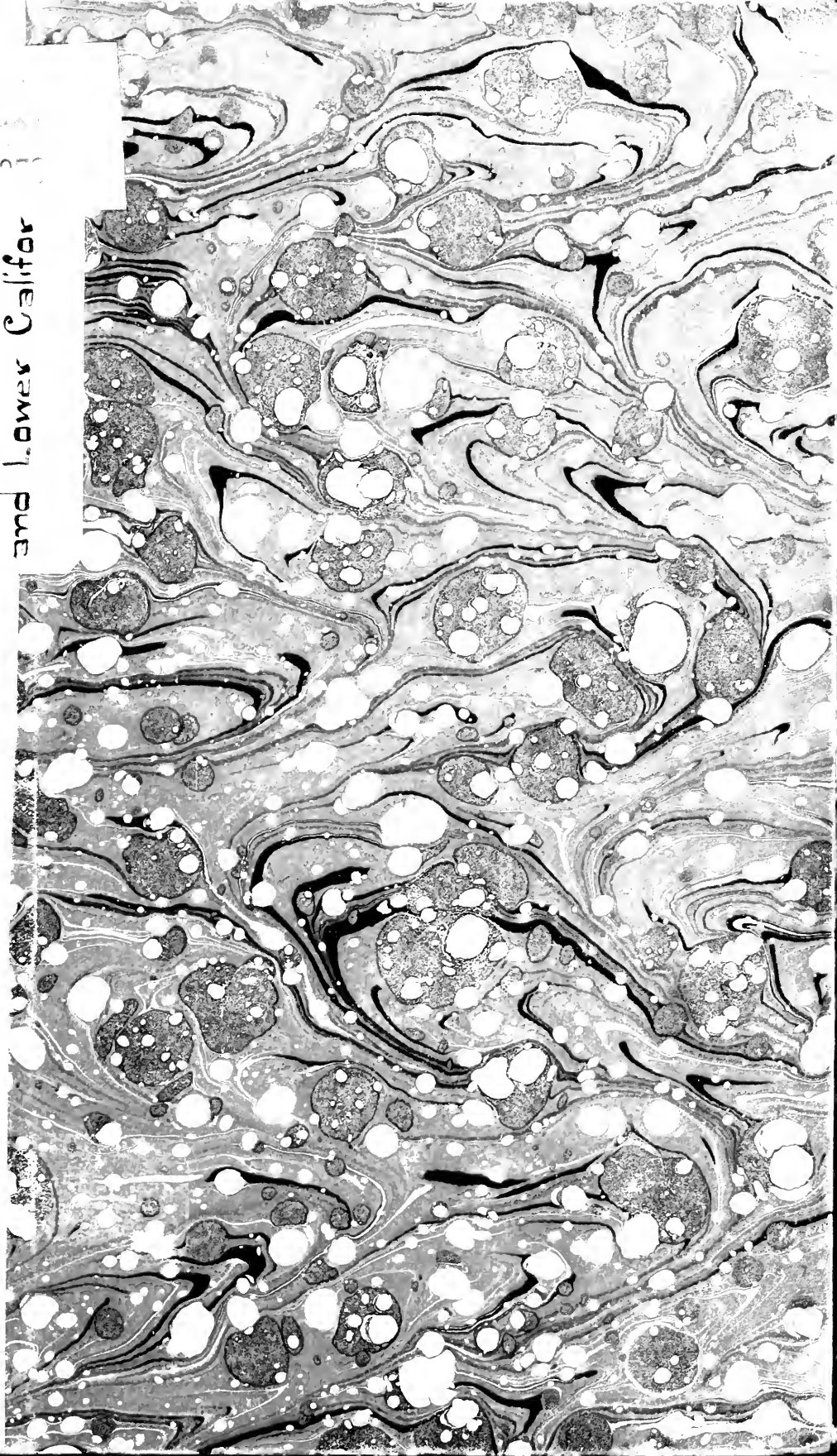


Orcutt

Flora of Southern
and Lower Califor





FLORA

—OF—

Southern and Lower California.

—OF THE—

A CHECK-LIST

—OF THE—

FLOWERING PLANTS AND FERNS.

—BY—

CHARLES RUSSELL ORCUTT



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1885.

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Lower California Date Palm.

Date Palm of commerce.

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

J. H. ORCUTT,

San Diego, California.

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. X
 aquatilis, L., v. trichophyllus, Ch. G 2
 caespitosus, 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. *Barberry.*

- Berberis Fremonti, Torr. L m 3
 *pinnata, Lag. S h

Papaveraceæ. *Poppy.*

- Platystemon Californicus, Benth. G
 Ronneya 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, *new*. 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
 Arabis perfoliata, Lam. G m
 *longiostris, Watson. D d
 Streptanthus heterophyllus, Nutt. F c
 Caulanthus glandulosus, Hook., var.(?) L m
 levis, Watson. L m
 Thelypodium Wrightii, Gray. L m
 Stanleya * pinnatirinda, 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, Mœnch. G
 Lepidium latipes, Hook. Pepper-grasses:
 dietyotum, 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 *Gallia*, L. Catch-fly. G
autirrhina, L. G c
 Californica, Dur. 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
 *maeradenia, Watson. D m
 macrophylla, Hook. S m
 Saponaria *Vaccaria*, L. S c
 Lepigonum macrothecum, F. & M. G s
 medium, Fries. G s
 gracile, Watson. S c
 Polycarpon depressum, Nutt. G c
 Lœflingia squarrosa, Nutt. G h

Illecebraceæ.

- Pentacæna ramosissima, H. & A. G
 Achyronychia *Cooperi, T. & G. D d

Portulacaceæ.

- Portulaca *oleracea*, L. Purslane. G c
 Calandrinia Menziesii, Hook. G c
 maritima, Nutt. F c
 Claytonia perfoliata, Don. G h
 Calyptridium monaudrum, Nutt. G

Tamariscineæ. *Candlewood.*

- Fouquieria splendens, Engelm. F d

Elatinaceæ.

- Elatine brachysperma, Gray. S c

Hypericaceæ.			Anacardiaceæ.	<i>Sumacs.</i>
Hypericum Scouleri, Hook.	G m		Rhus ovata, Watson, <i>new.</i>	G m
*anagaloides, C. & S.	N m		integrifolia, Nutt.	G c
Malvaceæ.			laurina, Nutt.	G c
Malva borealis, Wallm.	G		diversiloba, T. & G. Poison oak.	G
Sidalcea humilis, Gray.	G 5		aromatica, Ait., v. trilobata, Gr.	D m
malvaeflora, Gray.	G		var. indivisa, Watson.	L m
Malvastrum exile, Gray.	S c		Leguminosæ.	<i>Lupine Family.</i>
Thurberi, Gray.	G h		Thermopsis Californica, Watson.	D m
*densiflorum, Watson.	D d		Hoffmannseggia *stricta, Benth.	D d
*rotundifolium, Gray.	D d		*microphylla, Torr.	D d
foliosum, Watson, <i>new.</i>	L		Lupinus densiflorus, Benth.	G
Sphaeralcea Emoryi, Torr.	G		Chamissonis, Esch.	S m
Sida hederacea, Torr.	G		affinis, Agardh.	G h
Abutilon crispum, Don.	L d		micanthus, Dougl.	G
Newberryi, Watson.	L d		sparsiflorus, Benth.	G
Streetsii, Watson.	L h		truncatus, Nutt.	G
aurantiacum, Watson.	L h		hirsutissimus, Benth.	G c
Hibiscus denudatus, Benth.	F d		gracilis, Agardh.	G h
Sterculiaceæ.			Orcuttii, Watson.	L m
Ayenia *pusilla, L.	D h		*Arizonicus, Watson.	D d
Fremontia Californica, Torr.	G h		brevicaulis, Watson.	D d
Linaceæ.		<i>Flax.</i>	albicaulis, Dougl.	G ?
Linum perenne, L.	G m		littoralis, Dougl.	G ?
Zygophyllaceæ.			Douglasii, Agardh.	G ?
Fagonia Californica, Benth.	G h		Trifolium Macraei, H. & A. Clovers:	G h
Larrea Mexicana, Moric.	N d		ciliatum, Nutt.	G h
Geraniaceæ.			monanthum, Gray.	G
Geranium Carolinianum, L.	G h		microcephalum, Pursh.	
caespitosum, James.	L m		fucatum, Lindl.	
Erodium Texanum, Gray.	S c		gracilentum, T. & G.	
<i>vicinarium</i> , L'Her. Alifalria.			involutatum, Willd.	
<i>moschatum</i> , L'Her. "			tridentatum, Lindl.	
macrophyllum, H. & A.	G h		var. obtusiflorum, Watson.	
Limnanthes *Douglasii, R. Br.	N m		Melilotus <i>alba</i> , Lam. Sweet clover.	G m
Oxalis corniculata, L.	G c		<i>parviflora</i> , Desf.	G h
Wrightii, Gray.	L h		Medicago <i>sativa</i> , L. Alfalfa.	
Rutaceæ.		<i>Spice shrubs.</i>	<i>denticulata</i> , Willd. Burr clover.	
Ptelea aptera, Parry.	L h		<i>lupulina</i> , L.	G
Thamnosma montanum, Torr.	G d		Psoralea Californica, Watson.	G m
Cneoridium dumosum, Hook. f.	G h		orbicularis, Lindl.	L m
Celastraceæ.			macrostachya, DC.	G h
Euonymus occidentalis, Nutt.	N m		Amorpha Californica, Nutt.	G
Rhamnaceæ.			Glycyrrhiza lepidota, Pursh.	N
Zizyphus Parryi, Torr.	D d		Hosackia rigida, Benth.	L m
lycioides, var. canescens, Gray.	G d		rigida, var. argyrea, Watson.	L m
Rhamnus crocea, Nutt.	G		oblongifolia, Benth.	G
Californica, Esch. Wild coffee	G m		maritima, Nutt.	S h
* var. tomentella, B. & W.	D m		strigosa, Nutt.	S h
Condalia *spathulata, Gray.	D d		Purshiana, Benth.	G
Adolphia Californica, Watson.	G c		glabra, Torr.	G h
Ceanothus cuneatus, Nutt.	G c		prostrata, Nutt.	G h
sorediatus, H. & A. Wild lilac.	G h		micantha, Nutt.	G c
integerrimus, H. & A. Soap-bush.	G h		argophylla, Gray.	G m
divaricatus, Nutt.	G m		Heermanni, D. & H.	G h
*rigidus, Nutt.	D h		*crassifolia, Benth.	D h
Vitaceæ.		<i>Grape.</i>	*grandiflora, Benth.	N m
Vitis Californica, Benth.	G h		*brachycarpa, Benth.	D d
Sapindaceæ.			*decumbens, Benth.	N
Aesculus Parryi, Gray. Buckeye.	L c		Dalea *mollis, Benth.	D d
Acer macrophyllum, Pursh.	N m		*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	Ludwigia palustris, Ell.	S c
Leucopsis, T. & G. Rattle-weed.	G	Clarkia elegans, Lindl.	N h
*Coulteri, Benth.	D d	rhomboidea, Dougl.	L m
Sonora, Gray.	L m	Gayophytum ramosissimum, T. & G.	G
stenophyllus, T. & G.	L m	Eulobus Californicus, Nutt.	G c
Oreocutianus, Watson ined.	L d	Enothera Californica, Watson.	G
*tricarminatus, Gray.	D d	*trichocalyx, Nutt.	D d
Crotalaria, Gray.	D h	strigulosa, T. & G.	G m
*Parishii, Gray.	N m	cheiranthifolia, Horn.	G s
*Preusii, Gray.	D d	gaureiflora, T. & G.	N d
Olneya Tesota, Gray. Iron-wood.	G d	*brevipes, Gray.	D d
Vicia exigua, Nutt. Vetch.	G c	*cardiophylla, Torr.	D d
Cassia Covessii, Gray.	G d	refracta, Watson.	D d
Lathyrus venosus, Muhl.	G c	bistorta, Nutt., var. (?) Veitchi- ana, Hook.	G h
splendens, Kellogg. Wild pea.	F h	biennis, L.	G h
Parkinsonia *Torreyana, Watson.	D d	Godetia epilobioides, Watson. w	G h
Prosopis juliflora, DC. Mesquit.	G	tenella, Watson. r	G h
pubescens, Benth. Screw bean.	G	Boisduvalia densiflora, Watson.	G
Acacia Greggii, Gray.	G		
Rosaceæ.			
Prunus *Fremonti, Watson.	G d	Petalonyx *Thurberi, Gray.	D d
demissa, Walp. Choke cherry.	D m	Mentzelia albicaulis, Dougl.	G m
ilicifolia, Walp. Oak-leaf cherry.	G	gracilentia, T. & G.	G h
*fasciculata, Gray.	D d	*helicaulis, T. & G.	D d
Rubus Nutkanus, Moc.	D m	*tricuspis, Gray.	D d
ursinus, C. & S. Dewberry.	G	micrantha, T. & G.	L h
Chamaëtia foliolosa, Benth.	G h		
Purshia tridentata, DC.	D d	Cucurbitaceæ.	
Cercocarpus parvifolius, Nutt.	G h	Megarrhiza Californica, Torr. Chilocothe	G
Fragaria Californica, C. & S. Strawberry.	D m	Cucurbita perennis, Gray.	G
Potentilla rivalis, Nutt., var. mille- grana, Watson.	G m	palmata, Watson. Mock orange.	G
Horkelia Californica, C. & S.	D m	*Californica, Torr.	D d
Cal., var. paucifoliata, Watson.	L h		
*Bolanderi, Gray, v. Parryi, Wats.	D m	Datisceæ.	
Ivesia Baileyi, Watson.	L m	Datisca glomerata, B. & H.	G h
Adenostoma sparsifolium, Torr.	G m		
fasciculatum, H. & A. Grease-wood.	G	Cactaceæ. Cacti.	
Rosa Californica, C. & S. Wild rose.	G 5	Mamillaria Goodridgii, Scheer.	G c
minutifolia, Eng. Parry's rose.	L c	*phellosperma, Engelm.	D d
Heteromeles arbutifolia, Rcm.	G	Echinocactus viridescens, Nutt.	G c
Alchemilla arvensis, Scop.	S h	Oreocutii, 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.	
		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
		Deweya 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
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		

laciniata, H. & A.	G h	*Philadelphicus, 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. <i>Mock willow</i> .	G
<i>Euryptera</i> , Gray.	D c	<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 *Salsola</i> , T. & G.	S d
		<i>monogyra</i> , T. & G.	G h
		<i>Ambrosia pumila</i> , Gray.	G c
		<i>psilostachya</i> , DC. <i>Ragweed</i> .	G
		<i>Franseria *dumosa</i> , Gray.	S d
		<i>Hookeriana</i> , Nutt.	G
		<i>bipinnatifida</i> , Nutt.	G s
		<i>deltoides</i> , Torr.	G c
		<i>flexuosa</i> , Gray. <i>new</i> .	L d
		<i>Xanthium strumarium</i> , L. <i>Cocklebur</i> .	
		<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.	S h
		<i>Madia elegans</i> , Don.	G h
		<i>filipes</i> , Gray.	G h
		<i>*glomerata</i> , Hook.	D h
		<i>Hemizonia *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 *Clevelandii</i> , Gray.	S c?
		<i>gracilis</i> , Gray.	G
		<i>var. 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 *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
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. <i>Elder</i> .			
<i>Symphoricarpos mollis</i> , Nutt.	S m		
<i>racemosus</i> , Michx. <i>Snowdrop</i> .	S m		
<i>Lonicera hispidula</i> , Dougl., var. <i>subspicata</i> , Gray.	G		
Rubiaceæ.			
<i>Kelloggia *galioides</i> , 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		
Compositæ.			
<i>Hofmeisteria *pluriseeta</i> , Gray.	D d		
<i>Brickellia Californica</i> , Gray.	G		
<i>frutescens</i> , Gray.	G d		
<i>atractyloides</i> , Gray.	L d		
<i>Carphephorus 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>Pentachaeta aurea</i> , Nutt.	G		
<i>Eremiastrum *bellioides</i> , Gray.	D d		
<i>Lessingia glandulosa</i> , Gray.	S h		
<i>Monoptilon *bellidiforme</i> , 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>Orcuttii</i> , Gray. <i>new</i> .	L		
<i>Bigelovia Menziesii</i> , Gray.	G		
<i>spathulata</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>Corethrogyne filaginifolia</i> , 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		
<i>var. tenuissimus</i> , Gray.	S h		
<i>var. stenophyllus</i> , Gray.	L m		
<i>Canadensis</i> , L.	G		

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

densifolia, Benth.	D m	Californica, Choisy.	S h
var. elongata, Gray.	G m	occidentalis, Gray.	S h
floccosa, Gray.	G	pentapetaloides, L.	F h
achilleaefolia, Benth.	G	longipes, Watson, var.	L h
multicaulis, Benth.	G h	Cressa Cretica, L.	G s
*setosissima, Gray.	D d	Cuscuta Californica, Choisy. Dodders:	G s
tenuiflora, Benth.	G h	salina, Engelm.	S s
inconspicua, Dougl.	F h	subinclusa, D. & H.	S m
*latifolia, Watson.	D d	Dichondra repens, Forst.	F c
prostrata, Gray.	L m		
Laeselia effusa, Gray.	F m	Solanaceæ.	
tenuifolia, Gray.	F m	Solanum nigrum, L. w	G
guttata, Gray, <i>new</i> .	L	Xanti, Gray. b	G
Hydrophyllaceæ.		Physalis crassifolia, Benth.	L h
Nemophila aurita, Lindl. b	S c	pubescens, L.	F h
racemosa, Nutt. w	G	Lycium Californicum, Nutt.	G s
Menziesii, H. & A. Blue eyes.	G	Andersonii, var. Wrightii, Gray.	G h
insignis, Dougl.	N h	Datura meteloides, DC.	G
Ellisia membranacea, Benth.	G	Petunia parviflora, Juss.	G
chrysanthemifolia, Benth.	G	Nicotiana Bigelovii, Wats.	G
Phacelia Parryi, Torr.	G c	Clevelandi, Gray.	S c
circinata, Jacq. f.	G h	glauca, Graham. Tobacco tree.	
tanacetifolia, Benth.	G	attenuata, Torr. Wild tobacco.	
ramosissima, Dougl.	G	Scrophulariaceæ.	
hispidia, Gray.	G	Linaria Canadensis, Dum. Toad-flax.	G
*curvipes, Torr.	D d	Antirrhinum filipes, Gray.	S
*micrantha, Torr.	D d	Oreuttianum, Gray. b w	F
Fremontii, Torr.	G m	subsessile, Gray.	F c
Oreuttiana, Gray.	F h	Nuttallianum, Benth.	F c
Phacelia grandiflora, Gray.	S c	Mohavea *viscida, Gray.	D d
Whitlavia, Gray.	N h	Scrophularia Californica, Cham. Figwort.	
*campanularia, Gray.	N d	Collinsia bicolor, Benth.	F h 2
plumosa, Kellogg, <i>new</i> .	L c	bartsiaefolia, Benth.	G m
suffrutescens, Parry.	N h	Pentstemon cordifolius, Benth. r	G h
Emmenanthe penduliflora, Benth.	G	ternatus, Torr. r	F h
Tricardia *Watsoni, Torr.	D d	antirrhinooides, Benth. y	G h
Nama demissum, Gray.	N d	*Rothrockii, Gray.	D m
Parryi, Gray.	N m	Palmeri, Gray. w	L d
Eriodictyon tomentosum, Benth.	S h	spectabilis, Thurb.	G h
glutinatum, Bth. Yerba santa.	G? m	Clevelandi, Gray. r	F m
angustifolium, Nutt.	F?	*Parryi, Gray.	D d
Borraginaceæ.		heterophyllus, Lindl.	N m
Coldenia *Palmeri, Gray.	D d	pumilus, Nutt., var. incanus, Gr.	L m
*canescens, DC.	D d	*ambiguus, Torr.	D d
Heliotropium Curassavicum, L.	G	Pedicularis *densiflora, Benth.	D h
Amsinckia spectabilis, F. & M.	F c	*semibarbata, Gray.	N m
*intermedia, F. & M.	N m	Mimulus nanus, H. & A.	D m
tessellata, Gray.	L m	Fremontii, Gray. r	F h
Echidocarya Californica, Gray.	L m	brevipes, Benth. y	G
Eritrichium micranthum, Torr.	G d	glutinatus, Weendl. r	G h
racemosum, Watson.	F d	var. puniceus, Gray.	S c
barbigerum, Gray.	G	cardinalis, Dougl. r	G
intermedium, Gray.	S e	luteus, L. y	G
circumscissum, Gray.	D h	Palmeri, Gray. r	F m
muriculatum, A. DC.	S e	pilosus, Watson. y	G
angustifolium, Torr.	S e	exiguus, Gray, <i>new</i> .	L m 4
setosum, Greene, <i>new</i> .	G	moschatus, Dougl. y Musk.	S m
Californicum, DC., var. subgloch-		floribundus, Dougl.	G
idiatum, Gray.	G c	inconspicuus, Gray.	G
*pteroaryum, Torr.	D d	Stemodia durantifolia, Swartz.	G h
Echinosperrum Greenei, Gray.	S c	Limosella aquatica, L.	G m
Pectocarya setosa, Gray.	G d	Veronica *alpina, L.	D m
linearis, DC.	G	pergrina, L.	G
*penicillata, A. DC.	D d	Castilleja affinis, H. & A.	G
Harpagonella Palmeri, Gray.	G c	*linearifolia, Benth.	D d
Convolvulaceæ.		foliolosa, H. & A. Painted feather.	G
Convolvulus Soldanella, L.	G s	*miniata, Dougl.	N m
		Orthocarpus Parishii, Gray.	S c
		purpurascens, 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
Orcuttianus, Gray.	L h	*tenue, Michx.	D m
maritimus, Nutt.	S s	Nemacaulis Nuttallii, Benth.	F c
		Eriogonum Thurberi, Torr.	F 2
Orobanchaceæ.		angulosum, Benth.	F
Aphyllon fasciculatum, Gray.		foliosum, Watson.	L m 3
Californicum, Gray.		fasciculatum, Benth.	G 5
Ludovicianum, Gray.		Wrightii, Torr.	G 5
comosum, Gray.		Baileyi, Watson.	L m
		gracile, Benth.	S m
Bignoniaceæ.		Orcuttianum, Watson.	L d 3
Chilopsis saligna, Don.	S d	trichopodium, Torr.	L d
		Parishii, Watson.	G m 4
Acanthaceæ.		*Palmeri, Watson.	S m
Beloperone Californica, Benth.	G c	vimineum, Dougl.	G
		*apiculatum, Watson.	D m
Labiatae. Mint Family.		elongatum, Benth.	S h
Hyptis Emoryi, Torr.	G d	*saxatile, Watson.	S m
Mentha Canadensis, L.	G m	parvifolium, Smith.	N c
Pycnanthemum Californicum, Torr.	G	nudum, Dougl.	D m
Monardella macrantha, Gray.	D m	*Parryi, Gray.	D d
nana, Gray.	G m	*Plumatella, D. & H.	D d
*odoratissima, Benth.	S m	*erenulatum, Parry.	D h
lanceolata, Gray.	G m	*Thomasi, Torr.	D d
villosa, Benth., var.	L m	*reniforme, Torr.	D d
linoides, Gray.	G	Oxytheca trilobata, Gray.	S h
Acanthomintha ilicifolia, Gray.	F h	perfoliata, T. & G.	D d
Pogogyne nudiuscula, Gray.	S c	Chorizanthe polygonoides, T. & G.	S c
Salvia cardiaca, Benth. Thistle-sage.	G	*corrugata, T. & G.	D d
Columbaria, Benth.	G	*Watsoni, T. & G.	D d
Audibertia incana, Benth. Sage.	G m	Orcuttiana, Parryi, <i>new</i> .	S c 2
stachyoides, Benth. w	G h	Californica, Gray.	S c 2
Clevelandi, Gray. b	S h	fimbriata, Nutt.	G h 2
polystachya, Benth. White sage.	G	laciniata, Torr.	F m
Marrubium <i>vulgare</i> , L. Hoarhound.	G	stacicoides, Benth.	N h
Stachys bullata, Benth.	G	procumbens, Nutt.	F h
Trichostema lanatum, Benth.	G	Parryi, Watson.	G m
lanceolatum, Benth.	D	*brevicornu, Torr.	D d
Parishii, Vasey. Romero.	G h	Lastarria, Parry.	G
Scutellaria Bolanderi, Gray.	S m	Pterostegia drymariooides, F. & M.	G
angustifolia, Pursh.	S m		
*tuberosa, Benth.	S h	Amarantaceæ. (Weeds, &c.)	
Brunella vulgaris, L.	S m	Amarantus <i>albus</i> , L.	
		Californicus, Watson.	G
Verbenaceæ.		*fimbriatus, Benth.	D m
Verbena <i>officinalis</i> , L.	G c	*Palmeri, Watson.	D d
prostrata, R. Br.	G	Nitrophila occidentalis, Watson.	G s
ciliata, Benth.	L m	Cladotrix *lanuginosa, Nutt.	D d
littoralis, HBK.	L m		
		Chenopodiaceæ. (Weeds, &c.)	
Plantaginaceæ. Plantain.		Aphanisma blitoides, Nutt.	G c
Plantago <i>major</i> , L.	G	Chenopodium <i>album</i> , L.	G
Patagonica, Jacq.	G c	<i>ambrosioides</i> , L.	D
hirtella, HBK.	S h	Californicum, Watson.	G
		<i>murale</i> , L.	G
Nyctaginaceæ.		Fremontii, Watson.	L d
Mirabilis Californica, Gray.	G 5	Monolepis chenopodioides, Moq.	G
multiflora, Gray.	G m	spatulata, Gray.	L m
Abronia umbellata, Lam.	G s	Atriplex microcarpa, Dietr.	G
maritima, Nutt.	S s	bracteosa, Watson.	S
villosa, Watson.	d	Coulteri, Dietr.	G?
*turbinata, Torr.	D d	expansa, Watson.	G?
Boerhaavia viscosa, Gray.	L	hymenelytra, Watson.	G
		canescens, James.	G
Polygonaceæ.		Eurotia lanata, Moq.	D d
Rumex salicifolius, Wein.	G	Grayia polygaloides, H. & A.	D d
hymenosepalus, Torr. Canaigre.	G	Salicornia ambigua, Mx.	G s
Polygonum <i>nodosum</i> , Pers.	S		

- Suæda Torreyana, Watson. G s
Batideæ.
 Batis maritima, L. G s
Lauraceæ. *Laurel.*
 Umbellularia Californica, Nutt. N m
Urticaceæ. *Nettles.*
 Urtica holosericea, Nutt. False nettle. G h
urens, L. G
 Hesperocnide tenella, Torr. F h
 Parietaria debilis, Forst. F h
Platanaceæ. *Sycamore.*
 Platanus racemosus, Nutt. G
Euphorbiaceæ.
 Simmondsia Californica, Nutt. G
 Euphorbia polycarpa, Benth. G
hirtula, Engelm. G h
miseria, Benth. G c
dictyosperma, F. & M. F m
 Palmeri, Engelm. F m
**eriantha*, Benth. D d
 Eremocarpus setigerus, Benth. G
 Acalypha Californica, Benth. G h
 Croton tenuis, Watson. D m
Californicus, Mull. G
 Bernardia **myricæfolia*, Watson. D d
 Stillifigia linearifolia, Watson. G
**annua*, Mull. D d
 Argythamnia **serrata*, Mull. D d
sericophylla, Gray. G d
Callitrichaceæ.
 Callitriche **verna*, L. N m
marginata, Torr. S c
Piperaceæ. *Yerba manse.*
 Houttynia Californica, B. & H. G
Ceratophyllaceæ.
 Ceratophyllum demersum, L. G m
Betulaceæ. *Birch Family.*
 Alnus oblongifolia, Nutt. Alder. S
Salicaceæ. *Willow.*
 Salix lasiolepis, Benth. G
longifolia, Muhl. G d
kevigata, Bebb. S h
 Populus trichocarpa, T. & G. N m
Fremonti, var. Wislizeni, Wats. Cot-
 tonwood.
Juglandaceæ. *Walnut.*
 Juglans Californica, Watson. N m
Cupuliferæ. *Oak.*
 Quercus pungens, Engelm. L m
dumosa, Nutt. Shrub oak. G
oblongifolia, Torr. White oak. G h
crystallolepis, Liebm. F m
 Palmeri, Engelm. F m
agrifolia, Née. Cal. live oak. G
 Kelloggii, Newberry. D m
 Emoryi, Torr. L m
 Castanopsis chrysophylla, A. DC. N m
Loranthaceæ. *Mistletoe.*
 Arceuthobium occidentale, Engelm. G s
 Douglasii, Engelm. Pine mistletoe-
 Phoradendron flavescens, Nutt., var. mac-
 rophyllum, Engelm.
 var. villosum, Engelm.
 Bolleanum, Eichl.
 Californicum, Nutt.
 juniperinum, Engelm.
 var. Libocedri, Engelm.
Gnetaceæ.
 Ephedra Californica, Watson. G
**oxycarpa*, Engelm. D d
Coniferæ. *Pine Family.*
 Juniperus Californica, Carr. Juniper. G m
 Cupressus Guadalupensis, Watson. G h
Cypress.
 Libocedrus decurrens, Torr. Cedar. G m
 Abies concolor, Lindl. Balsam. D m
 Pinus Lambertiana, Dougl. Sugar pine. D
monophylla, T. & F. Pinone. G d
 Parryana, Engelm. Pinone. F m
 Torreyana, Parry. Soledad pine. S c
ponderosa, Dougl. D m
 Jeffrey, Murr. Yellow pine. G m
 Coulteri, Don. G m
 Pseudotsuga Douglasii, Carr., var. mac-
 rocarpa, Engelm. N m
Orchidaceæ. *Orchid Family.*
 Epipactis gigantea, Dougl. G h
 Habenaria Cooperi, Watson. S c
**leucostachys*, Watson. D m
Iridaceæ. *Iris Family.*
 Sisyrinchium bellum, Watson. Blue
 grass. G c
Amaryllidaceæ. *Century plants.*
 Agave deserti, Engelm. Mescal. G d
 Pringlei, Engelm. ined. L m
 Shawii, Engelm. G c
Liliaceæ. *Lily Family.*
 Allium unifolium, Kellogg. G h 2
**attenuifolium*, Kellogg. D h
serratum, Watson. S h
**lacunosum*, Watson. Onions. D h
**parvum*, Kellogg. D m
hæmatochiton, Watson. G 2
fimbriatum, Watson. L m 3
 Muilla maritima, Watson. G c
 Bloomeria aurea, Kellogg. G h 2
Clevelandi, Watson, *new.* S c 2
 Brodiaea minor, Watson. G h
capitata, Benth. G 2
Oreuttii, Greene, *new.* S c 2
 Chlorogalum parviflorum, Watson. G h
 Smilacina sessilifolia, Nutt. S m
 Nolina Palmeri, Watson. Sotole. L m
**Parryi*, Watson. D d
 Bigelovii, Watson. L d
 Yucca baccata, Torr. Ciote. G
 Whipplei, Torr. G h
 Lilium Parryi, Watson. Parry's lily. D m
 Humboldtii, R. & L. Tiger lily. D m
**Washingtonianum*, Kellogg. D m
 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 c	Deschampsia gracilis, Vasey, <i>nov.</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
Lilaea subulata, HBK.	S b	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 h	Eriocoma cuspidata, Nutt.	
Juncus xiphioides, Mey.	G h	Spartina stricta, Roth.	S s
oxymeris, Engelm.	G	Cynodon Dactylon, Pers.	
Palmæ. <i>Palms.</i>		Bouteloua racemosa, Lag.	L m
Washingtonia filifera, Wendl.	California	Trisetum barbatum, Steud.	
fan palm.	G	Lamarckia aurea, Moench.	G
Erythea edulis, Watson.	Guadalupe Isl- and palm.	Phragmites communis, Trin.	G
armata, Watson.	Blue palm.	Tricuspis *pulchella, Torr.	D d
Cyperaceæ. <i>Sedges.</i>		Dactylis <i>glomerata</i> , L.	G
Cyperus levigatus, 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. <i>Grasses.</i>		tenerum, Vasey.	
Polypogon Monspeliciensis, Desf.	F	glaucum, R. & S.	
Hilaria rigida, Thurb.	G d	Hordeum jubatum, L.	G
Andropogon saccharoides, Swartz.		* <i>maritimum</i> , L.	D
dissitiflorus, Michx.		nodosum, L.	
Phalaris <i>Canariensis</i> , L.		Elymus condensatus, Presl.	D
intermedia, Bosc.		var. triticooides, Thurb.	D
var. angusta, Chapm.		Orcuttianus, Vasey, <i>nov.</i>	S
Aristida bromoides, HBK.		Sitanion, Schult.	D
purpurea, Nutt., var.		Eragrostis poaeoides, Beauv., var. mega- stachya, Gray.	
Orcuttiana, Vasey, <i>nov.</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.	<i>Ferns.</i>	
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.	
*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

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.		
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Musci. *Mosses.*

These have been sparingly collected.

Sphagnaceæ.

Several species.

Characeæ.

Chara foetida, Al. Br.		G
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Hepaticææ.

Several species.

Lichenes. *Lichens.*

Roccella tinctoria, DC.		
leucophaea, Tuck.		
Ramalina ceruchii, 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.		
Urceolaria 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 pusillum, 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.		
laciniata, Kutz.		
obtusifolia, Ag.		
variegata, Kutz.		
Chaetomorpha 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, Cru.		
Cryptonemia crenulata, Ag.		
dichotoma, J. Ag.		
obovata, Ag.		
Ceramium rubrum, Ag.		

- Dasya* *Helena*, Farlow.
 subsecunda, Suhr.
Delesseria *quercifolia*, Bory.
Desmarestia *ligulata*, Lmx.
 " *var. herbacea*.
Dietyota *Kunthii*, Ag.
Ectocarpus *crinitus*, Harv.
 fasciculatus, Ag.
 granulosus, Ag.
 siliculosus, Lyng.
 virescens, Thurst.
Eisenia *arborescens*, Aresch.
Egredia *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.
 musciiformis, 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.
Macrocytis *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.
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.
 sepiculosa, Harv.
 urceolata, Grev.
 verticillata, Harv.
 villum, Ag.
Ralfsia *verrucosa*, Aresch.
Rhodomenia *corallina*, Grev.
 flabellifolia, (Bory) Ag.
 palmata, Grev.
Rhabdonia *Coulteri*, Harv.
Rhadomela *Larix*, Ag.
 subfusa, Ag.
Riccardia *Montagnei*, Derb. & Sol., var.
 gigantea, Farlow.
Sargassum *Agardhianum*, Farlow.
 heterocystum, Ag.
Schizymenia *coccinea*, Harv.
Scimaria *furecellata*, Bivona, var. *undulata*, Farlow.
Scytosiphon *lomentarius*, Ag.
Spermothamnion *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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