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### A Flora of the Ballona Wetlands and Environs

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A list of vascular plant taxa is provided for a study area that encompasses the current Ballona Wetlands Ecological Reserve, Ballona Freshwater Wetlands, and areas that were part of the historic Ballona Wetlands and adjacent bluffs. The flora for this area has been documented in unpublished reports and voucher collections but not compiled into a single list. A total of 407 taxa comprise this flora, of which 40% are not indigenous to California. This percentage is higher than the percentage of non-indigenous species in California as a whole (17%). Out of 242 native species reported for the study area, 26 percent (62 species) have not been observed or collected since major hydrological alterations of the watershed began in the 1930s. Restoration planned for the Ballona Wetlands Ecological Reserve offers an opportunity to re-introduce some of the historically native flora, including rare and endangered species.

The study area is located about two miles north of Los Angeles International Airport (Fig. 1). Limits of the study area were defined based on maps of the historical extent of the wetlands and adjacent uplands. Land use planning in this region has been controversial for at least 40 years, with various proposals ranging from development to restoration. With the exception of occasional botanical collections, systematic floristic surveys were not documented until Clark (1979), when a single season of field work was conducted in March and April of 1978. Subsequent floristic surveys in 1980-1981 by Gustafson (1981) and in 1990 by Henrickson (1991) covered more than one season. While these surveys were supported in part by voucher collections deposited with the Natural History Museum of Los Angeles County, results of these and subsequent surveys (Read 1995; MEC Analytical Systems 2005; Johnston 2011) were not published. This paper combines plant lists and historical collection records for the Ballona region into a single list and updates nomenclature. Historical conditions, occurrence of rare species, and occurrence of non-native invasive taxa are also discussed.

Latin nomenclature was updated based on current taxonomy (Baldwin et al. 2012). In cases of species subject to extensive taxonomic revisions, older taxonomies were used to verify identification of historical collections (Abrams 1902, 1917; Munz 1974). Historical maps were examined to locate landmarks cited in voucher collections but not present on current maps. These historical maps consisted of a United States Coast and Geodetic Survey in 1876 (Grossinger et al. 2011) and a vegetation mapping survey of the Redondo 15-minute quadrangle by Jensen (1933). These maps were overlaid on current topography using Geographic Information System software to verify locations of historical landmarks relative to the study area. Reports of archaeological surveys (Altschul et al. 1992, 2003) were reviewed for historical land alterations potentially affecting the flora.

All plant taxa reported from the study area are listed in Table 1. This table is necessarily abbreviated for presentation here. The entire database, including details such as accession numbers and references for each observation or collection, can be provided upon request. Only taxa indigenous or naturalized in the study area were included in this table in order to make the list more meaningful for analysis, restoration and management. In other words, non-invasive, non-native ornamental taxa known to be confined to existing or abandoned landscapes were omitted. A total of 407 taxa are shown in Table 1, of which about 40 percent (165 taxa) are not native to California. Changes in taxonomy over time, especially below the species level, have a minor effect on these statistics.

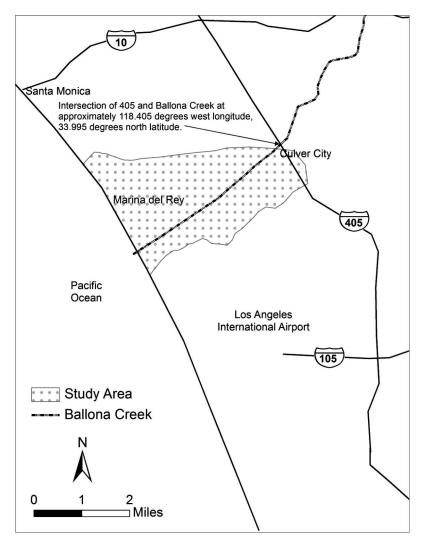


Fig. 1. Study Area Location.

Out of the 242 native taxa listed, about 26 percent (62 species) have not been observed or collected since the 1930s when there were major hydrological alterations of the area for flood control and farming. One of these historical species, Ballona cinquefoil (*Potentilla multijuga*), is believed to have been endemic to Ballona but extirpated sometime after its last collection in 1890 by H.E. Hasse from a "brackish area in coastal sage scrub".

Human impacts in the study area over the past two centuries have been documented extensively by others (Dark et al. 2011; Grossinger et al. 2011), so it is important to recognize that historical botanical collections from the study area do not represent pristine (pre-human disturbance) conditions or a complete flora of the region. A survey map of the wetlands was not published until 1876, which is 57 years after cattle herds were pastured in the Ballona Creek drainage beginning around 1819 (Altschul et al., 1992 p. 56). After 1819, the earliest known botanical collections from Ballona were by S.B. Parish 63 years later, in 1882.

Thus, given at least two centuries of land alteration in the region, it is not surprising that a substantial portion of the flora is not native. The proportion of non-native flora is high when compared to the proportion of 17% non-native taxa in California as a whole<sup>1</sup>, and especially high considering the small size of the study area (1,824 ha) relative to the geographic extent of California (42,476 ha).

Most of the non-native flora has established in the absence of systematic efforts at restoring conditions suitable for sustaining native species in a heavily urbanized watershed, but not all of the invaders have been equally successful. One of the first records of non-native species is of fennel (*Foeniculum vulgare*), collected by Abrams in 1902, yet this species has not invaded the wetlands as extensively as a relative newcomer, pampas grass (*Cortaderia selloana*). There are no historic collections of *Cortaderia* from the study area and its occurrence at Ballona was unremarked until it was reported by Clark (1979).

Coastal estuarine and saltmarsh taxa are noticeably rare in the historical collections. Most of the historic flora is composed of species associated with upland, freshwater or brackish habitats. While there could be various reasons for this, the high proportion of non-estuarine taxa in historical collections is consistent with documentation by Dark et al. (2011) of springs and seasonal ponds that were prevalent historically but no longer exist. One example of this freshwater flora is giant horsetail (*Equisetum telmateia*), collected by Abrams in 1901 from Ballona Creek while it was still a meandering, natural stream. Another example is Oregon ash (*Fraxinus latifolia*) collected by Ewan in 1932 along Ballona Creek in the area of what is now Culver City. This is the only native tree represented in the historic flora.

Examination of the plant list also reveals interesting inconsistencies in the taxonomic records. For example, *Senecio californicus* was collected by Abrams in 1901, but later collectors (Gustafson 1981; Henrickson 1991) identified only *Senecio vulgaris*, a non-native species. This may be a simple misidentification, but alternatively could be an example of niche displacement of a native *Senecio* by an exotic species.

Lastly, determination of which species are truly "native" to the study area is complicated by changes in taxonomy (e.g., "lumping" vs. "splitting" varieties and subspecies), misidentifications, and intentional introduction of taxa for "restoration" without documentation of variety or seed origin. A species of pincushion (*Chaenactis glabriuscula*), an annual herb associated with sandy soils, has been reported several times since it was first collected in 1901. This taxon persists into the current period, but tracing its history of occurrence is complicated by taxonomic re-classifications of some historical collections, and "restoration" efforts that distributed *C. glabriuscula* seeds of unspecified variety and unknown origin. Currently, a variety considered rare by the California Native Plant Society and identified as *C. g.* var. *orcuttiana* persists in dunes that are subject to ongoing restoration efforts, but it is not clear whether this variety is indigenous, intentionally planted, or some combination of both. Some voucher specimens from the study area are classified as the more common variety, *C. g.* var. *glabriuscula*, and deserve further study.

Historical maps show "marsh" but are silent on the issue of what proportion of the wetlands consisted of freshwater vs. saltwater or brackish marsh. However, botanical records show that the study area was occupied by a highly diverse ecosystem. The area encompassed not just wetlands, but a wide variety of other habitat types including dunes, freshwater marshes, seasonal ponds, and riparian communities. Taxonomic inconsistencies in the botanical record introduce some margin of error in calculating species richness, but this is largely of academic interest. Habitat restoration in the study area offers a unique opportunity to reverse a decades-old trend

<sup>&</sup>lt;sup>1</sup> Calculated from Baldwin et al. (2012), p. 1521.

of exotic invasion at the expense of native diversity, while recognizing that significant alterations of the watershed render it impossible to fully restore the historic flora. This study provides a starting point for enhancing function and diversity of the Ballona Wetlands.

Table 1. Checklist of the Flora of the Ballona Wetlands and Environs.

FERNS		Reference	Earliest Collection
Equisetaceae	Horsetail Family		
Equisetum telmateia Ehrh. ssp. braunii (J.Milde) Hauke	giant horsetail	DS, POM	1901
MAGNOLIDS			
Lauraceae	Laurel Family		
Umbellularia californica (Hook. & Arn.) Nutt.	California bay	FWM	R
Saururaceae	Lizard's-Tail Family		
Anemopsis californica (Nutt.) Hook. & Arn.	yerba mansa	POM, RSA,UC	1902
EUDICOTS			
Adoxaceae	Muskroot Family		
		Henrickson 1991,	
Sambucus nigra L. ssp. caerulea (Raf.) Bolli	blue elderberry	FWM	R
Aizoaceae	Iceplant Family		
Aptenia cordifolia (L.f.) Schwantes*	baby sun rose	RSA	1981
Carpobrotus edulis (L.) N.E. Br.*	freeway iceplant	RSA	1980
Delosperma litorale (Kensit) L. Bolus*	ice plant	RSA	1981
Malephora crocea (Jacq.) Schwantes*	coppery mesembryanthemum	RSA	1981
Mesembryanthemum crystallinum L.*	common iceplant	Henrickson 1991	R
Mesembryanthemum nodiflorum L.*	slender-leaved iceplant	RSA	1980
Sesuvium verrucosum Raf.	western sea-purslane	UC	1902
Tetragonia tetragonioides (Pall.) Kuntze*	New Zealand spinach	RSA	1981
Amaranthaceae	Amaranth Family	K5/1	1701
Amaranthus albus L.*	tumbleweed	RSA	1930
Amaranthus blitoides S. Watson	procumbent pigweed	RSA	1980
Amaranthus californicus (Mog.) S. Watson	Californian amaranth	Gustafson 1981	R
Amaranthus deflexus L.*	large fruited amaranth	RSA	1981
Amaranthus tuberculatus (Moq.) J.D. Sauer var. rudis (J.D.	large france amaranar	1071	1701
Sauer) Costea & Tardif*	common waterhemp	Henrickson 1991	R
Anacardeaceae	Sumac Family		
Malosma laurina (Nutt.) Abrams	laurel sumac	POM	1980
Rhus integrifolia (Nutt.) Rothr.	lemonade berry	Gustafson 1981	R
Rhus ovata S. Watson	sugar bush	RSA	1981
Schinus molle L.*	pepper tree	RSA	1980
Schinus terebinthifolius Raddi*	Brazilian pepper tree	Henrickson 1991	R
Apiaceae	Carrot Family		
Apium graveolens L.*	celery	RSA	1902
Conium maculatum L.*	poison hemlock	RSA	1981
Cyclospermum leptophyllum (Pers.) Britton & P. Wilson*	marsh parsley	RSA	1981
Foeniculum vulgare Mill.*	fennel	POM,RSA,UC	1902
Oenanthe sarmentosa DC.	water parsley	POM, UC	1902

Asterisk (\*) indicates taxon not native to California. Grey background indicates a native taxon known only from historical (pre-1940) collections or reports. References: For herbarium specimens, the following acronyms from the Consortium of California Herbaria are used: CAS (California Academy of Sciences); CDA (California Department of Food and Agriculture); DS (Dudley Herbarium in CAS); JEPS (Jepson Herbarium, UC Berkeley); NY (New York Botanical Garden); POM (Pomona Herbarium in the Rancho Santa Ana Botanic Garden); RSA (Rancho Santa Ana Botanic Garden); SFV (California State University Northridge); UC (University Herbarium, UC Berkeley); UCD (UC Davis); UCR (UC Riverside). Where an author and year are cited, the taxon was reported but no voucher specimens could be located. "FWM" refers to a taxon that was observed by this author as having been planted at the constructed Ballona Freshwater Marsh but no records or reports of historical occurrence at Ballona were found. Earliest Collection: year of oldest voucher specimen is given. "R" means reported with no record of collection.

Table 1. Continued.

Table 1.	Continued.		
Apocynaceae	Dogbane Family		
Asclepias fascicularis Decne.	narrow-leaf milkweed	RSA	1930
Asteraceae	Sunflower Family		
Acroptilon repens (L.) DC.*	Russian knapweed	POM	1980
Amblyopappus pusillus Hook. & Arn.	dwarf coastweed	DS	1901
Ambrosia acanthicarpa Hook.	annual bursage	RSA	1980
Ambrosia chamissonis (Less.) Greene	beach bur-sage	DS,POM,RSA	1899
Ambrosia psilostachya DC.	western ragweed	DS,POM,UC,RSA	1902
Anthemis cotula L.*	mayweed	DS	1901
Artemisia californica Less.	California sagebrush	DS,RSA,UC	1902
Artemisia douglasiana Besser	mugwort	DS,POM,RSA	1901
Artemisia dracunculus L.	tarragon	DS,RSA,UC	1902
Baccharis glutinosa Pers.	marsh baccharis	DS,POM	1903
Baccharis pilularis DC.	coyote brush	POM	1980
Baccharis salicifolia (Ruiz & Pav.) Pers.	mulefat	POM,UC	1907
Bidens laevis (L.) Britton et al.	bur-marigold	DS,UC	1902
Brickellia californica (Torr. & A. Gray) A. Gray	California brickellbush	Henrickson 1991	R
Centaurea melitensis L.*	tocalote	POM	1980
Centromadia parryi (Greene) Greene ssp. australis (D.D. Keck) B.G. Baldwin	southern tarplant	JEPS,POM,RSA,U C	1890
Chaenactis glabriuscula DC. var. orcuttiana (Greene) H.M.			10,0
Hall	Orcutt's pincushion	POM,RSA	1980
Chondrilla juncea L.*	skeleton weed	POM	1981
Cichorium intybus L.*	chicory	POM	1980
		Gustafson 1981,	_
Cirsium vulgare (Savi) Ten.*	bull thistle	Henrickson 1991	R
Coreothrogyne filaginifolia (Hook. & Arn.) Nutt.	California-aster	DS,POM Gustafson 1981,	1899
Cotula australis (Spreng.) Hook. f.*	Australian cotula	Henrickson 1991	R
		Gustafson 1981,	
Cotula coronopifolia L.*	brass-buttons	Henrickson 1991	R
Deinandra fasciculata (DC.) Greene	clustered tarplant	POM	1980
Deinandra paniculata (A. Gray) Davidson & Moxley	paniculate tarplant	Henrickson 1991 Gustafson 1981,	R
Dimorphotheca fruticosa (L.) DC.*	trailing African daisy	Henrickson 1991	R
Encelia californica Nutt.	California brittlebush	DS	1899
Ericameria ericoides (Less.) Jeps.	California goldenbush	POM	1981
Ericameria pinifolia (A. Gray) H.M. Hall	pine-bush	Henrickson 1991	R
Erigeron bonariensis L.*	flax-leaved horseweed	Gustafson 1981, Henrickson 1991	R
Erigeron canadensis L.	horseweed	POM	1980
Euryops pectinatus (L.) Cass.*	gray-leaf euryops	Henrickson 1991	R
Euthamia occidentalis Nutt.	western goldenrod	RSA,UC	1902
	treasure flower, African	,	
Gazania linearis (Thunb.) Druce*	daisy	Henrickson 1991	R
Glebionis coronaria (L.) Spach*	garland or crown daisy	UCR	1996
Grindelia camporum Greene	common gumplant	POM	1980
Hedypnois cretica (L.) DumCours.*	Crete weed	POM	1981
Helianthus annuus L.	common sunflower	POM	1980
Helminthotheca echioides (L.) Holub*	bristly ox-tongue	RSA	1980
Heterotheca grandiflora Nutt.	telegraph weed	POM	1980

Table 1. Continued.

Table 1.	Continued.		
Hypochaeris glabra L.*	smooth cat's ear	Henrickson 1991	R
Isocoma menziesii (Hook. & Arn.)	coastal goldenbush	FWM	R
Iva axillaris Pursh	poverty weed	FWM	R
	fleshy jaumea, marsh	POMITIC	1000
Jaumea carnosa (Less.) A. Gray	jaumea	POM,UC	1899
Lactuca serriola L.*	prickly lettuce	POM	1902
Lactuca virosa L.*	bitter lettuce	Henrickson 1991	R
Laennecia coulteri (A. Gray) G.L. Nesom	Coulter's horseweed	POM	1980
Lasthenia californica Lindl.	California goldfields crowned or royal	POM,RSA	1901
Lasthenia coronaria (Nutt.) Ornduff	goldfields	JEPS,POM	1901
Lasthenia glabrata Lindl. ssp. coulteri (A. Gray) Ornduff	Coulter's goldfields	POM	1903
Logfia filaginoides (Hook. & Arn.) Morefield	California cottonrose	POM	1901
Malacothrix saxatilis (Nutt.) Torrey & A. Gray	cliff aster	Gustafson 1981, Henrickson 1991	R
Matricaria discoidea DC.*	pineapple weed	POM	1981
Pluchea odorata (L.) Cass. var. odorata	saltmarsh fleabane	UC	1902
Pseudognaphalium bioletti Anderb.	two-color rabbit- tobacco	POM	1901
Pseudognaphalium californicum (DC.) Anderb.	ladies' tobacco	POM,UCR	1901
Pseudognaphalium canescens (DC.) Anderb.	cudweed	POM	1981
Pseudognaphalium microcephalum (Nutt.) Anderb.	Wright's cudweed	POM,UC	1902
Pseudognaphalium ramosissimum (Nutt.) Anderb.	pink cudweed	POM	1902
Pseudognaphalium stramineum (Kunth) Anderb.	cottonbatting plant	POM	1981
Senecio californicus DC.	California ragwort	POM	1901
Senecio vulgaris L.*	common groundsel	RSA	1930
Silybum marianum (L.) Gaertn.*	milk thistle	RSA	1981
Solidago velutina DC. ssp. californica (Nutt.) Semple	California goldenrod	Henrickson 1991	R
Sonchus asper (L.) Hill*	prickly sow thistle	RSA	1981
Sonchus oleraceus L.*	common sow thistle	RSA	1981
Stephanomeria diegensis Gottlieb	wreathplant	RSA	1980
Stephanomeria exigua Nutt.	small wirelettuce	Gustafson 1981	R
Stephanomeria virgata Benth.	twiggy wreath plant	RSA	1981
Symphyotrichum subulatum (Michx.) G.L. Nesom	annual saltmarsh aster	POM.UC	1901
Taraxacum officinale F.H. Wigg.*	common dandelion	Henrickson 1991	R
Tragopogon porrifolius L.*	purple salsify	UC	1897
Xanthium spinosum L.	spiny cocklebur	RSA	1981
Xanthium strumarium L.	cocklebur	UC	1902
Betulaceae	Birch Family		
Alnus rhombifolia Nutt.	white alder	FWM	R
Boraginaceae	Borage Family		
Amsinkia intermedia Fisch. & C.A. Mey	common fiddleneck	POM	1901
Amsinkia spectabilis Fisch. & C.A. Mey	seaside amsinkia	RSA	1951
Cryptantha clevelandii Greene	cryptantha	UCR	2011
Cryptantha clevelandii Greene var. florosa I.M. Johnst.	coastal cryptantha	POM	1901
Cryptantha intermedia (A. Gray) Greene	common cryptantha	POM	1901
Cryptantha microstachys (A.Gray) Greene	Tejon cryptantha	POM	1901
Heliotropium curassavicum L. var. oculatum (A. Heller)	*1 1 1* :	pos.	1020
Tidestr.	seaside heliotrope	POM	1930
Phacelia parryi Torr.	Parry's phacelia	Henrickson 1991	R
Phacelia ramosissima Lehm.	branching phacelia	POM,RSA	1901

Table 1. Continued.

Table 1.	Continued.		
Brassicaceae	Mustard Family		
Brassica nigra (L.) W.D.J. Koch*	black mustard	Gustafson 1981, Henrickson 1991	R
Brassica rapa L.*	field mustard	RSA	1930
Cakile maritima Scop.*	sea-rocket	Gustafson 1981, Henrickson 1991	R
Caulanthus lasiophyllus (Hook. & Arn.) Payson	California mustard	DS	1899
Descurainia pinnata (Walter) Britton ssp. brachycarpa (Richardson) Detling	tansy mustard	DS	1901
Descurainia pinnata (Walter) Britton ssp. menziesii (D.C.)	tansy mustaru	DS	1901
Detling	Menzies' tansy mustard	POM	1901
Erysimum suffrutescens (Abrams) Rossbach	suffrutescent wallflower	DS,POM,RSA	1901
Hirschfeldia incana (L.) LagrFossat*	summer mustard	Gustafson 1981, Henrickson 1991 Gustafson 1981,	R
Lepidium didymum L.*	lesser swine cress	Henrickson 1991	R
Lepidium lasiocarpum Nutt.	shaggyfruit pepperweed	DS,POM	1901
Lepidium latipes Hook.	dwarf peppergrass	DS	1904
Lepidium latifolium L.*	perennial pepperweed	Henrickson 1991	R
Lepidium nitidum Nutt.	peppergrass	RSA	1954
Lepidium pinnatifidum Ledeb.*	featherleaf pepperweed	RSA	1981
Lepidium virginicum L. ssp. menziesii (DC.) Thell.	wild peppergrass	RSA	1930
Lobularia maritima (L.) Desv.*	sweet alyssum	Gustafson 1981, Henrickson 1991	R
Raphanus sativus L.*	radish	UCR	1996
Sinapis alba L.*	white mustard	Gustafson 1981, Henrickson 1991	1990 R
Sisymbrium altissimum L.*	tumble mustard	Henrickson 1991	R
Sisymbrium irio L.*	London rocket	Gustafson 1981, Henrickson 1991	R
Tropidocarpum gracile Hook.	slender keel fruit	UC	1897
Cactaceae	Cactus Family		2077
Opuntia littoralis (Engelm.) Cockerell	coast prickly-pear	Henrickson 1991	R
Caryophyllaceae	Pink Family		
Polycarpon depressum Nutt.	California allseed	POM	1901
Polycarpon tetraphyllum (L.) L. var. tetraphyllum*	four-leaved all seed	RSA,UCR	1981
Silene gallica L.*	small-flower catchfly	RSA,UCR	1980
Spergula arvenis L.*	stickwort, startwort	RSA	1981
Spergularia bocconi (Scheele) Graebn.*	Boccone's sand-spurrey	Henrickson 1991	R
Spergularia macrotheca (Cham. & Schltdl.) Heynh.	sticky sand-spurrey	POM,RSA	1901
Spergularia marina (L.) Besser	saltmarsh sand-spurrey	CDA,POM	1901
Spergularia villosa (Pers.) Cambess.*	hairy sand-spurrey	Henrickson 1991	R
Chenopodiaceae	Goosefoot Family		
Arthrocnemum subterminale (Parish) Standl	pickleweed	POM,RSA,UC	1902
Atriplex argentea Nutt. var. expansa (S. Watson) S.L. Welsh & Reveal	silverscale	UC	1902
Atriplex californica Moq.	California orach	RSA	1981
Atriplex lentiformis (Torr.) S. Watson	big saltbush	RSA	1981
Atriplex lentiformis (Torr.) S. Watson subsp. lentiformis	big saltbush	UC	1902
Atriplex leucophylla (Moq.) D. Dietr	beach saltbush	RSA,UC	1899
Atriplex nummularia Lindl.*	bluegreen saltbush	Henrickson 1991	R

Table 1	Continued

Spear orach   RSA   1980   Arriplex prostrata DC.*   Arriplex rose L.*   tumbling orach   RSA,UC   1902   Arriplex rose L.*   tumbling orach   RSA,UC   1902   Arriplex semilaccata R.Br.*   Australian saltbush   RSA,UC   1902   Arriplex semilaccata R.Br.*   Australian saltbush   RSA,UC   1902   Arriplex semilaccata R.Br.*   Spawing saltbush   RSA   1980   CDA,POM,RSA,U   1902   Arriplex subreceta I.V crt.*   Spawing saltbush   RSA   1980   CDA,POM,RSA,U   1902   CDA,PSA   1930   CDA,POM,RSA,U   1902   CDA,PSA   1930   CDA,P	Table 1.	Continued.		
Atriplex rosea L.*	Atriplex patula L.	spear orach	RSA	1980
Arriplex suberecta I. Verd.*         Australian saltbush         RSA, US         1902           Arriplex suberecta I. Verd.*         sprawling saltbush         RSA         1981           Beta vulgaris I.*         common beet         CDA,POM,RSA,U         CDA,POM,RSA,U           Chenopodium album L.*         lamb's quarters         RSA         1981           Chenopodium album L.*         nettle leaf goosefoot         RSA         1980           Chenopodium ambrade I.*         nettle leaf goosefoot         RSA         1980           Chenopodium ambrosioides (L.) Mosyakin & Clemants*         Mexican tea         RSA,UC         1902           Dysphania pumilio (R,Br.) Mosyakin & Clemants*         Tasmanian goosefoot         Henrickson 1991         R           Salcoria pacifico Standl         pickeweed         RSA,UC         1902           Salsola tragus L.*         Russian thistle         RSA         1980           Sucada calceoliformis (Hook.) Moq         horned scabilte         Henrickson 1991         R           Sucada calfolifornica S. Watson         California scabilte         Gustafson 1981         R           Vecada calfolifornica S. Watson         California scabilte         POM,RSA         1901           Cloor Convolvulacea         Spiderflower Family         PoM,RSA         1901 <td>Atriplex prostrata DC.*</td> <td>fat-hen</td> <td>RSA</td> <td>1980</td>	Atriplex prostrata DC.*	fat-hen	RSA	1980
Mariplex suberecta I. Verd.*   Sprawling saltbush   RSA   1981	Atriplex rosea L.*	tumbling orach	RSA,UC	1902
Bassia hyssopifolia (Pall.) Kuntze*         five hom bassia         RSA (DA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,POM,RSA,U CDA,RSA PISSO (Phenopodium album L.*)         1902           Chenopodium album La*         lamb's quarters         RSA         1980           Chenopodium murale L.*         pissed goosefoot         RSA         1980           Dysphania ambrosioides (L.) Mosyakin & Clemants*         Mexican tea         RSA,UC         1902           Salcornia pacifica Standl         pickleweed         RSA,UC         1902           Salcornia pacifica Standl         pickleweed         RSA,UC         1902           Salcola tragus L.*         Russian thistle         RSA         1980           Suaceda calceoliformis (Hook.) Moq         horned seablite         Henrickson 1991         R           Suaceda catiforia (Standl.) Standl.         collistration seablite         POM,RSA         1901           Pertionna arborea (Nutt.) H.H. Illis         bladderpod         DS,POM         1899           Convolvulaceae         Family         Femily         Femily           Convolvulus arvensis L.*         cost morning glory         RSA         1981           Culystegia soldamella (L.) R.Br.         cost morning glory         RSA         1981	Atriplex semibaccata R. Br.*	Australian saltbush	RSA,UC	1902
CDA,POM,RSA,U   CC   P002   Chenopodium album L.*   common beet   C   C   P002   Chenopodium album L.*   lamb's quarters   RSA   1981   Chenopodium berlandieri Moq.   pisced goosefoot   RSA   1980   Chenopodium murale L.*   nettle leaf goosefoot   RSA   1980   Dysphania ambrosioides (L.) Mosyakin & Clemants*   nettle leaf goosefoot   CDA,RSA   1930   Dysphania ambrosioides (L.) Mosyakin & Clemants*   Tasmanian goosefoot   Henrickson 1991   R   RSA, UC   1902   Russian thistle   RSA, US   1980   Russian archivesigia (Greene) Brummit ssp. cyclostegia   Russian thistle   RSA, US   1980   Russian archivesigia (Greene) Brummit ssp. cyclostegia   Russian thistle   Russian thistle   RSA, US   1980   Russian thistle   Russian thistle   RSA, US   1980   Russian thistle   Russian thistle   Russian thistle   RSA, US   1980   Russian thistle   Russian thistle   RSA, US   1980   Russian th	Atriplex suberecta I. Verd.*	sprawling saltbush	RSA	1981
Beta vallgaris L.*         common beet         C         1902           Chenopodium album L.*         lamb's quarters         RSA         1981           Chenopodium berlandieri Moq.         pitseed goosefoot         RSA         1980           Chenopodium murale L.*         nettle leaf goosefoot         CDA,RSA         1930           Dysphania ambrosioides (L.) Mosyakin & Clemants*         Mexican tea         RSA,UC         1902           Salicornia pacifica Standl         pickleweed         RSA,UC         1902           Salisola tragus L.*         Russian thistle         RSA         1980           Suaeda californica S. Watson         California seablite         Henrickson 1991         R           Suaeda californica S. Watson         California seablite         Henrickson 1991         R           Suaeda californica S. Watson         California seablite         POM,RSA         1901           Cleomacea         Spiderflower Family         Eurorica arborea (Nutt.) H.H. Illis         Biadderpod         DS,POM         1899           Cleomacea         Morning-Glory         Family         Family         Pommany         RSA         1981           Clowolvulacea         California seablite         Cast morning glory         RSA         1981           Clowolvula aversis L.	Bassia hyssopifolia (Pall.) Kuntze*	five horn bassia	RSA	1980
Chenopodium album L.*         lamb's quarters         RSA         1981           Chenopodium berlandieri Moq.         pissed goosefoot         RSA         1980           Chenopodium murale L.*         pissed goosefoot         CDA,RSA         1930           Dysphania ambrosioides (L.) Mosyakin & Clemants*         Mexican tea         RSA,UC         1902           Dysphania pumilio (R.Br.) Mosyakin & Clemants*         Tasmanian goosefoot         Henrickson 1991         R           Salcornia pacifica Standl         pickleweed         RSA,UC         1902           Salsola tragus L.*         Russian thistle         RSA, UC         1902           Sueeda calciorifiras (Hook.) Moq         horned seablite         Gustafson 1981         R           Sueeda californica S. Watson         California seablite         Gustafson 1981         R           Sueeda californica S. Watson         Spiderflower Family         PoM,RSA         1981           Cleomacea         Spiderflower Family         PoM,RSA         1981           Cleomacros         Morning-Glory         RSA         1981           Convolvulaceae         Morning-Glory         RSA         1981           Convolvula amerostegia (Greene) Brummit ssp. cyclostegia         Gustafson 1981         RSA         1981           Calys				4000
Chenopodium berlandieri Moq.         pitseed goosefoot         RSA         1980           Chenopodium murale L.*         nettle leaf goosefoot         CDA,RSA         1930           Dysphania apumilio (R.Br.) Mosyakin & Clemants*         Mexican tea         RSA,UC         1902           Dysphania pumilio (R.Br.) Mosyakin & Clemants*         Tasmanian goosefoot         Henrickson 1991         R           Salicornia pacifica Standl         pickleweed         RSA,UC         1902           Salsola tragus L.*         Russian thistle         RSA         1980           Suaeda califormis (Hook.) Moq         horned seablite         Henrickson 1991         R           Suaeda taxifolia (Standl.) Standl.         woolly sea-blite         POM,RSA         1901           Peritoma arborea (Nutt.) H.H. Iltis         bladderpod         DS,POM         1899           Convolvulaceae         Morning-Glory         Family           Convolvulaceae         Calystegia macrostegia (Greene) Brummit ssp. cyclostegia         RSA         1981           Claystegia soldanella (L.) R.Br.         beach morning glory         RSA         1981           Caystegia macrostegia (Greene) Brummit ssp. cyclostegia         Goat morning glory         RSA         1981           Caystegia macrostegia (Greene) Brummit ssp. cyclostegia         Goat morning glory </td <td>9</td> <td></td> <td></td> <td></td>	9			
Chenopodium murale L.*  Dysphania ambrosioides (L.) Mosyakin & Clemants*  Mexican tea  RSA,UC  1902  Dysphania pumilio (R.Br.) Mosyakin & Clemants*  Salceornia pacifica Standl  pickleweed  RSA,UC  1902  Salsola tragus L.*  Russian thistle  RSA  1980  Gustafson 1981,  Russian thistle  RSA  1981  Cuscuda californica S. Watson  Colifornia seablite  POM,RSA  1991  Morning-Glory  Family  Const workulacae  Convolvulacae  Convolvulacae  Convolvulacae  Convolvulus arvensis L.*  coast morning glory  RSA  1981  Cuscuda californica Hook. & Arn.  chaparral dodder  RSA  1981  Cuscuda californica Hook. & Arn.  chaparral dodder  RSA  1981  Cuscuda campestris Yunck  field dodder  RSA  1981  Cuscuda campestris Yunck  Crassulance Engelm  salt dodder  RSA,UC  1902  Dichondra occidentalis House  Crassulaceae  Crassula	-	•		
Dysphania ambrosioides (L.) Mosyakin & Clemants*   Tasmanian goosefoot   Henrickson 1991   R	•			
Dysphania pumilio (R.Br.) Mosyakin & Clemants*   Tasmanian goosefoot   Henrickson 1991   R   Salicornia pacifica Standl   pickleweed   RSA, UC   1902   Salsola tragus L.*   Russian thistle   RSA   Gustafson 1981   R   Suaeda calceoliformis (Hook.) Moq   horned seablite   Henrickson 1991   R   Suaeda calceoliformica S. Watson   California seablite   Gustafson 1981   R   Suaeda calceoliformica S. Watson   California seablite   POM,RSA   1901   Peritoma arborea (Nutt.) H.H. Iltis   bladderpod   DS,POM   1899   Peritoma arborea (Nutt.) H.H. Iltis   bladderpod   DS,POM   1899   Morning-Glory   Family   Family   Convolvulacea   Calystegia macrostegia (Greene) Brummit ssp. cyclostegia (House) Brummit   coast morning glory   SFV   1994   Convolvula arvensis L.*   orchard morning glory   SFV   1994   Convolvula arvensis L.*   orchard morning glory   SFN   1930   Cuscuta californica Hook. & Am.   chaparral dodder   RSA   1981   Cuscuta californica Hook. & Am.   chaparral dodder   RSA   1981   Cuscuta canifornica Hook. & Am.   chaparral dodder   RSA   1981   Cuscuta campestris Yunck   field dodder   RSA   1981   Cuscuta salina Engelm   salt dodder   RSA   1981   Cuscuta salina Engelm   salt dodder   RSA   1981   Cuscuta canifornica (Ruiz & Pav.) A. Berger   pygmy-weed   POM,RSA   1901   Dudleya lanceolata (Nutt.) Britton & Rose   Gourd Family   Cutrullus lananus (Thunb.) Matsum. & Nakai var. citroides   Cutrullus lananus (Thunb.) M	•			
Salicornia pacifica Standl pickleweed RSA, UC 1902 Salsola tragus L.* Russian thistle RSA 1980 Gustafson 1981, Suaeda calceolifornis (Hook.) Moq horned seablite Henrickson 1991 R Suaeda californica S. Watson California seablite Gustafson 1981 R Suaeda taxifolia (Standl.) Standl. Woolly sea-blite POM,RSA 1901 Cleomacea Spiderflower Family Peritoma arborea (Nutt.) H.H. Iltis bladderpod DS,POM 1899 Morning-Glory Family Calystegia macrostegia (Greene) Brummit ssp. cyclostegia (House) Brummit coast morning glory RSA 1981 Calystegia soldamella (L.) R.Br. beach morning glory RSA 1930 Convolvulus arvenis L.* orchard morning glory RSA 1930 Convolvulus arvenis L.* orchard morning glory RSA 1931 Cuscuta californica Hook. & Arn. chaparral dodder RSA 1981 Cuscuta campestris Yunck field dodder RSA 1981 Cuscuta campestris Yunck field dodder RSA 1981 Cuscuta campestris Yunck Reger Salt dodder RSA 1981 Cuscuta campestris Yunck Rose Rose Crassula comata (Ruiz & Pav.) A. Berger pygmy-weed POM,RSA,UC 1902 Crassula concata (Nutt.) Britton & Rose Cucurbitacea Citrulius lanatus (Thunb.) Matsum. & Nakai var. citroides (L.H. Bailey) Mansf.* wild watermelon RSA 1981 Chamaesyce albomarginata (Torr. & A. Gray) Small ratlesnake weed RSA 1981 Chamaesyce maculata (L.) Small* spotted spurge RSA 1981 Chamaesyce albomarginata (Torr. & A. Gray) Small ratlesnake weed RSA 1981 Chamaesyce albomarginata (Torr. & A. Gray) Small ratlesnake weed RSA 1981 Chamaesyce polycarpa (Benth, Mills). small seeded spurge RSA 1981 Chamaesyce polycarpa (Benth, Mills). small seeded spurge RSA 1981 Chamaesyce polycarpa (Benth, Mills). small seeded spurge RSA 1981 Chamaesyce polycarpa (Benth, Mills). small seeded spurge RSA 1981 Chamaesyce polycarpa (Benth, Mills). small seeded spurge RSA 1981 Chamaesyce polycarpa (Benth, Mills). small seeded spurge RSA 1981 Chamaesyce polycarpa (Benth, Mills). small seeded spurge RSA 1981 Chamaesyce serpens (Kunth) Small* creeping spurge RSA 1981 Croton californicus Mull. Arg. californic aroton POM,RSA 1989 Croton californica Mull. A			· · · · · · · · · · · · · · · · · · ·	
Salsola tragus L.*         Russian thistle         RSA         1980           Suaeda calceoliformis (Hook.) Moq         horned seablite         Gustafson 1981         R           Suaeda californica S. Watson         California seablite         Gustafson 1981         R           Suaeda taxifolia (Standl.) Standl.         woolly sea-blite         POM,RSA         1901           Cleomaceae         Spiderflower Family         Peritoma arborea (Nutt.) H.H. Iltis         bladderpod         DS,POM         1899           Convolvulaceae         Morning-Glory Family         Family         Family         Family           Convolvulus arconstegia (Greene) Brummit ssp. cyclostegia         (House) Brummit         coast morning glory         RSA         1981           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia         (House) Brummit         coast morning glory         RSA         1981           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia         (House) Brummit         coast morning glory         RSA         1981           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia         coast morning glory         RSA         1981           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia         coast morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         ocast morning glory         RSA		· ·		
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Suaeda caleeoliformis (Hook.) Moq         horned seablite         Henrickson 1991         R           Suaeda californica S. Watson         California seablite         Gustafson 1981         R           Suaeda taxifolia (Standl.) Standl.         woolly sea-blite         POM,RSA         1901           Cleomacea         Spiderflower Family         Peritoma arborea (Nutt.) H.H. Iltis         bladderpod         DS,POM         1899           Convolvulaceae         Calystegia macrostegia (Greene) Brummit ssp. cyclostegia         (House) Brummit         Coast morning glory         RSA         1981           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia         coast morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         beach morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         coast morning glory         RSA         1930           Cressat rustillensis Kunth         alkali weed         POM,RSA,UCR         1901           Cuscuta californica Hook. & Arn.         chaparral dodder         RSA         1981           Cuscuta californica Hook. & Arn.         large-seeded dodder         RSA         1981           Cuscuta californica Hook. & Arn.         salt dodder         RSA,UC         1902           Dichondra occidentalis House         western dichondr	Salsola tragus L.*	Russian thistle		1980
Suaeda californica S, Watson         California seablite         Gustafson 1981         R           Suaeda taxifolia (Standl.) Standl.         woolly sea-blite         POM,RSA         1901           Cleomaceae         Spiderflower Family         Peritoma arborea (Nutt.) H.H. Iltis         bladdeepod         DS,POM         1899           Convolvulaceae         Morning-Glory Family         Family         Family           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia (House) Brummit         coast morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         beach morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         orchard morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         orchard morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         orchard morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         orchard morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         orchard morning glory         RSA         1981           Cuscuta salina Engelm         alkali weed         POM,RSA,UCR         1901           Cuscuta salina Engelm         salt dodder         RSA,UC         1902           Crassu	Suaeda calceoliformis (Hook ) Moa	horned seablite		R
Suaeda taxifolia (Standl.) Standl.         woolly sea-blite         POM,RSA         1901           Cleomaceae         Spiderflower Family           Peritom arborea (Nutt.) H.H. Iltis         bladdecpod         DS,POM         1899           Convolvulaceae         Tomoring-Glory         Family           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia (House) Brummit         coast morning glory         RSA         1981           Calystegia soldamella (L.) R.Br.         beach morning glory         RSA         1981           Convolvulus arvensis L.*         orchard morning glory         RSA         1981           Cusuate alligensis Kunth         death dodder         RSA         1981           Cuscuta indecoral Choisy var. indecoral         gente				
Cleomaceae         Spiderflower Family           Peritoma arborea (Nutt.) H.H. Iltis         bladdecpod         DS,POM         1899           Convolvulaceae         Family         Family           Calystegia macrostegia (Greene) Brummit ssp. cyclostegia (House) Brummit         coast morning glory         RSA         1981           Calystegia soldanella (L.) R.Br.         beach morning glory         RSA         1930           Convolvulus arvensis L.*         orchard morning glory         RSA         1930           Cressa truxillensis Kunth         alkali weed         POM,RSA,UCR         1901           Cuscuta californica Hook. & Arn.         chaparral dodder         RSA         1981           Cuscuta campestris Yunck         field dodder         RSA         1981           Cuscuta campestris Yunck         field dodder         RSA,UC         1902           Dichondra occidentalis House         western dichondra         Henrickson 1991         R           Crassulaceae         Stonecrop Family         R           Crassulac connata (Ruiz & Pav.) A. Berger         pygmy-weed         POM,RSA         1901           Dudleya lanceolata (Nutt.) Britton & Rose         lance leaf liveforever         POM         1901           Cueurbitaceae         Guruf Family         RSA         1981				
Peritoma arborea (Nutt.) H.H. Iltis   bladderpod   Morning-Glory   Family		•	1 0111,11011	1701
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Calystegia soldanella (L.) R.Br.  Canvolvulus arvensis L.*  orchard morning glory  Cressa truxillensis Kunth  alkali weed  POM,RSA,UCR  1901  Cuscuta californica Hook. & Arn.  chaparral dodder  RSA  1981  Cuscuta indecora Choisy var. indecora  large-seeded dodder  RSA  1981  Cuscuta salina Engelm  Cuscuta salina Engelm  Salt dodder  RSA,UC  1902  Dichondra occidentalis House  Crassulaceae  Stonecrop Family  Crassula comnata (Ruiz & Pav.) A. Berger  Dudleya lanceolata (Nutt.) Britton & Rose  Lince leaf liveforever  Cucurbitaceae  Cuturbita foetidissima Kunth.  Euphorbiaceae  Cucurbita foetidissima Kunth.  Euphorbiaceae  Chamaesyce albomarginata (Torr. & A. Gray) Small  Chamaesyce polycarpa (Benth.) Millsp.  Craton californicus Mull. Arg.  California croton  POM,RSA  1981  Chamaesyce serpens (Kunth) Small*  creeping Spurge  RSA  1980  Croton setigerus Hook.  Euphorbia peplus L.*  petty Spurge  RSA  1981  Euphorbia virgata Waldst. & Kit.*  leafy spurge  Henrickson 1991  R  1994  RSA  1994  Henrickson 1991  R  Corchard morning glory  RSA  1981  RSA  1981  RSA  1981  Chamaesyce serpens (Kunth) Small*  Creeping Spurge  RSA  1981  Chamaesyce serpens (Kunth) Small*  Creeping Spurge  RSA  1980  Croton setigerus Hook.  Euphorbia terracina L.*  Euphorbia virgata Waldst. & Kit.*			DCA	1001
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Euphorbia virgata Waldst. & Kit.* leafy spurge Henrickson 1991 R				
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Ricinus communis L.* castor bean RSA,UCR 1981	1	, , ,		
	Ricinus communis L.*	castor bean	RSA,UCR	1981

Table 1. Continued.

Table 1.	Continued.		
Fabaceae	Legume Family		
Acacia baileyana F. Muell.*	Cootamundra wattle	RSA	1981
Acacia cyclops G. Don*	western coastal wattle	RSA,UCR Gustafson 1981,	1996
Acacia dealbata Link*	silver wattle	Henrickson 1991	R
Acacia longifolia (Andrews) Willd.*	Sydney golden wattle	Henrickson 1991	R
Acacia neriifolia A. Cunn. ex Benth*	black wattle American bird's foot	Henrickson 1991	R
Acmispon americanus (Nutt.) Rydb. var. americanus	trefoil deerweed, California	RSA	1980
Acmispon glaber (Vogel) Brouillet	broom	RSA	1980
Acmispon heermannii (Durand & Hilg.) Brouillet	Heermann's lotus	UC	1902
Acmispon strigosus (Nutt.) Brouillet	strigos lotus	RSA Gustafson 1981,	1981
Albizia distachya J.F. Macbr.*	Australian albizia	Henrickson 1991	R
Albizia lophantha (Willd.) Benth.*	plume acacia	CDA,RSA	1981
Astragalus pycnostachyus A. Gray var. lanosissimus (Rydb.) Munz & McBurney	Ventura marsh milk vetch	NY,POM,RSA,UC	1882
Astragalus tener A. Gray var. titi (Eastw.) Barneby	coastal dunes milk vetch	DS	1891
Asirugulus tener A. Gray var. iii (Lastw.) Barneby	Santa Barbara	DS	1071
Astragalus trichopodus (Nutt.) A. Gray Astragalus trichopodus (Nutt.) A. Gray var. lonchus (M.E.	milkvetch Santa Barbara	Henrickson 1991	R
Jones) Barneby	milkvetch	DS	1901
Hoffmanseggia glauca (Ortega) Eifert	pig-nut, hog potato	Henrickson 1991	R
Lupinus bicolor Lindl.	miniature lupine	POM	1981
Lupinus chamissonis Eschsch.	beach blue lupine, dune lupine	POM,RSA	1917
Lupinus excubitus M.E. Jones var. hallii	grape soda lupine	RSA,UCR	1980
Lupinus longifolius (S. Watson) Abrams	longleaf bush lupine	POM	1901
Lupinus succulentus K. Koch	arroyo lupine	RSA	1981
Lupinus truncatus Nutt.	blunt leaved lupine	POM,RSA	1899
Medicago polymorpha L.*	California burclover	POM	1981
Melilotus albus Medik.*	white sweetclover	POM	1980
Melilotus indicus (L.) All.*	sourclover	POM,UCD,UCR	1978
Phaseolus limensis Macfad.*	lima bean	POM	1981
Spartium junceum L.*	Spanish broom	Henrickson 1991	R
Frankeniaceae	Frankenia Family		
Frankenia salina (Molina) I.M. Johnst.	alkali heath	POM,RSA	1917
Geraniaceae	Geranium Family		
Erodium botrys (Cav.) Bertol.*	broad leaf filaree	RSA,UCR Gustafson 1981,	1981
Erodium cicutarium (L.) Aiton*	redstem filaree	Henrickson 1991	R
Erodium moschatum (L.) Aiton*	greenstem filaree	UCR	1996
Grossulariaceae	Gooseberry Family		
Ribes malvaceum Sm.	chaparral currant	RSA	1981
Hamamelidaceae	Witch-Hazel Family		
Liquidambar styraciflua L.*	sweet-gum	Henrickson 1991	R
Juglandaceae	Walnut Family southern California		
Juglans californica S. Watson	black walnut	FWM	R
Juglans regia L.*	English walnut	Henrickson 1991	R

Table 1. Continued.

Lamiaceae	Mint Family		
Lycopus americanus W.P.C. Barton	bugleweed	UC	1902
Marrubium vulgare L.*	horehound	RSA	1981
Mentha x piperita L.*	peppermint	UC	1902
Mentha x smithiana R.A. Graham*	redstem mint	POM	1902
Salvia apiana Jeps.	white sage	FWM	R
Salvia carduacea Benth.	thistle sage	POM,UCR	1901
Salvia columbariae Benth.	chia	POM,UCR	1901
Salvia leucophylla Greene	purple sage	FWM	R
Stachys ajugoides Benth.	hedge-nettle	POM,UC	1917
Stachys albens A. Gray	white hedge-nettle	POM,RSA,UC	1902
Stachys bergii G.A. Mulligan & D.B.Munro	Berg's hedge-nettle	UC	1932
Lythraceae	Loosestrife Family		
Lythrum californicum Torr. & A. Gray	California loosestrife	POM,RSA,UC	1902
Lythrum hyssopifolia L.*	hyssop loosestrife	RSA,UCR	1980
Malvaceae	Mallow Family		
Malacothamnus fasciculatus (Torr. & A. Gray) Greene	chaparral mallow	RSA	1981
Malva nicaeensis All.*	bull mallow	POM	1902
Malva parviflora L.*	cheeseweed	RSA,UC	1932
Malva pseudolavatera Webb & Berthel.*	Cretan mallow	RSA,UCR	1981
Malvella leprosa (Ortega) Krapov.	alkali-mallow	POM,RSA,UCR	1917
	Miner's Lettuce	, ,	
Montiaceae	Family		
Calandrinia ciliata (Ruiz & Pav.) DC.	red maids	UC	1897
Myrsinaceae	Myrsine Family		
Anagallis arvensis L.*	scarlet pimpernel	RSA	1980
Myrtaceae	Myrtle Family		
Eucalyptus camaldulensis Dehnh.*	red gum, river red gum	RSA	1981
Eucalyptus globulus Labill.*	blue gum	Henrickson 1991	R
Eucalyptus globulus Labill.*  Eucalyptus tereticornis Sm.*	blue gum forest red gum	Henrickson 1991 Gustafson 1981	
Eucalyptus tereticornis Sm.*	forest red gum	Gustafson 1981	R
Eucalyptus tereticornis Sm.* Eucalyptus viminalis Labill.*	forest red gum manna gum		
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Eucalyptus tereticornis Sm.* Eucalyptus viminalis Labill.* Nyctaginaceae  Abronia maritima S. Watson Abronia umbellata Lam. Oleaceae Fraxinus latifolia Benth. Fraxinus velutina Torr.  Onagraceae Camissoniopsis bistorta (Torr. & A. Gray) W.L. Wagner & Hoch Camissoniopsis cheiranthifolia (Spreng.) W.L. Wagner & Hoch ssp. suffruticosa  Camissoniopsis lewisii (P.H. Raven) W.L. Wagner & Hoch	forest red gum manna gum Four O' Clock Family red sand-verbena beach sand-verbena Olive Family Oregon ash velvet ash Evening-Primrose Family California sun cup beach evening-primrose Lewis' evening primrose	Gustafson 1981 RSA  POM POM,RSA  UC RSA  POM,RSA,UC POM,RSA,UCD POM	R 1981 1901 1901 1932 1981 1897 1901 1899
Eucalyptus tereticornis Sm.* Eucalyptus viminalis Labill.* Nyctaginaceae  Abronia maritima S. Watson Abronia umbellata Lam. Oleaceae Fraxinus latifolia Benth. Fraxinus velutina Torr.  Onagraceae Camissoniopsis bistorta (Torr. & A. Gray) W.L. Wagner & Hoch Camissoniopsis cheiranthifolia (Spreng.) W.L. Wagner & Hoch ssp. suffruticosa  Camissoniopsis lewisii (P.H. Raven) W.L. Wagner & Hoch Camissoniopsis micrantha (Spreng.) W.L. Wagner & Hoch	forest red gum manna gum Four O' Clock Family red sand-verbena beach sand-verbena Olive Family Oregon ash velvet ash Evening-Primrose Family California sun cup beach evening-primrose Lewis' evening primrose miniature suncup	Gustafson 1981 RSA  POM POM,RSA  UC RSA  POM,RSA,UC POM,RSA,UCD POM RSA	R 1981  1901 1901  1932 1981  1897 1901 1899 1981
Eucalyptus tereticornis Sm.* Eucalyptus viminalis Labill.* Nyctaginaceae  Abronia maritima S. Watson Abronia umbellata Lam. Oleaceae Fraxinus latifolia Benth. Fraxinus velutina Torr.  Onagraceae Camissoniopsis bistorta (Torr. & A. Gray) W.L. Wagner & Hoch Camissoniopsis cheiranthifolia (Spreng.) W.L. Wagner & Hoch ssp. suffruticosa  Camissoniopsis lewisii (P.H. Raven) W.L. Wagner & Hoch Camissoniopsis micrantha (Spreng.) W.L. Wagner & Hoch Camissoniopsis micrantha (Spreng.) W.L. Wagner & Hoch Epilobium campestre (Jeps.) Hoch & W.L. Wagner	forest red gum manna gum Four O' Clock Family red sand-verbena beach sand-verbena Olive Family Oregon ash velvet ash Evening-Primrose Family California sun cup beach evening-primrose Lewis' evening primrose miniature suncup smooth boisduvalia	Gustafson 1981 RSA  POM POM,RSA  UC RSA  POM,RSA,UC POM,RSA,UCD POM RSA POM	R 1981  1901 1901  1932 1981  1897 1901 1899 1981 1901

Table 1. Continued.

Table 1.	Continued.		
Orobanchaeae	<b>Broomrape Family</b>		
Castilleja exserta (A. Heller) T.I. Chuang & Heckard ssp.	manumala avvilla alazzan	POM,RSA	1901
exserta	purple owl's-clover		
Chloropyron maritimum (Benth.) A. Heller ssp. maritimum <sup>h</sup>	salt marsh bird's beak	DS,POM	1901
Oxalidaceae	Oxalis Family		
Oxalis pilosa Nutt.	hairy wood sorrel	Henrickson 1991	R
Oxalis pes-caprae L.*	Bermuda buttercup	Gustafson 1981, Henrickson 1991	R
Papaveraceae	Poppy Family		
Eschscholzia californica Cham.	California poppy	Henrickson 1991	R
Papaver heterophyllum (Benth.) Greene	wind poppy	RSA	1899
Plantaginaceae	Plantain Family		
Antirrhinum coulterianum A. DC.	Coulter's snapdragon	POM	1911
Antirrhinum nuttallianum A. DC. ssp. nuttalianum	Nuttall's snapdragon	UC	1902
Plantago erecta E. Morris	California plantain	POM	1899
Plantago lanceolata L.*	English plantain	POM,RSA	1902
Plantago major L.*	common plantain	RSA	1980
Platanaceae	Sycamore Family		
Platanus racemosa Nutt.	western sycamore	FWM	R
Polygonaceae	Buckwheat Family		
	San Fernando Valley		
Chorizanthe parryi Wats. var. fernandina (Wats.) Jeps.	spineflower	DS	1901
Eriogonum fasciculatum Benth.	California buckwheat coastal California	RSA Gustafson 1981.	1981
Eriogonum fasciculatum Benth. var. fasciculatum	buckwheat	Henrickson 1991	R
Eriogonum gracile Benth.	slender buckwheat	POM.RSA	1901
Eriogonum parvifolium Sm.	seacliff wild buckwheat	RSA,UC	1902
Lastarriaea coriacea (Goodman) Hoover	leather-spineflower	POM	1901 1899
Mucronea californica Benth.	California spineflower	DS,POM	
Persicaria hydropiperoides (Michx.) Small	false waterpepper willow weed	POM,UC RSA	1901 1930
Persicaria lapathifolia (L.) Gray Persicaria maculosa Gray*	lady's thumb	RSA	1980
Polygonum aviculare L.*	knotweed, knotgrass	CDA,RSA	1930
Rumex conglomeratus Murray*	clustered dock	RSA	1930
Rumex crispus L.*	curly dock	RSA	1930
Rumex fueginus Phil.	golden dock	POM,RSA	1902
Rumex salicifolius Weinm.	willow dock	RSA	1981
Ranunculaceae	Buttercup Family		
Clematis ligusticifolia Nutt.	western virgin's bower	RSA	1981
Delphinium parryi A. Gray	larkspur	DS	1901
Delphinium parryi A. Gray ssp. maritimum (Davidson) M. J.	1		
Warnock	maritime larkspur	DS	1901
Rosaceae	Rose Family		_
Heteromeles arbutifolia (Lindl.) M. Roem.	toyon	Henrickson 1991	R
Horkelia cuneata Lindl. var. sericea A. Gray	Kellogg's horkelia	Abrams 1902	R
Potentilla anserina L. ssp. pacifica (Howell) Rousi	Pacific silverweed	POM,UC,UCR	1900
Potentilla multijuga Lehm.	Ballona cinquefoil	POM	1890
Pyracantha cf. crenulata (D. Don) M. Roem.*	Himalayan firethorn	Henrickson 1991	R
Rosa californica Cham. & Schltdl.	California rose	Henrickson 1991	R
Rubus ursinus Cham. & Schltdl.	California blackberry	FWM	R

Table 1. Continued.

Table 1.	Continued.		
Rubiaceae	Madder Family		
Galium angustifolium A. Gray	narrowly leaved	POM	1980
	bedstraw		
Salicaceae	Willow Family		
Populus fremontii S. Watson ssp. fremontii	Fremont cottonwood	POM	1981
Salix exigua Nutt. var. exigua	narrow-leaved willow	FWM	R
Salix goodingii C.R. Ball	Gooding's black willow	FWM	R
Salix laevigata Bebb	red willow	DS,POM	1901
Salix lasiolepis Benth.	arroyo willow	DS,POM,UC	1932
Scrophulariaceae	Figwort Family		
Myoporum laetum G. Forst.*	myoporum	RSA	1981
Scrophularia californica Cham. & Schltdl.	California figwort	RSA	1930
Verbascum virgatum Stokes*	wand mullein	RSA	1981
Solanaceae	Nightshade Family		
Datura wrightii Regel	Jimson weed	RSA	1980
Lycium ferocissimum Miers*	African boxthorn	CDA,RSA	1978
Lycopersicum esculentum Mill.*	tomato	RSA	1981
Nicotiana clevelandii A. Gray	Cleveland's tobacco	POM,RSA	1901
Nicotiana glauca Graham*	tree tobacco	RSA	1980
Petunia parviflora Juss.	wild petunia	RSA	1981
	American black		
Solanum americanum Miller	nightshade	RSA	1981
Solanum douglasii Dunal	Douglas' nightshade	POM,RSA,UCR	1901
Solanum nigrum L.*	black nightshade	Gustafson 1981, Henrickson 1991	R
Solanum physalifolium Rusby var. nitidibaccatum (Bitter)	olden inginishade	Tremrekson 1991	10
Edmonds*	nightshade	RSA	1981
Solanum xanti A. Gray	chaparral nightshade	Henrickson 1991	R
Tamariscaceae	Tamarisk Family		
Tamarix ramosissima Ledeb.*	saltcedar	Henrickson 1991	R
Ulmaceae	Elm Family		
III*	Chinese elm, lacebark	Henrickson 1991	R
Ulmus parvifolia Jacq.*	elm	Henrickson 1991	K
Urticaceae	Nettle Family	DOM DCA	1902
Urtica dioica L. ssp. holosericea (Nutt.) Thorne	hoary nettle	POM,RSA	
Urtica urens L.*	dwarf nettle	RSA	1981
Verbenaceae	Vervain Family	DOMILIC	1002
Phyla lanceolata (Michx.) Greene	lance leaf lippia	POM,UC	1902
Verbena bracteata Lag. & Rodr.	bracted verbena	POM	1902
Verbena lasiostachys Link	western verbena	RSA RSA	1981
Verbena lasiostachys Link var. lasiostachys	western vervain	KSA	1930
Zygophyllaceae	Caltrop Family	D.C.A.	1000
Tribulus terrestris L.*	puncture vine	RSA	1980
MONOCOTS	Control Plant Familia		
Agavaceae	Century Plant Family	EWA	D
Hesperoyucca whipplei (Torr.) Trel.	chaparral yucca Water-Plantain	FWM	R
Alismataceae	Family		
Sagittaria montevidensis Cham. & Schltdl ssp. calycina	·		
(Engelm.)	arrowhead	RSA	1981
Amaryllidaceae	Amaryllus Family	D.C.A	1001
Narcissus tazetta L.*	paper white	RSA	1981

Table 1. Continued.

Table 1.	ontinuca.		
Araceae	Arum Family		
Lemna minuta Kunth	duckweed	RSA	1930
Arecaeae	Palm Family		
Phoenix canariensis Chabaud*	Canary Island palm	RSA	1981
Phoenix dactylifera L.*	date palm	MEC 2005	R
Washingtonia robusta H. Wendl.*	fan palm	Henrickson 1991	R
Cyperaceae	Sedge Family		
Bolboschoenus maritimus (L.) Palla	saltmarsh bulrush	DS,RSA	1904
Bolboschoenus maritimus (L.) Palla ssp. paludosus (A. Nelson) T. Koyama	saltmarsh bulrush	RSA,UCR Gustafson 1981,	1981
Bolboschoenus robustus (Pursh) Sojak	seacoast bulrush black creeper, freeway	Henrickson 1991	R
Carex praegracilis W. Boott	sedge	CAS,DS,POM	1889
Cyperus eragrostis Lam.	tall flatsedge	RSA,SD,UCR	1980
Cyperus esculentus L.	yellow nutgrass	RSA Gustafson 1981,	1981
Cyperus involucratus Rottb.*	umbrella sedge	Henrickson 1991	R
Eleocharis macrostachya Britton	creeping spike rush	RSA	1930
Eleocharis montevidensis Kunth	sand spikerush Olney's three-square	DS,RSA	1904
Schoenoplectus americanus (Pers.) Schinz & R. Keller	bulrush	DS,RSA	1900
Schoenoplectus californicus (C.A. Mey.) Sojak	southern bulrush	DS,RSA	1901
Iridaceae	Iris Family		
Iris pseudacorus L.*	horticultural iris western blue-eyed-	RSA	1981
Sisyrinchium bellum S. Watson	grass	FWM	R
Juncaceae	Rush Family		
Juncus acutus L.	spiny rush	DS Gustafson 1981,	1901
Juncus balticus Willd. subsp. ater (Rydb.) Snogerup	Baltic rush	Henrickson 1991	R
Juncus bufonius L.	toad rush	RSA	1981
Juncus mexicanus Willd.	Mexican rush	RSA	1981
Juncus textilis Buchenau	mat or basket rush	RSA	1930
Poaceae	Grass Family	Gustafson 1981,	
Agrostis stolonifera L.*	creeping bent	Henrickson 1991	R
Arundo donax L.*	giant reed	RSA	1981
Avena barbata Link*	slender wild oat	Henrickson 1991	R
Avena fatua L.*	wild oat	RSA	1981
Brachypodium distachyon (L.) P. Beauv.* Bromus carinatus Hook. & Arn. var. marginatus (Steud.)	false brome	Henrickson 1991	R
Barkworth & Anderton	mountain brome	Gustafson 1981	R
Bromus catharticus Vahl var. catharticus*	rescue grass	POM	1981
Bromus diandrus Roth*	ripgut grass	POM	1930
Bromus hordeaceus L.*	soft chess	POM	1981
Bromus madritensis L. ssp. rubens (L.) Husn.*	red brome	POM Gustafson 1981,	1901
Cortaderia jubata (Lem.) Stapf*	purple pampas grass Uruguayan pampas	Henrickson 1991	R
Cortaderia selloana (Schult. & Schult. f.) Asch. & Graebn.*	grass	RSA	1980
Cynodon dactylon (L.) Pers.*	Bermuda grass	RSA	1930
Digitaria sanguinalis (L.) Scop.*	hairy crab grass	POM	1981
Distichlis littoralis (Engelm.) H.L. Bell & Columbus	shore grass	Henrickson 1991	R
Distichlis spicata (L.) Greene	salt grass	UC	1902

Table 1 Continued

Table 1.	Continued.		
Echinochloa crus-galli (L.) P. Beauv.*	barnyard grass	POM	1981
Ehrharta erecta Lam.*	panic veldt grass	POM,UCR	1981
Elymus condensatus J. Presl.	giant wild-rye	Henrickson 1991	R
Elymus glaucus Buckley	western wild-rye	POM	1901
Elymus trachycaulus (Link) Shinn. ssp. trachycaulus	slender wheatgrass	Abrams 1902	R
Elymus triticoides Buckley	beardless wild rye	POM	1901
Festuca arundinacea Schreb.*	tall fescue	Henrickson 1991	R
Festuca myuros L.*	rattail sixweeks grass	POM	1913
Festuca perennis (L.) Columbus & J.P. Sm.*	rye grass	POM,RSA,UCR	1902
Festuca tementula (L.) Columbus & J.P. Sm.*	Darnel ryegrass	POM	1901
Hainardia cylindrica (Willd.) Greuter*	barb grass	POM,UCD	1901
Hordeum brachyantherum Nevski	meadow barley	POM	1930
Hordeum murinum L. ssp. leporinum (Link) Arcang.*	hare barley	POM	1981
Hordeum intercedens Nevski	bobtail barley	POM	1901
77 7 7 7 7 7	1 1	Gustafson 1981,	
Hordeum vulgare L.*	barley	Henrickson 1991	R
Koelaria macrantha (Ledeb.) Schult.	June grass	POM	1901
Lamarckia aurea (L.) Moench* Leptochloa fusca (L.) Kunth ssp. uninervia (J. Presl) N.	goldentop	Henrickson 1991	R
Snow	Mexican sprangletop	POM	1981
Melica imperfecta Trin.	little California melica	POM	1901
Parapholis incurva (L.) C.E. Hubb.*	sickle grass	POM	1981
Paspalum dilatatum Poir.*	dallis grass	POM	1980
Pennisetum setaceum (Forssk.) Chiov.*	crimson fountain grass Mediterranean canary	Henrickson 1991	R
Phalaris minor Retz.*	grass	UC	1932
Phalaris paradoxa L.*	Hood canary grass	POM	1981
Poa annua L.*	annual blue grass	RSA Gustafson 1981,	1981
Polypogon monspeliensis (L.) Desf.*	annual beard grass	Henrickson 1991	R
Polypogon viridis (Gouan) Breistr.*	water beard grass	RSA Gustafson 1981,	1930
Schismus barbatus (L.) Thell.*	Mediterranean grass	Henrickson 1991	R
Setaria parviflora (Poir.) Kerguélen	knotroot bristle grass	RSA	1981
Sorghum halepense (L.) Pers.*	Johnson grass	UC	1902
Stenotaphrum secundatum (Walter) Kuntze*	Saint Augustine grass	RSA	1981
Stipa cernua Stebbins & Love	nodding needle grass	Henrickson 1991	R
Stipa lepida Hitchc.	foothill needle grass	FWM	R
Stipa miliacea (L.) Hoover var. miliacea*	smilo grass	POM	1981
Stipa pulchra Hitche.	purple needle grass	FWM	R
Ruppiaceae	Ditch-Grass Family		
Ruppia maritima L.	ditch-grass	RSA	1980
Themidaceae	<b>Brodiaea Family</b>		
Dichelostemma capitatum (Benth.) Alph. Wood	blue dicks	Henrickson 1991	R
Typhaceae	Cattail Family		
Sparganium erectum L. ssp. stoloniferum (Grabner) C. Cook			
& M.S. Nicholls	bur reed	RSA,UC	1902
Typha domingensis Pers.	southern cattail	RSA	1981
Typha latifolia L.	broad-leaved cattail	RSA	1980

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