

SOUTHERN AND LOWER CALIFORNIA FLORA.

C. R. ORCUTT, San Diego, California, U. S. A.

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.	
Pœonia 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 cœspitosum, 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.	
Pentacœna ramosissima, H. & A.		macrostachya, DC.	
PORTULACACEÆ.		Amorpha Californica, Nutt.	
Portulaca oleracea, L.		Dalea canescens, Benth.	L m
Calandrinia Menziesii, Hook.		Astragalus Sonoræ, Gray.	L m
Claytonia perfoliata, Donn.		leucopsis, T. & G.	
Calyptidium monandrum, Nutt.		oocarpus, 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> , Rœm.		
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>Oenothera 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 Goodridgii</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.		
<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>spathulata</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.		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	Californicus, 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.	
Lœselia 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, Roehl & 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.		JUNCEÆ.	
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		