	D d
<i>Lessingia glandulosa</i> , Gray.	S h
<i>Monoptilon</i> *bellidiforme, T. & G.	D d
<i>Heterotheca grandiflora</i> , Nutt.	G
<i>Chrysopsis villosa</i> , Nutt., var. <i>sessiliflora</i> , Gray.	G
<i>Aplopappus squarrosus</i> , H. & A.	G h
<i>linearifolius</i> , DC.	G m
<i>Palmeri</i> , Gray.	G h
<i>Berberidis</i> , Gray.	L c
<i>Oreuttii</i> , Gray, <i>new</i> .	L
<i>Bigelovia Menziesii</i> , Gray.	G
<i>spatulata</i> , Gray.	G m
<i>brachylepis</i> , Gray.	L m
<i>graveolens</i> , Gray.	G m
<i>teretifolia</i> , Gray.	D d
* <i>paniculata</i> , Gray.	D d
<i>Solidago Californica</i> , Nutt.	G h
* <i>confinis</i> , Gray.	S h
<i>Dorethrogne</i> filaginifolia, Nutt.	G
<i>Aster Andersoni</i> , Gray.	D m
<i>exilis</i> , L.	G m
<i>spinosus</i> , Benth.	G
* <i>parviflorus</i> , Gray.	D d
<i>Erigeron incompertus</i> , Gray, <i>new</i> .	L h
<i>foliosus</i> , Nutt.	S
var. <i>tenuissimus</i> , Gray.	S h
var. <i>stenophyllus</i> , Gray.	L m
<i>Canadensis</i> , L.	G

* <i>Philadelphicus</i> , L.	N h
<i>Baccharis Douglasii</i> , DC.	G h
<i>glutinosa</i> , Pers.	G
<i>Emoryi</i> , Gray.	G h
<i>sarothroides</i> , Gray.	G h
<i>Pluchea camphorata</i> , DC.	N h
<i>borealis</i> , Gray. Mock willow.	G
<i>Micropus Californicus</i> , F. & M.	G h
<i>Psilocarphus Oreganus</i> , Nutt.	S c
<i>tenellus</i> , Nutt.	S c
<i>Stylocline gnaphalioides</i> , Nutt.	S c
<i>Evax caulescens</i> , Gray.	D c
<i>Filago Arizonica</i> , Gray.	L m
<i>Gnaphalium Sprengelii</i> , H. & A.	G
<i>palustre</i> , Nutt.	G
<i>purpureum</i> , L.	G
<i>Iva Hayesiana</i> , Gray.	G
<i>Hymenoclea</i> * <i>Salsola</i> , T. & G.	S d
<i>monogyra</i> , T. & G.	G h
<i>Ambrosia pumila</i> , Gray.	G c
<i>psilostachya</i> , DC. Ragweed.	G
<i>Franseria</i> * <i>dumosa</i> , Gray.	S d
<i>Hookeriana</i> , Nutt.	G
<i>bipinnatifida</i> , Nutt.	G s
<i>deltoidea</i> , Torr.	G c
<i>flexuosa</i> , Gray, <i>new</i> .	L d
<i>Xanthium strumarium</i> , L. Cocklebur.	
<i>Wyethia coriacea</i> , Gray.	G m
<i>Encelia Californica</i> , Nutt.	G c
<i>farinosa</i> , Gray.	N h
<i>viscida</i> , Gray.	G m
* <i>eriocephala</i> , Gray.	D d
<i>Helianthus dealbatus</i> , Gray.	L c
<i>gracilentus</i> , Gray.	F h
<i>Californicus</i> , DC.	F
<i>petiolaris</i> , Nutt.	G
<i>Viguiera laciniata</i> , Gray.	G
<i>Parishii</i> , Greene.	L m
<i>Leptosyne Douglasii</i> , DC.	G c
<i>maritima</i> , Gray.	G s
* <i>Bigelovii</i> , Gray.	D d
<i>Bidens chrysanthemoides</i> , Michx.	G? m
<i>pilosa</i> , L.	L
<i>Madia elegans</i> , Don.	G h
<i>filipes</i> , Gray.	G h
* <i>glomerata</i> , Hook.	D h
<i>Hemizonia</i> * <i>paniculata</i> , Gray.	D m
<i>fasciculata</i> , T. & G.	G h
<i>tenella</i> , Gray.	G h
<i>Wrightii</i> , Gray.	L
<i>floribunda</i> , Gray.	G
<i>Layia glandulosa</i> , H. & A.	G m
<i>elegans</i> , T. & G.	G c
* <i>platyglossa</i> , Gray.	N h
<i>Jaumea carnosa</i> , Gray.	G s
<i>Baeria</i> * <i>Clevelandi</i> , Gray.	S c?
<i>gracilis</i> , Gray.	G
var. <i>tenerimus</i> , Gray.	S h
<i>mutica</i> , Gray.	G s
<i>Eriophyllum Wallacei</i> , Gray.	G m
<i>confertiflorum</i> , Gray.	G
* <i>ambiguum</i> , Gray.	D d
<i>Lasthenia glabrata</i> , Lindl.	G
<i>Baileya pauciradiata</i> , H. & G.	D d
<i>multiradiata</i> , H. & G.	L
<i>Burrielia</i> * <i>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</i> * <i>linearis</i> , Lag.	D d

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

<i>densifolia</i> , Benth.	D m
var. <i>elongata</i> , Gray.	G m
<i>floccosa</i> , Gray.	G
<i>achilleæfolia</i> , Benth.	G
<i>multicaulis</i> , Benth.	G h
* <i>setosissima</i> , Gray.	D d
<i>tenuiflora</i> , Benth.	G h
<i>inconspicua</i> , Dougl.	F h
* <i>latifolia</i> , Watson.	D d
<i>prostrata</i> , Gray.	L m
<i>Laeselia effusa</i> , Gray.	F m
<i>tenuifolia</i> , Gray.	F m
<i>guttata</i> , Gray, <i>new</i> .	L

Hydrophyllaceæ.

<i>Nemophila aurita</i> , Lindl. b	S c
<i>racemosa</i> , Nutt. w	G
<i>Menziesii</i> , H. & A. Blue eyes.	G
<i>insignis</i> , Dougl.	N h
<i>Ellisia membranacea</i> , Benth.	G
<i>chrysanthemifolia</i> , Benth.	G
<i>Phacelia Parryi</i> , Torr.	G c
<i>circinata</i> , Jacq. f.	G h
<i>tanacetifolia</i> , Benth.	G
<i>ramosissima</i> , Dougl.	G
<i>hispida</i> , Gray.	G
* <i>curvipes</i> , Torr.	D d
* <i>micrantha</i> , Torr.	D d
<i>Fremontii</i> , Torr.	G m
<i>Orcuttiana</i> , Gray.	F h
<i>Phacelia grandiflora</i> , Gray.	S c
<i>Whitlavia</i> , Gray.	N h
* <i>campanularia</i> , Gray.	N d
<i>plumosa</i> , Kellogg, <i>new</i> .	L c
<i>suffrutescens</i> , Parry.	N h
<i>Emmenanthe penduliflora</i> , Benth.	G
<i>Tricardia</i> * <i>Watsoni</i> , Torr.	D d
<i>Nama demissum</i> , Gray.	N d
<i>Parryi</i> , Gray.	N m
<i>Eriodictyon tomentosum</i> , Benth.	S h
<i>glutinosum</i> , Bth. Yerba santa.	G? m
<i>angustifolium</i> , Nutt.	F?

Borraginaceæ.

<i>Coldenia</i> * <i>Palmeri</i> , Gray.	D d
* <i>canescens</i> , DC.	D d
<i>Heliotropium Curassavicum</i> , L.	G
<i>Amsinckia spectabilis</i> , F. & M.	F c
* <i>intermedia</i> , F. & M.	N m
<i>tessellata</i> , Gray.	L m
<i>Echidiocarya Californica</i> , Gray.	L m
<i>Eritrichium micranthum</i> , Torr.	G d
<i>racemosum</i> , Watson.	F d
<i>barbigerum</i> , Gray.	G
<i>intermedium</i> , Gray.	S c
<i>circumscissum</i> , Gray.	D h
<i>muriculatum</i> , A. DC.	S c
<i>angustifolium</i> , Torr.	G
<i>setosum</i> , Greene, <i>new</i> .	S c
<i>Californicum</i> , DC., var. <i>subgloch-</i>	
<i>idiatum</i> , Gray.	G c
* <i>pterocaryum</i> , Torr.	D d
<i>Echinosperrum Greenei</i> , Gray.	S c
<i>Pectocarya setosa</i> , Gray.	G d
<i>linearis</i> , DC.	G
* <i>penicillata</i> , A. DC.	D d
<i>Harpagonella Palmeri</i> , Gray.	G c

Convolvulaceæ.

<i>Convolvulus Soldanella</i> , L.	G s
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<i>Californica</i> , Choisy.	S h
<i>occidentalis</i> , Gray.	S h
<i>pentapetaloides</i> , L.	F h
<i>longipes</i> , Watson, var.	L h
<i>Cressa Cretica</i> , L.	G s
<i>Cuscuta Californica</i> , Choisy. Dodders:	G
<i>salina</i> , Engelm.	S s
<i>subinclusa</i> , D. & H.	S m
<i>Dichondra repens</i> , Forst.	F c

Solanaceæ.

<i>Solanum nigrum</i> , L. w	G
<i>Xanti</i> , Gray. b	G
<i>Physalis crassifolia</i> , Benth.	L h
<i>pubescens</i> , L.	F h
<i>Lycium Californicum</i> , Nutt.	G s
<i>Andersonii</i> , var. <i>Wrightii</i> , Gray.	G h
<i>Datura meteloides</i> , DC.	G
<i>Petunia parviflora</i> , Juss.	G
<i>Nicotiana Bigelovii</i> , Wats.	G
<i>Clevelandi</i> , Gray.	S c
<i>glauca</i> , Graham. Tobacco tree.	
<i>attenuata</i> , Torr. Wild tobacco.	

Scrophulariaceæ.

<i>Linaria Canadensis</i> , Dum. Toad-flax.	G
<i>Antirrhinum filipes</i> , Gray.	S
<i>Orcuttianum</i> , Gray. b w	F
<i>subsessile</i> , Gray.	F c
<i>Nuttallianum</i> , Benth.	F c
<i>Mohavea</i> * <i>viscida</i> , Gray.	D d
<i>Scrophularia Californica</i> , Cham. Figwort.	
<i>Collinsia bicolor</i> , Benth.	F h 2
<i>bartsiaefolia</i> , Benth.	G m
<i>Pentstemon cordifolius</i> , Benth. r	G h
<i>ternatus</i> , Torr. r	F h
<i>antirrhinoides</i> , Benth. y	G h
* <i>Rothrockii</i> , Gray.	D m
<i>Palmeri</i> , Gray. w	L d
<i>spectabilis</i> , Thurb.	G h
<i>Clevelandi</i> , Gray. r	F m
* <i>Parryi</i> , Gray.	D d
<i>heterophyllus</i> , Lindl.	N m
<i>pumilus</i> , Nutt., var. <i>incanus</i> , Gr.	L m
* <i>ambiguus</i> , Torr.	D d
<i>Pedicularis</i> * <i>densiflora</i> , Benth.	D h
* <i>semibarbata</i> , Gray.	N m
<i>Mimulus nanus</i> , H. & A.	D m
<i>Fremonti</i> , Gray. r	F h
<i>brevipes</i> , Benth. y	G
<i>glutinosus</i> , Wendl. r	G h
var. <i>punicus</i> , Gray.	S c
<i>cardinalis</i> , Dougl. r	G
<i>luteus</i> , L. y	G
<i>Palmeri</i> , Gray. r	F m
<i>pilosus</i> , Watson. y	G
<i>exiguus</i> , Gray, <i>new</i> .	L m 4
<i>moschatus</i> , Dougl. y Musk.	S m
<i>floribundus</i> , Dougl.	G
<i>inconspicuus</i> , Gray.	G
<i>Stemodia durantifolia</i> , Swartz.	G h
<i>Limosella aquatica</i> , L.	G m
<i>Veronica</i> * <i>alpina</i> , L.	D m
<i>peregrina</i> , L.	G
<i>Castilleja affinis</i> , H. & A.	G
* <i>linearifolia</i> , Benth.	D d
<i>foliolosa</i> , H. & A. Painted feather.	G
* <i>miniata</i> , Dougl.	N m
<i>Orthocarpus Parishii</i> , Gray.	S c
<i>purpurascens</i> , Benth.	G

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

Suæda Torreyana, Watson.	G s	Douglasii, Engelm.	Pine mistletoe-
Batideæ.		Phoradendron flavescens, Nutt., var. macrophyllum, Engelm.	
Batis maritima, L.	G s	var. villosum, Engelm.	
Lauraceæ. Laurel.		Bolleanium, Eichl.	
Umbellularia Californica, Nutt.	N m	Californicum, Nutt.	
Urticaceæ. Nettles.		juniperinum, Engelm.	
Urtica holosericea, Nutt. False nettle.	G h	var. Libocedri, Engelm.	
urens, L.	G	Gnetaceæ.	
Hesperocnide tenella, Torr.	F h	Ephedra Californica, Watson.	G
Parietaria debilis, Forst.	F h	*oxycarpa, Engelm.	D d
Platanaceæ. Sycamore.		Coniferæ. Pine Family.	
Platanus racemosus, Nutt.	G	Juniperus Californicus, Carr. Juniper.	G m
Euphorbiaceæ.		Cupressus Guadalupensis, Watson.	
Simmondsia Californica, Nutt.	G	Cypress.	G h
Euphorbia polycarpa, Benth.	G	Libocedrus decurrens, Torr. Cedar.	G m
hirtula, Engelm.	G h	Abies concolor, Lindl. Balsam.	D m
misera, Benth.	G c	Pinus Lambertiana, Dougl. Sugar pine.	D
dictyosperma, F. & M.	F m	monophylla, T. & F. Pinone.	G d
Palmeri, Engelm.	F m	Parryana, Engelm. Pinone.	F m
*eriantha, Benth.	D d	Torreyana, Parry. Soledad pine.	S c
Eremocarpus setigerus, Benth.	G	ponderosa, Dougl.	D m
Acalypha Californica, Benth.	G h	Jeffreyi, Murr. Yellow pine.	G m
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	Orchidaceæ. Orchid Family.	
Stillifigia 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	Iridaceæ. Iris Family.	
Callitrichaceæ.		Sisyrinchium bellum, Watson. Blue grass.	G c
Callitriche *verna, L.	N m	Amaryllidaceæ. Century plants.	
marginata, Torr.	S c	Agave deserti, Engelm. Mescal.	G d
Piperaceæ. Yerba manse.		Pringlei, Engelm. ined.	L m
Houttuynia Californica, B. & H.	G	Shawii, Engelm.	G c
Ceratophyllaceæ.		Liliaceæ. Lily Family.	
Ceratophyllum demersum, L.	G m	Allium unifolium, Kellogg.	G h 2
Betulaceæ. Birch Family.		*attenuifolium, Kellogg.	D h
Alnus oblongifolia, Nutt. Alder.	S	serratum, Watson.	S h
Salicaceæ. Willow.		*lacunosum, Watson. Onions.	D h
Salix lasiolepis, Benth.	G	*parvum, Kellogg.	D m
longifolia, Muhl.	G d	hæmatochiton, Watson.	G 2
lævigata, Bebb.	S h	fimbriatum, Watson.	L m 3
Populus trichocarpa, T. & G.	N m	Muilla maritima, Watson.	G c
Fremonti, var. Wislizeni, Wats.	Cot-	Bloomeria aurea, Kellogg.	G h 2
tonwood.		Clevelandi, Watson, new.	S c 2
Juglandaceæ. Walnut.		Brodiaea minor, Watson.	G h
Juglans Californica, Watson.	N m	capitata, Benth.	G 2
Cupuliferæ. Oak.		Orcuttii, Greene, new.	S c 2
Quercus pungens, Engelm.	L m	Chlorogalum parviflorum, Watson.	G h
dumosa, Nutt. Shrub oak.	G	Smilacina sessilifolia, Nutt.	S m
oblongifolia, Torr. White oak.	G h	Nolina Palmeri, Watson. Sotole.	L m
crysolepis, Liebm.	F m	*Parryi, Watson.	D d
Palmeri, Engelm.	F m	Bigelovii, Watson.	L d
agrifolia, Née. Cal. live oak.	G	Yucca baccata, Torr. Ciote.	G
Kelloggii, Newberry.	D m	Whipplei, Torr.	G h
Emoryi, Torr.	L m	Lilium Parryi, Watson. Parry's lily.	D m
Castanopsis chrysophylla, A. DC.	N m	Humboldtii, R. & L. Tiger lily.	D m
Loranthaceæ. Mistletoe.		*Washingtonianum, Kellogg.	D m
Arceuthobium occidentale, Engelm.		Calochortus *albus, Dougl.	D h
		Weedii, Wood. Butterfly tulip.	F h
		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.	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>fatua</i> , L. (et var.)	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.	
Najas major, Allione.	L m	dichotomum, L.	D
Lilaea 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.	
Palmæ. Palms.		Bouteloua racemosa, Lag.	L m
Washingtonia filifera, Wendl.	California	Trisetum barbatum, Steud.	
fan palm.	G	Lamarkia aurea, Mench.	G
Erythea edulis, Watson.	Guadalupe Isl- and palm.	Phragmites communis, Trin.	G
armata, Watson.	Blue palm.	Tricuspis *pulchella, Torr.	D d
Cyperaceæ. Sedges.		Dactylis <i>glomerata</i> , L.	G
Cyperus laevigatus, L.	G	Koeleria cristata, Pers.	F c
aristatus, Rottb.		Melica imperfecta, Trin.	G
Michauxianns, Schult.		poaeoides, Torr.	
occidentalis, Torr.		Distichlis maritima, Raf.	G
Scirpus setaceus, L.	G	Poa tenuifolia, Nutt., (varieties.)	
lacustris, L.		Festuca <i>Myurus</i> , L.	G
Olneyi, Gray.		tenella, Willd.	D
sylvaticus, L., var. digynus, Borek.		microstachys, Nutt.	D
*pungens, Vahl.	D h	var. divergens.	
Hemicarpha subsquarrosa, Nees.		var. ciliata.	
Eleocharis acicularis, R. Br.		Bromus <i>maximus</i> , Desf.	
palustris, R. Br.		<i>erectus</i> , Huds.	
capitata, R. Br.	G	<i>carinatus</i> , H. & A.	
arenicola, Torr.		unioloides, Willd.	D
Carex triquetra, Boott.	G c	Lolium <i>temulentum</i> , L.	G
siccata, Dewey, var. minor.	L m	Agropyrum repens, L.	
Gramineæ. Grasses.		tenerum, Vasey.	
Polypogon Monspelienis, Desf.	F	glaucum, R. & S.	
Hilaria rigida, Thurb.	G d	Hordeum jubatum, L.	G
Andropogon saccharoides, Swartz.		* <i>murinum</i> , L.	D
dissitiflorus, Michx.		nodosum, L.	
Phalaris <i>Canariensis</i> , L.		Elymus condensatus, Presl.	D
intermedia, Bosc.		var. triticoides, Thurb.	D
var. angusta, Chapm.		Orcuttianus, Vasey, <i>new</i> .	S
Aristida bromoides, HBK.		Sitanion, Schult.	D
purpurea, Nutt., var.		Eragrostis poaeoides, Beauv., var. mega- stachya, Gray.	
Orcuttiana, Vasey, <i>new</i> .	L m	oxylepis, Torr.	
Stipa setigera, Presl.		Imperata brevifolia, Vasey.	L d
Equisetaceæ.		Equisetaceæ.	
		Equisetum robustum, Al. Br.	Horse-tail
		rush.	G
Ophioglossaceæ.		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
 Notholana 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.
 *Parishii, Davenport. D d
 *fibrillosa, Davenport ined. N m
 myriophylla, Desv. Fendler's f. G m
 Clevelandi, Eaton. Cleveland's f. G h
 Pellaea andromedafolia, 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.
 *pedatum, L. N m
 Woodwardia radicans, Smith. G m
 Asplenium *Filix-femina, 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

Selaginelleæ.

- 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 foetida, Al. Br. G

Hepaticææ.

Several species.

Lichenes. Lichens.

- Roccella tinctoria, DC.
 leucophæa, Tuck.
 Ramalina ceruchis, Ach.
 reticulata, Noehd. Lace lichen
 Menziesii, Tuck.
 erinita, 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.
 Urcularia scruposa, Smf.
 Stereocaulon albicans, Nyl.
 Cladonia fimbriata, Fr.
 pyxidata, Fr.
 Lecidea cruciaria, Tuck.
 Buellia sidalea, Tuck.
 myriocarpa, DC.
 Stylographa parallela, Nyl.
 Chiodecton epharotum, Tuck.
 Arthonia epigina, 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.
 Chaetomorpha aerea, 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 Helenæ*, 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 Cutleriae, Kutz.
Halidrys osmundacea, Harv.
Hypnea divaricata, Grev.
 musciformis, Lmx.
Iridaea 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.
Macrocyctis 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.
Peyssonellia atropurpurea, Crn.
 Dubyi, Crn.
 squamaria, Dec.
Phyllophora Clevelandii, Farlow.
Pikea Californica, Harv.
 Clevelandii, Farlow.
Plocanium 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.
Rhodomenia 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.
Spermothamnium roseum, Aresch.
Sphacelaria cirrhosa, Ag.
 fusca, Ag.
Spyridia filamentosa, Harv.
Stenogramme interrupta, Mont.
Tanioma Clevelandii, Farlow.
Ulva lactuca, L.
 latissima, Ag.
 linza, Auct.
Zonaria flava, Ag.
 Tournefortii, Lmx.

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