

SOUTHERN AND LOWER CALIFORNIA FLORA.

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NOTE.—This list includes the *Phænogamous* plants collected by me during the past two years in the southern portion of this county and the northern part of Lower California, excluding various Orders and doubtful species. *S* indicates that the species has only been found in this county and *L* that it has only been seen in Lower California, the others having a more general range; *c* indicates the coast, *d* the desert, *m* the mountains, and *h* the region of the hills.

RANUNCULACEÆ.		TAMARISCINEÆ.	
Clematis ligusticifolia, Nutt.		Fouquieria splendens, Engelm.	d
Thalictrum polycarpum, Watson.		HYPERICACEÆ.	
Ranunculus Californicus, Benth.	S m	Hypericum Scouleri, Hook.	S m
aquatilis, L., var. trichophyllus, Gray.		MALVACEÆ.	
hebecarpus, H. & A. v. pusillus, Br.	S h	Malva borealis, Wallm.	
Aquilegia truncata, F. & M.	m	Sidalcea humilis, Gray.	
Delphinium decorum, F. & M.	h	Malvastrum Thurberi, Gray.	
cardinale, Hook.	m	Sphæralcea Emoryi, Torr.	
Pæonia Brownii, Dougl.	m	Abutilon Streetsii, Watson n. sp.	L h
PAPAVERACEÆ.		aurantiacum, Watson n. sp.	L h
Platystemon Californicus, Benth.	h	LINACEÆ.	
Romneya Coulteri, Harv.	h	Linum perenne, L.	m
Argemone hispida, Gray.	m	GERANIACEÆ.	
Meconopsis heterophylla, Benth.	h	Geranium cæspitosum, James.	L m
Dendromecon rigidum, Benth.	h	Erodium cicutarium, L'Her.	
Eschscholtzia Californica, Cham.		macrophyllum, H. & A.	
FUMARIACEÆ.		Oxalis Wrightii, Gray.	h
Dicentra chrysantha, H. & A.	S h	RUTACEÆ.	
CRUCIFERÆ.		Ptelea aptera, Parry n. sp.	L c
Alyssum maritimum, L.	S	Thamnosma montanum, Torr.	d
Cardamine paucisecta, Benth.		Cneoridium dumosum, Hook. f.	h
Streptanthus heterophyllus, Nutt.		CELASTRACEÆ.	
Caulanthus — n. sp.?	L m	Euonymus occidentalis, Nutt.	S m
Thelypodium Wrightii, Gray?	L m	RHAMNACEÆ.	
Sisymbrium canescens, Nutt.	m	Rhamnus crocea, Nutt.	
Nasturtium officinale, R. Br.	S h	Californica, Esch.	
Tropidocarpum gracile, Hook.		Adolphia Californica, Watson.	h
Lepidium latipes, Hook.	h	Ceanothus cuneatus, Nutt.	h
intermedium, Gray.	h	sorediatus, H. & A.	h
Thysanocarpus curvipes, Hook.	h	VITACEÆ.	
pusillus, Hook.	h	Vitis Californica, Benth.	
Lyrocarpa Palmeri, Watson.	L m	SAPINDACEÆ.	
CAPPARIDACEÆ.		Æsculus Parryi, Gray n. sp.	L c
Isomeris arborea, Nutt.	c	ANACARDIACEÆ.	
RESEDACEÆ.		Rhus integrifolia, Benth. & Hook.	
Oligomeris glaucescens, Camb.	h	laurina, Nutt.	
CISTACEÆ.		aromatica, Ait., var. indivisa, Wat.	L m
Helianthemum scoparium, Nutt.	h	LEGUMINOSÆ.	
VIOLACEÆ.		Lupinus densiflorus, Benth.	h
Viola pedunculata, T. & G.	h	Chamissonis, Esch.	S m
POLYGALACEÆ.		albicaulis, Dougl.	L h
Krameria canescens, Gray.	L d	affinis, Agardh.	
FRANKENIACEÆ.		micranthus, Dougl.	h
Frankenia Palmeri, Watson.	S c	sparsiflorus, Benth.	h
grandifolia, C. & S.		truncatus, Nutt.	h
CARYOPHYLLACEÆ.		hirsutissimus, Benth.	h
Silene Californica, Durand.	S h	gracilis, Agardh.	L h
Stellaria media, L.		Trifolium involucreatum, Willd.	
Cerastium viscosum, L.	S	tridentatum, Lindl., var. obtusifl'm, Wat.	
Arenaria Douglasii, T. & G.		Melilotus parviflora, Desf.	
alsinoides, Willd.	L m	alba, Lam.	m
Lepigonon macrothecum, F. & M.		Hosackia oblongifolia, Benth.	
Polycarpon depressum, Nutt.		Purshiana, Benth.	
ILLECEBRACEÆ.		Psoralea orbicularis, Lindl.	
Pentacæna ramosissima, H. & A.		macrostachya, DC.	
PORTULACACEÆ.		Amorpha Californica, Nutt.	
Portulaca oleracea, L.		Dalea canescens, Benth.	L m
Calandrinia Menziesii, Hook.		Astragalus Sonora, Gray.	L m
Claytonia perfoliata, Donn.		leucopsis, T. & G.	
Calyptidium monandrum, Nutt.		ocarpus, Gray.	
		stenophyllus, T. & G.	

<i>Vicia exigua</i> , Nutt.		
<i>Lathyrus venosus</i> , Muhl.		
var. <i>Californicus</i> , Watson?		
<i>splendens</i> , Kellogg.		
<i>Prosopis juliflora</i> , DC.		
<i>pubescens</i> , Benth.		
<i>Acacia Greggii</i> , Gray.		
<i>Cassia Covessii</i> , Gray.	L m	
ROSACEÆ.		
<i>Prunus demissa</i> , Walp.	S m	
<i>ilicifolia</i> , Walp.		
<i>Rubus Nutkanus</i> , Mocino.		
<i>ursinus</i> , C. & S.		
<i>Chamæbatia foliolosa</i> , Benth.	S h	
<i>Horkelia Californica</i> , C. & S., var. <i>paucifolia</i> .	L m	
<i>Ivesia Baileyi</i> , Watson.	L m	
<i>Adenostoma fasciculatum</i> , H. & A.		
<i>sparsifolium</i> , Torr.	m	
<i>Rosa Californica</i> , C. & S.		
<i>minutifolia</i> , Engelm. n. sp.	L c	
<i>Heteromeles arbutifolia</i> , Røem.		
SAXIFRAGACEÆ.		
<i>Saxifraga Parryi</i> , Torr.		
<i>Tellima Cymbalaria</i> , Walp.	S h	
<i>Heuchera rubescens</i> , Torr.	m	
<i>Ribes viburnifolium</i> , Gray n. sp.	L c	
<i>speciosum</i> , Pursh.	h	
<i>sanguineum</i> , Pursh, var.?		
CRASSULACEÆ.		
<i>Tillæa minima</i> , Miers.		
<i>Sedum variegatum</i> , Watson.		
<i>Cotyledon edulis</i> , Brewer.		
<i>pulverulenta</i> , Benth. & Hook.		
<i>lanceolata</i> , Benth. & Hook.		
—?	L m	
LYTHRACEÆ.		
<i>Lythrum alatum</i> , Pursh.		
ONAGRACEÆ.		
<i>Zauschneria Californica</i> , Presl.		
<i>Epilobium spicatum</i> , Lam.		
<i>Gayophytum ramosissimum</i> , T. & G.		
<i>Eulobus Californicus</i> , Nutt.		
<i>Echinotheca biennis</i> , L.	h	
<i>Californica</i> , Watson.		
<i>micrantha</i> , Horner.	S h	
<i>dentata</i> , Cav., var. <i>grandiflora</i> .	S h	
<i>bistorta</i> , Nutt., var. <i>Veitchiana</i> , Hk.	S h	
<i>strigulosa</i> , T. & G.	L	
<i>Boisduvalia densiflora</i> , Watson.	m	
LOASACEÆ.		
<i>Mentzelia micrantha</i> , T. & G.	L h	
<i>gracilentata</i> , T. & G.	L	
CUCURBITACEÆ.		
<i>Cucurbita perennis</i> , Gray.		
<i>palmata</i> , Watson.		
<i>Megarrhiza Californica</i> , Torr.		
DATISCEÆ.		
<i>Datisca glomerata</i> , Benth. & Hook.	S	
CACTACEÆ.		
<i>Mamillaria Goodridgei</i> , Scheer.	c	
<i>Echinocactus viridescens</i> , Nutt.	c	
<i>cylindraceus</i> , Engelm.	d	
— n. sp.?	h	
<i>Cereus Engelmanni</i> , Parry.	d	
<i>Emoryi</i> , Engelm.	c	
<i>guminosus</i> , Engelm. n. sp.	L c	
<i>glomeratus</i> , Engelm. n. sp.	L c	
var. (?) <i>Pacificus</i> , Engelm.	L h	
<i>Opuntia serpentina</i> , Engelm.	c	
<i>prolifera</i> , Engelm.	c	
<i>Bigelovii</i> , Engelm.?	L d	
<i>occidentalis</i> , Engelm.		
FICOIDEÆ.		
<i>Sesuvium Portulacastrum</i> , L.	L	
<i>Mesembryanthemum æquilaterale</i> , Haw.	c	
<i>crystallinum</i> , L.	c	
UMBELLIFERÆ.		
<i>Hydrocotyle prolifera</i> , Kellogg.		
<i>Bowlesia lobata</i> , Ruiz & Pav.		
<i>Eryngium petiolatum</i> , Hook.	S h	
<i>Sanicula laciniata</i> , Hook. & Arn.	h	
<i>Deweya arguta</i> , T. & G.		
<i>Apiastrum angustifolium</i> , Nutt.	h	
<i>Carum Gairdneri</i> , Benth. & Hook.	m	
<i>Ænanthe Californica</i> , Watson.		
<i>Daucus pusillus</i> , Mx.		
CORNACEÆ.		
<i>Cornus Californica</i> , C. A. Meyer.	S m	
<i>Garrya flavescens</i> , var. <i>Palmeri</i> , Watson.	m	
CAPRIFOLIACEÆ.		
<i>Sambucus glauca</i> , Nutt.		
<i>Symphoricarpus racemosus</i> , Mx.	S m	
<i>mollis</i> , Nutt.	S m	
<i>Lonicera conjugalialis</i> , Kellogg.		
RUBIACEÆ.		
<i>Galium pubens</i> , Gray.	L	
<i>Andrewsii</i> , Gray.	m	
<i>angustifolium</i> , Nutt.		
VALERIANACEÆ.		
<i>Plectritis macrocera</i> , T. & G.	L h	
COMPOSITÆ.		
<i>Brickellia Californica</i> , Gray.		
<i>Gutierrezia Californica</i> , T. & G.	m	
<i>Pentachæta aurea</i> , Nutt.		
<i>Aplopappus squarrosus</i> , H. & A.		
<i>Bigelovia Menziesii</i> , Gray.	h	
<i>graveolens</i> , Gray.	m	
<i>tortifolia</i> , Gray.	m	
<i>spatulata</i> , Gray.	m	
<i>Corethrogyne flaginifolia</i> , Nutt.	h	
<i>Aster canescens</i> , Pursh.	m	
<i>Erigeron Canadense</i> , L.		
<i>Tessaria borealis</i> , T. & G.		
<i>Iva Hayesiana</i> , Gray.		
<i>Ambrosia pumila</i> , Nutt.	c	
<i>psilostachya</i> , DC.	L m	
<i>Franseria Hookeriana</i> , Nutt.	L m	
<i>Xanthium strumarium</i> , L.		
<i>Wyethia coriacea</i> , Gray.	m	
<i>Encelia viscida</i> , Gray.	m	
<i>Helianthus petiolaris</i> , Nutt.		
<i>Californicus</i> , DC.		
<i>gracilentus</i> , Gray.	h	
<i>Viguiera laciniata</i> , Gray.	h	
<i>Leptosyne Douglasii</i> , DC.	h	
<i>maritima</i> , Gray.	c	
<i>Madia elegans</i> , Don.	m	
<i>filipes</i> , Gray.	L h	
<i>Hemizonia fasciculata</i> , T. & G.	h	
<i>tenella</i> , Gray.	h	
<i>floribunda</i> , Gray.	S m	
<i>Layia elegans</i> , T. & G.	h	
<i>Jaumea carnosa</i> , Gray.	c	
<i>Hymenopappus luteus</i> , Nutt.	L m	
<i>Actinolepis Wallacei</i> , Gray.	L h	
<i>Bahia confertiflora</i> , DC.	h	
<i>Hymenothrix Wrightii</i> , Gray.	L m	
<i>Amblyopappus pusillus</i> , H. & A.		
<i>Hulsea Californica</i> , T. & G.		
<i>Chænactis tenuifolia</i> , Nutt.	c	
<i>artemisifolia</i> , Gray.	h	
<i>Helenium puberulum</i> , DC.	m	
<i>Perityle Emoryi</i> , Torr., var. <i>nuda</i> , Gray.	h	
<i>Porophyllum gracile</i> , Bth.	h	
<i>Anthemis Cotula</i> , L.		
<i>Artemisia Californica</i> , Less.		
<i>Ludoviciana</i> , Nutt.	m	
<i>dracunculoides</i> , Pursh.	h	
<i>tridentata</i> , Nutt.	m	
<i>Tetradymia comosa</i> , Gray.	m	

Senecio Californicus, DC.	c h	Emmenanthe penduliflora, Benth.	
Cnicus Californicus, Gray.		Nama Parryi, Gray.	S m
Drummondii, var. acaulescens, Gr.	L m	Eriodictyon tomentosum, Benth.	h
Centaurea solstitialis, L.		glutinosa, Benth.	m
Perezia microcephala, Gray.		angustifolium, Nutt.	L h
Microseris platycarpa, Gray.	L h	BORRAGINACEÆ.	
Stephanomeria virgata, Benth.		Heliotropium Curassavicum, L.	
Rafinesquia Californica, Nutt.	h	Amsinckia spectabilis, F. & M.	h
Malacothrix Coulteri, Gray.	L h	Eritrichium Chorisianum, DC.	S c
Californica, DC.	L h	Californicum, DC., var. subglochidi-	
LOBELIACEÆ.		atum, Gray.	S c
Nemacladus ramosissimus, Nutt.	h	oxycaryum, Gray.	S
Lobelia splendens, Willd.	m	micranthum, Torr., var. lepidum, Gr.	L h
Palmerella debilis, Gray.	L d	barbigerum, Gray.	L h
ERICACEÆ.		racemosum, Watson.	L m
Arctostaphylos tomentosa, Dougl.	m	Echinosperrum Greenei, Gray.	S h
pungens, HBK.	m	Pectocarya linearis, DC.	h
glauca, Lindl.	m	Harpagonella Palmeri, Gray.	h
bicolor, Gray.	h	CONVOLVULACEÆ.	
salicifolia, Parry n. sp.	L h	Convolvulus Soldanella, L.	c
arguta, Zucc.	h	Californicum, Choisy.	h
Rhododendron occidentale, Gray.	S m	Cressa Cretica, L.	c
Pyrola aphylla, Smith.	S m	Cuscuta Californica, Choisy.	
LENNOACEÆ.		salina, Engelm.	c
Pholisma arenarium, Nutt.		subinclusa, Dur. & Hilg.	S m
PLUMBAGINACEÆ.		SOLANACEÆ.	
Statice Limonium, L.	c	Solanum nigrum, L.	
PRIMULACEÆ.		Xanti, Gray.	
Dodecatheon Meadia, L.	c h	Physalis crassifolia, Benth.	L h
Anagallis arvensis, L.	c	pubescens, L.	S h
Samolus Valerandi, L.	h m	Lycium Californicum, Nutt.	c
OLEACEÆ.		Andersonii, var. Wrightii, Gray.	h
Fraxinus dipetala, H. & A.	L h	Datura meteloides, DC.	
ASCLEPIADACEÆ.		Nicotiana Bigelovii, Wat.	
Asclepias subulata, Decsne.	L h	Clevelandi, Gray?	
eriocarpa, Benth.	m	Petunia parviflora, Juss.	
fascicularis, Decsne.		SCROPHULARIACEÆ.	
erosa, Torr.	L m	Linaria Canadensis, Dum.	h
Philibertia Torreyi, Gray.	h	Antirrhinum Nuttallianum, Benth.	
GENTIANACEÆ.		— sp.?	
Erythraea venusta, Gray.	h	Scrophularia Californica, Cham.	h
floribunda, Benth.	m	Collinsia bicolor, Benth.	h
Frasera Parryi, Torr.	m	Pentstemon cordifolius, Benth.	S h
Eustoma exaltatum, Griseb.	L d	ternatus, Torr.	m
POLEMONIACEÆ.		antirrhinoides, Benth.	h
Collomia heterophylla, Hook.	S m	spectabilis, Thurber.	h
glutinosa, Gray.	L h	heterophyllus, Lindl.	m
Phlox Douglasii, Hook.?	L m	barbatus, Nutt., var.	L m
Gilia liniflora, Benth., var. pharnace-		Mimulus brevipes, Benth.	h
oides, Gray.	h	glutinosus, Wendl.	h
dianthoides, Endl.	h	cardinalis, Dougl.	m
Orcuttii, Parry n. sp.	L h	luteus, L.	h
micrantha, Steud.	h	floribundus, Dougl.	S m
floribunda, Gray.	m	moschatus, Dougl.	S m
attractyloides, Steud.	h	pilosus, Watson.	h
densifolia, Benth.	h	Palmeri, Gray.	h
virgata, Steud.	m	Stemodia durantifolia, Swartz.	h
achilleæfolia, Benth.	h	Castilleja affinis, H. & A.	
inconspicua, Dougl.	h	foliolosa, H. & A.	
tenuiflora, Benth.	h	Orthocarpus purpurascens, Benth.	
Læselia tenuifolia, Gray.	L m	Cordylanthus Nevintii, Gray.	S m
effusa, Gray.	L m	filifolius, Nutt.	
HYDROPHYLLACEÆ.		Orcuttianus, Gray n. sp.	L m
Nemophila racemosa, Nutt.	h	OROBANCHACEÆ.	
Ellisia membranacea, Benth.	h	Aphyllon Californicum, Gray.	
chrysanthemifolia, Benth.	h	Ludovicianum, Gray.	S h
Phacelia circinata, Jacq. f.	m	ACANTHACEÆ.	
tanacetifolia, Benth.	h	Beloperone Californica, Benth.	L h
ramosissima, Dougl.	h m	LABIATÆ.	
hispida, Gray.	h	Pycnanthemum Californicum, Torr.	
ixodes, Gray n. sp.	L c	Monardella macrantha, Gray.	S m
ciliata, Benth.	L h	nana, Gray.	S m
Douglasii, Torr.	c	linoides, Gray.	h
Orcuttiana, Gray n. sp.	m	lanceolata, Gray.	m
Parryi, Torr.	h	Acanthomintha ilicifolia, Gray.	h
		Pogogyne nudiuscula, Gray.	S h

Salvia carduacea, Benth.	h	Simmondsia Californica, Nutt.	h
Columbaria, Benth.	h	Eremocarpus setigerus, Benth.	h
Audibertia incana, Benth.	m	Acalypha Californica, Benth.	h
stachyoides, Benth.	h	PIPERACEÆ.	
Clevelandi, Gray.	h	Houttuynia Californica, Benth. & Hook.	
polystachya, Benth.	h	CUPULIFERÆ.	
Scutellaria Bolanderi, Gray.	m	Quercus pungens, Engelm.	L m
Marrubium vulgare, L.	h	dumosa, Nutt.	
Stachys bullata, Benth.	h	oblongifolia, Torr.	S h
Trichostema lanatum, Benth.	h	chrysolepis, Liebm.	S m
lanceolatum, Benth.	h	Palmeri, Engelm.	m
Parishii, Vasey.	L h	agrifolia, Nee.	
VERBENACEÆ.		Kelloggii, Newberry.	S m
Verbena officinalis, L.	c	Emoryi, Torr.	L m
prostrata, R. Br.	S m	LORANTHACEÆ.	
ciliata, Benth.	L m	Phoradendron juniperinum, Engelm.	
littoralis, HBK.	L m	Arceuthobium occidentale, Engelm.	m
PLANTAGINACEÆ.		GNETACEÆ.	
Plantago major, L.	h	Ephedra Californica, Watson.	c m
Patagonica, Jacq.	c	CONIFERÆ.	
hirtella, HBK.	S h	Juniperus Californica, Carr.	L m
NYCTAGINACEÆ.		Cupressus Guadalupensis, Watson.	L h
Mirabilis Californica, Gray.	h	Libocedrus decurrens, Torr.	S m
Abronia umbellata, Lam.	c	Abies concolor, Lindl.	S m
maritima, Nutt.	c	Pinus Lambertiana, Dougl.	S m
Boerhaavia viscosa, Gray.	L h	monophylla, Torr. & Frem.	d
POLYGONACEÆ.		Parryana, Engelm.	L m
Rumex hymenosepalus, Torr.	c	Torreyana, Parry.	S c
salicifolius, Wein.		ponderosa, Dougl.	S m
Polygonum Hartwrightii, Gray.	L m	Jeffreyi, Murr.	m
Nemacaulis Nuttallii, Benth.	c	Coulteri, Don.	m
Eriogonum Thurberi, Torr.	h	ORCHIDACEÆ.	
angulosum, Benth.	h	Epipactis gigantea, Dougl.	h
foliosum, Watson n. sp.	L	IRIDACEÆ.	
fasciculatum, Benth.		Sisyrinchium bellum, Watson.	c
Wrightii, Torr.		AMARYLLIDACEÆ.	
Baileyi, Watson.	L m	Agave deserti, Engelm.	d
gracile, Benth.		Pringlei, Engelm. n. sp.	L m
Orcuttianum, Watson n. sp.	L d	Shawii, Engelm.	c
trichopodium, Torr.	L m	LILIACEÆ.	
Parishii, Watson.	L m	Allium unifolium, Kellogg.	h
Oxytheca trilobata, Gray.	m	serratum, Watson.	S h
Chorizanthe Californica, Gray.	S c	hæmatochiton, Watson.	L m
fimbriata, Nutt.	h	Bloomeria aurea, Kellogg.	h
laciniata, Torr.	m	Brodiaea terrestris, Kellogg.	S h
staticoides, Benth.	S h	grandiflora, Smith.	S m
procumbens, Nutt.	h	capitata, Benth.	h
Lastarria Chilensis, Remy.	h	laxa, Watson.	h
Pterostegia drymarioides, F. & M.		Chlorogalum pomeridianum, Kunth.	h
CHENOPODIACEÆ.		Nolina Palmeri, Watson.	L m
Chenopodium Californicum, Watson.		Yucca baccata, Torr.	
Monolepis chenopodioides, Moq.		Whipplei, Torr.	m
Atriplex canescens, James.	L m	Lilium Parryi, Watson.	S m
bracteosa, Watson.	h	Humboldtii, Roetzl & Leicht.	S m
Nitrophila occidentalis, Watson.	L	Fritillaria biflora, Lindl.	h
BATIDEÆ.		Calochortus Weedii, Wood.	h
Batis maritima, L.	c	venustus, Benth.	h
URTICACEÆ.		Palmeri, Watson.	L m
Urtica holosericea, Nutt.	h	Zygadenus Fremonti, Torr.	h
urens, L.		NAIADACEÆ.	
Hesperocnide tenella, Torr.	h	Triglochin maritimum, L.	S c
Parietaria debilis, Forster.	h	Potamogeton natans, L.	S c
PLATANACEÆ.		JUNCACEÆ.	
Platanus racemosa, Nutt.	h	Juncus robustus, Watson.	
EUPHORBIACEÆ.		xiphioides, Meyer.	h
Euphorbia polycarpa, Benth.	h	PALMÆ.	
hirtula, Engelm.	h	Washingtonia filifera, Wendl.	d
misera, Benth.	c	Erythea armata, Watson.	L d
dictyosperma, F. & M.	S m		
Palmeri, Engelm.	m		