

## **Island Specialists: Shared Flora of the Alta and Baja California Pacific Islands**

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## ISLAND SPECIALISTS: SHARED FLORA OF THE ALTA AND BAJA CALIFORNIA PACIFIC ISLANDS

Sarah E. Ratay<sup>1</sup>, Sula E. Vanderplank<sup>2</sup>, and Benjamin T. Wilder<sup>3</sup>

**ABSTRACT.**—The floristic connection between the mediterranean region of Baja California and the Pacific islands of Alta and Baja California provides insight into the history and origin of the California Floristic Province. We present updated species lists for all California Floristic Province islands and demonstrate the disjunct distributions of 26 taxa between the Baja California and the California Channel Islands. These 26 plant taxa are found among the 16 Pacific islands without occurring on the intervening mainland of Alta California. Separate species lists for each island group (8 California Channel Islands and 8 Baja California Islands) were compiled. These lists were compared to the mainland California flora to identify species that occur on the California Islands and either the Baja California Pacific Islands or the mediterranean region of the Baja California Peninsula, but not the mainland of Alta California. This first compilation of the flora of the Baja California Islands and nomenclatural updates for the Channel Islands provide a platform for future research and conservation planning.

**RESUMEN.**—El grado de conexión florística entre la región mediterránea de Baja California y las Islas del Pacífico de Alta y Baja California proporciona un entendimiento de la historia y el origen de la Provincia Florística de California. Presentamos listados actualizados de especies de todas las islas de la Provincia Florística de California y mostramos la distribución aislada de veintiséis taxones entre la Baja California y las Islas del Canal de California. Identificamos aquellas especies de plantas que se pueden encontrar dentro de las dieciséis islas del Pacífico, pero no se encuentran en la península de Alta California. Con este objetivo, recopilamos listados separados de las especies que habitan en cada grupo de islas (las ocho Islas del Canal de California y las ocho islas de Baja California). Estos listados se compararon con la flora existente en la península de California con el fin de identificar aquellas especies que se encuentran en las islas de California, y tanto en las Islas del Pacífico de Baja California como en la región mediterránea de la Península de Baja California, pero *no* en la península de Alta California. La primera recopilación de flora de las Islas de Baja California y actualizaciones nomenclaturales en las Islas del Canal, proporcionan una plataforma para futuras investigaciones y planes de conservación.

The islands of the California Floristic Province (CFP) are an important component of one of the world's great biodiversity hotspots (Myers et al. 2000). The CFP has commonly been referred to as an environmental island due to its regionally unique mediterranean-type climate, isolation (via oceanic and orographic boundaries), and corresponding globally significant levels of endemism. The plant community has had ample time to evolve since the emergence of wet winters and dry summers at least 5–10 Mya (Axelrod 1973) and perhaps earlier (Ackerly 2009, Keeley et al. 2011). The remarkable diversity and endemism of the CFP has been attributed to relative climatic stability during glacial-interglacial transitions of the Pleistocene (Lancaster and Kay 2012, Sniderman et al. 2013). The antiquity and distinctiveness of the California flora are

well-recognized attributes that are accentuated on the islands of the Californias.

The degree of floristic similarity of 16 offshore islands, and their apparent role as refugia for species once present on the mainland, has been a persistent biogeographical puzzle. The CFP includes 16 islands from the adjacent coast of Alta and Baja California and extends south to the 28th parallel, including the CFP vegetation found on Cedros and Guadalupe Islands (Raven and Axelrod 1978, Moran 1996, Oberbauer 2002a). The CFP has an increasing gradient of aridity from north to south, but vegetation distributions are heavily influenced by fog presence; this fog provides additional moisture and reduces radiant loadings, significantly changing conditions for plants (Dawson 1998, Fischer et al. 2008, Vanderplank 2013). Physical data suggest that ocean currents have

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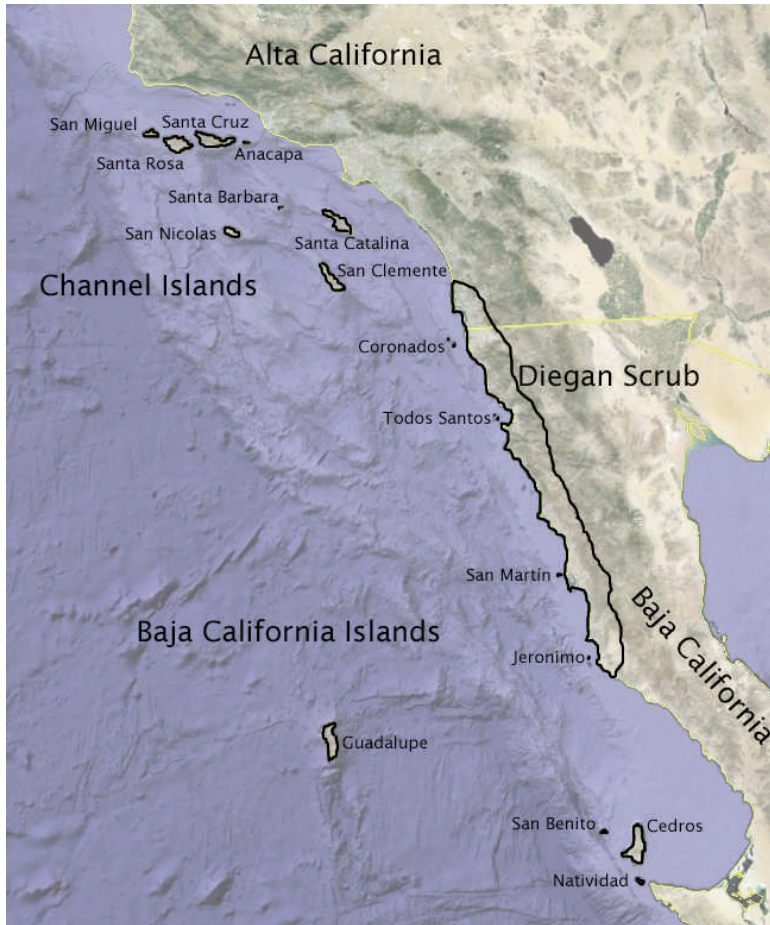


Fig. 1. California Channel and Baja California Pacific Islands with Diegan Scrub as defined by Axelrod (1978). Map by B.T. Wilder, adapted from Google Earth™ imagery.

been stable for millions of years (Jacobs et al. 2004), which indicates the presence of fog during the development of the CFP.

Within the large number of plant species on the CFP islands and the mainland of Alta and Baja California is the occurrence of disjunct Baja California taxa on the California Channel Islands. These species are seen today only on the CFP islands and a distinct portion of the California mainland termed the Diegan Scrub, the San Diego region southward into coastal northwestern Baja California (Fig. 1; Axelrod 1978). However, the number and identity of this group of disjunct species has remained unknown.

To identify the species that define this pattern, we present (1) the first compiled checklist of the 8 CFP Baja California Islands, (2)

nomenclatural updates to the flora of the 8 California Channel Islands, and (3) the plants that occur on the California Channel Islands and in the Diegan Scrub but *not* the rest of mainland California, hereafter referred to as “exemplar taxa.”

## METHODS

### Development of Checklists

We assembled all existing species checklists for the 2 island groups (Alta California and Baja California) into 2 lists, then compared those lists with the flora of the California Floristic Province for both mainland Alta and Baja California to generate the list of exemplar taxa. The nomenclatural updates presented here are based on our best understanding of the

island floras at the date of publication and follow the models of the sources indicated below for the 2 lists. Species now thought to be extirpated from the islands are denoted by an ampersand (&). Unvouchered taxa (including reports, photo vouchers, and personal communications) are indicated by a question mark (?). Nonnative species are indicated by an asterisk (\*). When a subspecies was not recorded for all the islands and some ambiguity remains, the taxon is recorded at the species level only. Exotic species that were planted or are not naturalized (e.g., *Nerium oleander*) were deleted from checklists.

### Baja California Islands Checklist

The most recent species lists for each of the 8 Baja California Islands (Appendix 1; Coronados, Todos Santos, San Martín, Jeronimo, Guadalupe, San Benito, Cedros, and Natividad) were compiled from the following data sources:

- Coronados—Oberbauer 2002b
- Todos Santos—Junak and Philbrick 1994a
- San Martín—Junak and Philbrick 1994b
- Guadalupe—Moran 1996, Rebman 2006, Rebman et al. 2007
- San Benito—Junak and Philbrick 2002b, Rebman 2007a
- Cedros—Oberbauer 1987, Rebman 2007b
- Natividad—Junak and Philbrick 2002a

The list of Jeronimo island flora, consisting of 8 taxa, was provided via personal communication from Steve Junak. We verified mainland Baja California flora distributions with the unpublished data of Jon Rebman and Bart O'Brien (personal communication 2013). Several taxa were added to the checklists based on recent collections, herbarium specimens recently encountered, and recent reports by Sula Vanderplank, Jon Rebman, and Steve Junak; these taxa are indicated by footnotes. The taxonomy for this checklist follows the Checklist of Baja California Plants in preparation by Jon Rebman.

### California Channel Islands Checklist

The updated flora of the 8 California Channel Islands (Appendix 2; San Clemente, San Nicolas, Santa Catalina, Santa Barbara, Santa Rosa, Santa Cruz, Anacapa, and San Miguel) is based on the master checklist compiled by Gary Wallace (1985). We included published updates to individual island floras found in the

National Park Service checklist from Junak et al. (1997) for San Miguel, Santa Rosa, Santa Cruz, Anacapa, and Santa Barbara islands. For San Clemente Island we included updates from Ross et al. (1996) and for San Nicholas Island updates from Junak (2008). Additional taxa and island records are included based on recent collections on Santa Catalina Island by Sarah Ratay, observations and collections on San Clemente Island by Emily Howe (Soil Ecology and Restoration Group, SDSU), and herbarium specimens found in the Consortium of California Herbaria (CCH 2014), which are listed in footnotes. The nomenclatural revision of this checklist is consistent with taxonomy of the new Jepson Manual (Baldwin et al. 2012) through the use of the dynamic concordance tool provided on the Jepson e-flora website (Jepson Flora Project 2013). This checklist was developed to identify distribution patterns in the flora, and though the nomenclature has been updated, we have not confirmed identifications of questionable herbarium specimens, nor have we diligently pursued the lowest taxonomic rank beyond the published sources. We are also aware of additional updates to the flora of many of the Channel Islands in process by Steve Junak, including publication of the flora of Catalina Island; Junak's updates are not included here.

### Exemplar Taxa

The identification of exemplar taxa was generated through a comparison of the 2 newly generated island checklists (Appendixes 1, 2) with the Jepson Manual (Baldwin et al. 2012) and the inventory of rare and endemic plants of CFP Baja California (O'Brien et al. 2014). A large number of species from CFP Baja California extend just slightly into southern California and are considered near-endemic to Baja California (O'Brien et al. 2014). As such, we include the near-endemic species of CFP Baja California as 'absent' in the mainland of Alta California (with the exception of *Crossosoma californicum*, which occurs on the Palos Verde Peninsula, and *Euphorbia misera*, which occurs in the South Coast region of California and beyond; Baldwin et al. 2012). These few species are consistent with the concept of Diegan Scrub as proposed by Axelrod (1978). Diegan Scrub is named for its occurrence in southern San Diego County and south into Baja California. It is a coastal scrub, rich in

TABLE 1. The 26 exemplar taxa as they occur on 8 Baja California Pacific Islands and the 8 Channel California Islands.<sup>a</sup> CRPR column provides the California Rare Plant List ranking, and the BC column provides the State of Baja California

Family	Exemplar taxa	Habit	NAT	CED	BEN	GUA	JER	MAR
Apiaceae	<i>Lomatium insulare</i>	Herb				GUA		
Asteraceae	<i>Hazardia cana</i>	Shrub				GUA		
Asteraceae	<i>Senecio lyonii</i>	Shrub			BEN			MAR
Boraginaceae	<i>Phacelia floribunda</i>	Herb				GUA		
Cactaceae	<i>Bergerocactus emoryi</i>	Succulent						MAR
Convolvulaceae	<i>Calystegia macrostegia</i> subsp. <i>macrostegia</i>	Vine				GUA		MAR
Crossosomataceae	<i>Crossosoma californicum</i>	Shrub				GUA		
Euphorbiaceae	<i>Euphorbia misera</i>	Shrub	NAT	CED	BEN	GUA		MAR
Fabaceae	<i>Acmispon argophyllus</i> subsp. <i>argenteus</i>	Shrub				GUA		
Fabaceae	<i>Lupinus guadalupensis</i>	Herb				GUA		
Fabaceae	<i>Trifolium palmeri</i>	Herb				GUA		
Fagaceae	<i>Quercus tomentella</i>	Tree				GUA		
Grossulariaceae	<i>Ribes viburnifolium</i>	Shrub		CED				
Lamiaceae	<i>Salvia brandegeei</i>	Shrub						
Papaveraceae	<i>Eschscholzia ramosa</i>	Herb	NAT	CED	BEN	GUA		MAR
Phmyraceae	<i>Mimulus latifolius</i>	Herb				GUA		
Plantaginaceae	<i>Gambelia speciosa</i>	Shrub				GUA		
Poaceae	<i>Dissanthelium californicum</i>	Herb				GUA		
Polemoniaceae	<i>Gilia nevini</i>	Herb				GUA		
Polemoniaceae	<i>Leptosiphon pygmaeus</i> subsp. <i>pygmaeus</i>	Herb				GUA		
Rhamnaceae	<i>Ceanothus arboreus</i>	Shrub				GUA		
Rhamnaceae	<i>Rhamnus pirifolia</i>	Shrub				GUA		
Rosaceae	<i>Prunus ilicifolia</i> subsp. <i>lyonii</i>	Tree						
Saxifragaceae	<i>Jepsonia malvifolia</i>	Herb				GUA		
Scrophulariaceae	<i>Scrophularia villosa</i>	Shrub				GUA		
Solanaceae	<i>Solanum wallacei</i>	Shrub				GUA		
<b>NUMBER OF SPECIES</b>			<b>2</b>	<b>3</b>	<b>3</b>	<b>21</b>	<b>0</b>	<b>5</b>

<sup>a</sup>Natividad [NAT], Cedros [CED], San Benito [BEN], Guadalupe [GUA], Jeronimo [JER], San Martín [MAR], Todos Santos [TOS], Coronados [COR], San Clemente

succulents, that includes many endemic and near-endemic species from CFP Baja; it also includes the coastal succulent scrub and coastal sage scrub ecoregions (González-Abraham et al. 2010).

## RESULTS

The California Pacific Islands in total contain 1239 unique taxa. The California Islands separately contain 976 taxa and the Baja California Islands 535 taxa. Twenty-six of these taxa have a disjunct occurrence between the Baja California Pacific Islands and the California Channel Islands, absent from Alta California outside the Diegan Scrub (Table 1). These exemplar taxa represent 16 families and 26 unique genera. No one growth form predominates; of the 26 taxa, there are 12 shrubs, 10 herbaceous annuals, 2 trees, 1 vine, and 1 xerophytic succulent (Table 1). Fabaceae is the largest family with 3 species on the exemplar taxa list.

These 26 taxa fall into 6 biogeographic sub-patterns:

- (1) multiple California Channel Islands and Guadalupe Island, 13 taxa
- (2) Guadalupe Island–San Clemente Island only, 4 taxa (*Hazardia cana*, *Leptosiphon pygmaeus* ssp. *pygmaeus*, *Lupinus guadalupensis*, *Phacelia floribunda*)
- (3) Diegan Scrub and the Channel Islands only, 2 taxa (*Prunus ilicifolia* ssp. *lyonii* and *Salvia brandegeei*)
- (4) widespread, 1 taxon (*Eschscholzia ramosa*) occurs on 14 of 16 islands
- (5) certain Channel and Baja California Islands and Diegan Scrub, 4 taxa (*Bergerocactus emoryi*, *Crossosoma californicum*, *Euphorbia misera*, *Ribes viburnifolium*)
- (6) certain Channel and Baja California Islands, 2 taxa (*Calystegia macrostegia* ssp. *macrostegia* and *Senecio lyonii*)

## DISCUSSION

The complex biogeography of the California Floristic Province can be explained in part

Islands are listed left to right by increasing latitude. The Mainland column indicates continental occurrences. The protected rankings.

TOS	COR	Mainland	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG	# ISL	CRPR	BC
		No	CLE	NIC							3	1B.2	1b
		No	CLE								2	1B.2	1b
		Baja only	CLE		CAT						4		2a
		No	CLE								2	1B.2	1b
TOS	COR	Baja & CA	CLE		CAT						5	2.2	4
		No			CAT		ROS	CRU	ANA	MIG	7		2a
		CA only	CLE		CAT						3	1B.2	1b
TOS	COR	Baja & CA	CLE		CAT			CRU			10	2.2	
		No	CLE	NIC	CAT						4		2a
		No	CLE								2	1B.2	1b
		No	CLE	NIC	CAT	BAR			ANA		5	4.2	2a
		No	CLE		CAT		ROS	CRU	ANA		6	4.2	2a
		Baja & CA			CAT						2	1B.2	4
		Baja only					ROS				1	1B.2	1b
TOS	COR	No	CLE	NIC	CAT	BAR	ROS	CRU			13	4.3	2a
		No			CAT			CRU			3	1A	1b
		No	CLE		CAT	BAR					4	1B.2	1b
		No	CLE		CAT						3	1B.2	1a
		No	CLE	NIC	CAT	BAR	ROS	CRU	ANA		8	4.3	2a
		No	CLE								2	1B.2	1b
		No			CAT		ROS	CRU			4		2a
		No	CLE		CAT		ROS	CRU		MIG	6	4.2	2a
		Baja only	CLE		CAT		ROS	CRU	ANA		5		
		No	CLE	NIC	CAT		ROS	CRU			6	4.2	2a
		No	CLE		CAT						3	1B.2	1b
		No			CAT		ROS	CRU			4	1B.1	1b
<b>3</b>	<b>3</b>		<b>20</b>	<b>6</b>	<b>20</b>	<b>4</b>	<b>10</b>	<b>11</b>	<b>5</b>	<b>2</b>		<b>21</b>	<b>24</b>

[CLE], San Nicolas [NIC], Santa Catalina [CAT], Santa Barbara [BAR], Santa Rosa [ROS], Santa Cruz [CRU], Anacapa [ANA], and San Miguel [MIG].

by analyzing unusual floristic patterns seen on the California Pacific Islands. The 26 taxa shared by the Baja California and Channel Islands indicate a clear connection between these isolated and disjunct regions. What precludes these taxa from occurring on the Alta California mainland, and what does this suggest for the past extent of the CFP? Did these taxa evolve locally and then migrate, or does this pattern instead reflect a distant legacy?

Three current hypotheses attempt to explain the presence of these disjunct populations on the California Pacific Islands: (1) these species have the ability to disperse long distances yet for some reason have failed to establish on the California mainland; (2) these species were historically more widespread, connected by former geologic linkages, and have been unable to persist on the Alta California mainland, remaining in refugia on the islands and in Baja California; or (3) the Channel Islands originally occurred farther south near San Diego (Atwater 1998) and as they

moved north, fog-moderated climates retained species native to that region.

A number of the exemplar taxa have distributions on the Channel Islands and farther south in Baja California, suggestive of the refugium hypothesis (i.e., these species were once more widespread). Epling and Lewis (1942) proposed that the diverse Diegan Scrub has many taxa derived from Miocene vegetation that came from the north Mexican plateau. Axelrod (1978) states that Diegan Scrub was more restricted in the Pleistocene and expanded in the Holocene as arid-adapted taxa moved northward into the southern Channel Islands. Many CFP species are found in disjunct occurrences, scattered across Arizona and Mexico, not unlike the presence of these 26 species on the islands (Valiente-Banuet et al. 1998, Bhaskar et al. 2007). Small-scale topographic niches and facilitation by other species often support these occurrences. Axelrod (1978) also points out that the most important conditions for Diegan Scrub vegetation

appear to be the absence of frost and the presence of a degree of summer moisture (in the form of fog). The cold California current and dense fog banks suggest that similarities in climate may help to explain the similarities in the floras (Fischer et al. 2008).

On the other hand, a number of the exemplar taxa are perhaps better explained as having evolved on the islands. This is especially true of many island *Lotus* species (Acmispon; McGlaughlin et al. 2011, McGlaughlin personal communication), *Eschscholzia ramosa* (Still and Potter 2013), and *Crossosoma californicum* (Wallace and Helenurm 2009), among others (Baldwin, 2007). For this pattern, we hypothesize local evolution and subsequent dispersal to similar niches on the CFP Baja Islands.

Guadalupe Island poses a particularly interesting study system. As the most isolated island, located roughly 270 km offshore, Guadalupe is a true oceanic island never connected to the Baja California Peninsula. Understanding the colonization of Guadalupe may contribute to understanding the dispersal patterns that we see today. Of 26 exemplar taxa, 21 of them occur on Guadalupe. Floristic similarities to the Channel Islands flora (at least 400 km north) may be due to the California current moving species from the California islands southward. Guadalupe Island has been above water for millions of years, and its current flora could represent the accumulation of species from the possible sources over this time.

In addition to a better understanding of the origin and evolution of the CFP, these species lists allow for improved conservation planning. Twenty-one of the 26 species are listed by the California Rare Plant Ranking (CNPS 2013) yet currently have no protection with the Mexican government. Twenty-five of the 26 species are listed in the rare plant ranking for Baja California (O'Brien et al. in press). These rankings are utilized in conservation planning in California and would be useful for land planning in Baja California. These combined islands species lists provide important information about the level of invasive species in the regions. Of the 535 taxa on the Baja California Islands, roughly 14% (74) are introduced species (excluding planted species, which were not included in our analyses). In comparison, of the 976 species on the California Channel Islands, roughly 28% (278) are introduced species. Presumably, the lower

proportion of invasive species on the Baja California Islands is due to less human use and fewer impacts to date.

The exemplar taxa identified by this process can now serve as the focal point of research to better understand the region's historical biogeography. Such research can incorporate phylogenetic relationships and their importance in community assembly (Webb et al. 2008). Functional trait analyses would help determine if these taxonomically diverse species share inherent traits that explain their disjunct distributions. Comparative phylogeographic studies of these shared taxa would test the specific hypothesis discussed above, among others, and offer a glimpse into the past. Additionally, the knowledge of patterns and modes of dispersal would provide valuable natural history information. Further genetic work to resolve the origin of these island specialist species would help to elucidate questions of timing, and definitively separate neo- and paleo-endemics in the exemplar list.

Conservation activity in Baja California has recently expanded, yet knowledge of plant distributions and ecology remains limited. We hope that these updated checklists of the California Pacific Islands will facilitate species status and distribution updates on both sides of the border, and foster well-informed conservation decisions that promote expanded science and management for the transborder ecoregion.

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Appendix 2 on page 188.

APPENDIX 1. Plant species checklist for the 8 Baja California islands (Cedros [CED], Coronados [COR], Jeronimo [JER], Guadalupe [GUA], Natividad [NAT], San Benito [BEN], San Martín [MAR], and Todos Santos [TOS]). An ampersand (&) indicates an extirpated species; a question mark (?) indicates an unvouchered taxon; and an asterisk (\*) indicates a nonnative species.

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
<b>FERNS</b>									
Dryopteridaceae									
<i>Polystichum minutum</i> (Kaulf.) C. Presl						GUA			
Polypodiaceae									
<i>Polypodium californicum</i> Kaulf.		COR	TOS			GUA			
<i>Polypodium scouleri</i> Hook. & Grev.						GUA			
Pteridaceae									
<i>Adiantum capillus-veneris</i> L.								GED	
<i>Cheilanthes brandegeei</i> D.C. Eaton								GED	
Pteridiaceae									
<i>Cheilanthes neuberryi</i> Domin						GUA			
<i>Notholaena californica</i> D.C. Eaton	ssp. <i>californica</i>					GUA		GED	
<i>Notholaena californica</i> D.C. Eaton	ssp. <i>leucophylla</i> Windham							GED	
<i>Pellaea andromedifolia</i> (Kaulf.) Fee		COR						GED	
<i>Pellaea mucronata</i> D.C. Eaton	var. <i>mucronata</i>					GUA			
<i>Pentagramma triangularis</i> (Kaulf.) Yatskiévych et al.	ssp. <i>triangularis</i>	COR				GUA		GED	
<i>Pentagramma triangularis</i> (Kaulf.) Yatskiévych et al.	ssp. <i>maxonii</i> (Weath.) Yatsk., Windham & E. Wollenw.					GUA		GED?	
<i>Pentagramma triangularis</i> (Kaulf.) Yatskiévych et al.	ssp. <i>viscosa</i> (D.C. Eaton) Yatsk., Windham, & E. Wollenw.					GUA			
<i>Pentagramma triangularis</i> (Kaulf.) Yatskiévych et al.	ssp. <i>senipallida</i> (J.T. Howell) Yatsk., Windham & E. Wollenw.					GUA			
<b>GYMNOSPERMS</b>									
Cupressaceae									
<i>Hesperocyparis guadalupensis</i> (S. Watson) Bartel <sup>1</sup>						GUA			
<i>Juniperus californica</i> Carrière						GUA		GED	
Ephedraceae									
<i>Ephedra aspera</i> S. Watson								GED	
Pinaceae									
<i>Pinus radiata</i> D. Don	var. <i>binata</i> (Engelm.) Lemmon					GUA			
<i>Pinus radiata</i> D. Don	var. <i>cedrosensis</i> (J.T. Howell) Axelrod							GED	
<b>MONOCOTS</b>									
Arecaceae									
<i>Brahea edulis</i> H. Wendl. ex S. Watson						GUA			

<sup>1</sup>Synonym: *Cupressus guadalupensis* S. Watson

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
Agavaceae									
<i>Agave bastianiana</i> Greene									
<i>Agave shawii</i> Englem.									
<i>Yucca valida</i> Brandegec			TOS				BEN	CED	NAT
Cyperaceae								CED	
<i>Carex spissa</i> L. H. Bailey								CED?	
<i>Eleocharis geniculata</i> (L.) Roemer & Schultes								CED	
<i>Schoenoplectus californicus</i> (C.A. Mey) Sofak								CED?	
Juncaceae									
<i>Juncus acutus</i> L. <sup>2</sup>	ssp. <i>leopoldii</i>							CED	
<i>Juncus bufonius</i> L. <sup>3</sup>	var. <i>bufonius</i>					GUA			
<i>Juncus bufonius</i> L. <sup>4</sup>	var. <i>congestus</i> Wahlenb					GUA			
Liliaceae									
<i>Calochortus splendens</i> Dougl.		COR							
Orchidaceae									
<i>Piperita cooperi</i> (S. Watson) Rydb		COR	TOS						
Poaceae									
<i>Agrostis pallens</i> Trin.		COR							
<i>Aristida adscensionis</i> L.									
<i>Arundo donax</i> L. <sup>*</sup>						GUA		CED	
<i>Avena barbata</i> Brot. <sup>*</sup>								CED	
<i>Avena fatua</i> L. <sup>*</sup>		COR	TOS			GUA		CED	
<i>Bromus berteroaanus</i> Colla		COR	TOS	MAR		GUA		CED	
<i>Bromus carinatus</i> Hook. & Arn.				MAR		GUA		CED	
<i>Bromus diandrus</i> Roth. <sup>*</sup>		COR	TOS	MAR		GUA		CED	
<i>Bromus hordeaceus</i> L. <sup>*</sup>		COR	TOS	MAR		GUA		CED	
<i>Bromus madritensis</i> L. <sup>*</sup>		COR	TOS	MAR		GUA		CED	
<i>Bromus tectorum</i> L. <sup>*</sup>						GUA		CED?	
<i>Cynodon dactylon</i> (L.) Pers. <sup>*</sup>		COR						CED	
<i>Distichlis spicata</i> (L.) Greene		COR		MAR				CED	
<i>Distichlis littoralis</i> (Engelm.) H.L. Bell & Columbus <sup>5</sup>				MAR					
<i>Elymus condensatus</i> J. Presl <sup>6</sup>									
<i>Eragrostis pectinacea</i> (Michx.) Nees		COR	TOS						NAT
<i>Festuca bromioides</i> L. <sup>7*</sup>	var. <i>pectinacea</i>					GUA			

<sup>2</sup>Report confirmed, herbarium specimen @ SD<sup>3</sup>New record; herbarium specimen @ RSA, SD<sup>4</sup>New record; herbarium specimen @ RSA, SD<sup>5</sup>Synonym: *Monanthochloe littoralis* Engelm.<sup>6</sup>Synonym: *Leymus condensatus* (J. Presl) A. Löve<sup>7</sup>Synonym: *Vulpia bromioides* (L.) Gray

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
<i>Festuca microstachys</i> Nutt. <sup>8</sup>									
<i>Festuca myuros</i> L. <sup>9*</sup>	var. <i>pauciflora</i> Scribn.			MAR		GUA		GED	
<i>Festuca octoflora</i> Walt. <sup>10</sup>	var. <i>octoflora</i>	COR	TOS	MAR		GUA		GED	
<i>Hordeum murinum</i> L. <sup>*</sup>	ssp. <i>glaucum</i> (Steud.) Tzvelev.	COR	TOS	MAR		GUA		GED	
<i>Hordeum murinum</i> L. <sup>*</sup>	ssp. <i>leporinum</i> (Link) Arcang.	COR	TOS	MAR		GUA		GED	
<i>Lamarckia aurea</i> (L.) Moench <sup>*</sup>		COR	TOS	MAR		GUA		GED	
<i>Melica frutescens</i> Scribn.									
<i>Melica imperfecta</i> Trin.		COR	TOS	MAR		GUA		GED	
<i>Muhlenbergia microsperma</i> (DC.) Kunth		COR	TOS	MAR		GUA		GED	
<i>Phalaris caroliniana</i> Walt.									
<i>Phalaris minor</i> Retz. <sup>*</sup>			TOS			GUA		GED	NAT
<i>Pytochaetium pringlei</i> (Beal) Parodi									
<i>Poa annua</i> L. <sup>*</sup>						GUA		GED	
<i>Poa secunda</i> J.S. Presl			TOS <sup>11</sup>			GUA		GED	
<i>Poa thomasi</i> Refulio <sup>12</sup>	ssp. <i>secunda</i>					GUA			
<i>Polygogon viridis</i> (Gouan) Breistr. <sup>13*</sup>								GED	
<i>Polygogon monspeliensis</i> * (L.) Desf.			TOS			GUA		GED	
<i>Schismus barbatus</i> (L.) Thell. <sup>*</sup>						GUA		GED	
<i>Sorghum bicolor</i> (L.) Moench <sup>*</sup>								GED	
<i>Stipa speciosa</i> Trin. & Rupr. <sup>14</sup>								GED	
<i>Stipa lepidota</i> A. Hitchc. <sup>15</sup>			TOS			GUA		GED?	
<i>Stipa diegoensis</i> Swallen									
<i>Stipa pulchra</i> Hitchc.									
<i>Triticum aestivum</i> L. <sup>*</sup>		COR		MAR		GUA		GED?	
<i>Zea mays</i> L. <sup>*</sup>									NAT
Themidaceae									
<i>Dichelostemma capitatum</i> Alph. Wood									
<i>Trileta guadalupensis</i> L.W. Lenz							BEN	GED	
<i>Triteleopsis palmieri</i> (S.Watson) Hoover									
Typhaceae									
<i>Typha latifolia</i> L.								GED?	
Zosteraceae									
<i>Phyllospadix scouleri</i> Hook.		COR		MAR	JER			GED	NAT

<sup>8</sup>Synonym: *Vulpia microstachys* (Nutt.) Munro<sup>9</sup>Synonym: *Vulpia myuros* (L.) C.C. Good<sup>10</sup>Synonym: *Vulpia octoflora* (Walter) Rydb. var. *octoflora* and V. o. var. *hirtella* (Piper) Henrard<sup>11</sup>New record; herbarium specimen @ SD (Thorne 53921)<sup>12</sup>Synonym: *Stenochloa californica* Nutt.<sup>13</sup>Synonym: *Agrostis semiverticillata* (Forssk.) C. Chr.<sup>14</sup>Synonym: *Achnatherum speciosum* (Trin. & Rupr.) Barkworth<sup>15</sup>Synonym: *Nassella lepidota* (Hitchc.) Barkworth

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Phyllospadix torreyi</i> S. Watson			TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Zostera marina</i> L.			TOS	MAR	JER	GUA	BEN	CED	NAT
BASAL DICOTS									
Saururaceae									
<i>Anemopsis californica</i> (Nutt.) H. & A.								CED?	
EUDICOTS									
Aizoaceae									
<i>Carpobrotus chilensis</i> (Molina) N.E. Br.*		COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Mesembryanthemum crystallinum</i> L.*		COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Mesembryanthemum nodiflorum</i> L.*		COR	TOS	MAR	JER	GUA	BEN	CED?	NAT
Anacardiaceae									
<i>Malosma laurina</i> (Nutt. in T. & G.) Nutt. ex Abrams			TOS			GUA		CED	
<i>Pachycormus discolor</i> (Benth.) Cov.			TOS			GUA		CED	NAT
<i>Rhus integrifolia</i> (Nutt.) Brewer & S. Watson			TOS			GUA		CED	
<i>Rhus integrifolia</i> × <i>lentii</i>								CED	
<i>Rhus lentii</i> Kell.								CED	
Apiaceae									
<i>Cortandrum sativum</i> L.*								CED?	
<i>Foeniculum vulgare</i> Mill.*								CED	
<i>Apiastrum angustifolium</i> Nutt. in Torrey & A. Gray		COR	TOS					CED	
<i>Bowlesia incana</i> Ruiz & Pav.			TOS			GUA		CED?	
<i>Daucus pusillus</i> Michaux		COR	TOS			GUA		CED	
<i>Lomatium insulare</i> (Eastw.) Munz.						GUA		CED	
<i>Yabea microcarpa</i> (Hook. & Arn.) Koso-Pol. <sup>16</sup>						GUA		CED	
Apocynaceae									
<i>Asclepias subulata</i> Decne. in A. DC.						GUA		CED	
<i>Nerium oleander</i> L.*									
Araliaceae									
<i>Hydrocotyle umbellata</i> <sup>17</sup>								CED	
Asteraceae									
<i>Agoseris heterophylla</i> (Nutt.) Greene						GUA			
<i>Anaauria rotundifolia</i> Benth.									
<i>Amblyopappus pusillus</i> Hook. & Arn.		COR	TOS	MAR	MAR	GUA	BEN	CED	NAT
<i>Ambrosia camphorata</i> (Greene) Payne				MAR?		GUA		CED	
<i>Ambrosia chamissonis</i> (Less.) Greene				MAR				CED?	
<i>Ambrosia chenopodiifolia</i> (Benth.) Payne			TOS					CED	NAT
<i>Ambrosia magdalenae</i> (Brandege) Payne								CED	

<sup>16</sup>New record; herbarium specimen @ RSA, SD<sup>17</sup>New record; herbarium specimen @ SD (166694, Amadeo Bea 1568, 22 Feb 1988)

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
<i>Artemisia californica</i> Less.									
<i>Baccharis sarothroides</i> A. Gray		COR	TOS			GUA		GED	
<i>Baeripopsis guadalupensis</i> J.T. Howell		COR						GED	
<i>Bahipopsis lacininata</i> A. Gray <sup>18</sup>			TOS			GUA			
<i>Bebbia juncea</i> (Benth.) Greene	var. <i>juncea</i>							GED	NAT
<i>Brickellia microphylla</i> (Nutt.) A. Gray								GED?	
<i>Centaurea melitensis</i> L.*			TOS			GUA		GED	
<i>Chaenactis glabriuscula</i> DC. <sup>19</sup>	var. <i>glabriuscula</i>	COR							NAT
<i>Chaenactis lacera</i> Greene <sup>20</sup>									NAT
<i>Coreocarpus involutus</i> Greene									NAT
<i>Deinandra fasciculata</i> (DC.) Greene			TOS					GED	
<i>Deinandra frutescens</i> (A. Gray) B.G. Baldwin						GUA			
<i>Deinandra greeneana</i> (Rose) B.G. Baldwin						GUA			
<i>Deinandra palmeri</i> (Rose) B.G. Baldwin						GUA			
<i>Deinandra palmeri</i> × <i>D. greeneana</i>						GUA			
<i>Deinandra peninsularis</i> (Moran)			TOS						
B.G. Baldwin <sup>21</sup>									
<i>Deinandra streetsii</i> (A. Gray) B.G. Baldwin							BEN		
<i>Encelia asperifolia</i> (S.F. Blake) Clark & Kyhos							BEN		
<i>Encelia californica</i> Nutt.		COR <sup>22</sup>	TOS	MAR				GED	
<i>Encelia palmeri</i> Vasey & Rose									NAT
<i>Encelia stenophylla</i> Greene								GED	
<i>Ericameria brachylepis</i> (A. Gray) Hall								GED	
<i>Erigeron sumatrensis</i> Retz. <sup>23*</sup>						GUA			
<i>Eriophyllum confertiflorum</i> (DC.) A. Gray								GED	
<i>Eriophyllum lanatum</i> (Pursh) J. Forbes		COR							
<i>Glebionis coronarium</i> (L.) Cass. ex Spach <sup>24*</sup>			TOS			GUA			
<i>Greenella ramulosa</i> Greene								GED?	
<i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby								GED	
<i>Hazardia berberidis</i> (A. Gray) Greene		COR	TOS						
<i>Hazardia cana</i> (A. Gray) Greene						GUA			
<i>Hazardia orcuttii</i> (A. Gray) Greene <sup>25</sup>		COR							
<i>Hypochoeris glabra</i> L.*			TOS			GUA		GED?	

<sup>18</sup>Synonym: *Viguiera lacininata* A. Gray<sup>19</sup>New record; herbarium specimen @ SD<sup>20</sup>New record; herbarium specimen @ SD<sup>21</sup>Synonym: *Hemizonia greeneana* Rose ssp. *peninsularis* (Moran) B.L. Turner<sup>22</sup>New record; herbarium specimens @ SD<sup>23</sup>Synonym: *Conyza floribunda* Kunth<sup>24</sup>Synonym: *Chrysanthemum coronarium* L.<sup>25</sup>New record; herbarium specimen @ SD (5248, Ralph Summer, s.n. 1920-specimen recently identified)

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
<i>Isooma menziesii</i> (Hook. & Arn.) G.L. Nesom	ssp. <i>menziesii</i>		TOS					GED	
<i>Iva hayesiana</i> A. Gray								GED	
<i>Lasthenia coronaria</i> (Nutt.) Ornduff		COR	TOS			GUA			
<i>Lasthenia gracilis</i> (DC.) Greene		COR	TOS			GUA		GED?	
<i>Lajtia platyglossa</i> (Fisch. & Mey.) A. Gray						GUA			
<i>Leptosyme gigantea</i> Kellogg <sup>26</sup>						GUA			
<i>Leptosyme maritima</i> (Nutt.) A. Gray <sup>27</sup>		COR	TOS	MAR					
<i>Logfia arizonica</i> (A. Gray) Holub <sup>28</sup>						GUA		GED?	
<i>Logfia filaginoides</i> (Hook. & Arn.) Morefield <sup>29</sup>			TOS			GUA		GED	
<i>Malacothrix clevelandii</i> A. Gray						GUA			
<i>Malacothrix foliosa</i> A. Gray		COR							
<i>Malacothrix insularis</i> Greene		COR							
<i>Malacothrix similis</i> Davis & Raven		COR	TOS					GED	
<i>Matricaria occidentalis</i> Greene <sup>30*</sup>						GUA			
<i>Micropus californicus</i> Fisch. & C.A. Mey.						GUA			
<i>Perityle californica</i> Benth.									
<i>Perityle emoryi</i> Torrey									
<i>Perityle incana</i> A. Gray		COR	TOS	MAR		GUA	BEN	GED	NAT
<i>Pluchea odorata</i> (L.) Cass.	var. <i>odorata</i>					GUA		GED	
<i>Porophyllum gracile</i> Benth.								GED	
<i>Pseudognaphalium beneolens</i> Davidson			TOS			GUA <sup>31</sup>			
<i>Pseudognaphalium biolettii</i> Anderberg			TOS	MAR		GUA		GED	
<i>Pseudognaphalium luteoalbum</i> (L.) Hilliard & B.L. Burt		COR				GUA <sup>32</sup>			
<i>Pseudognaphalium microcephalum</i> Nutt.		COR							
<i>Pseudognaphalium ramosissimum</i> Nutt.		COR							
<i>Pseudognaphalium</i> sp. nov. <sup>33</sup>									
<i>Pseudognaphalium stramineum</i> (Kunth) Anderberg						GUA		GED	
<i>Rafinesquia californica</i> Nutt.									
<i>Senecio aphanactis</i> Greene		COR	TOS	MAR				GED	
<i>Senecio crotosensis</i> Greene							BEN	GED	

<sup>26</sup>Synonym: *Coreopsis gigantea* (Kellogg) H.M. Hall<sup>27</sup>Synonym: *Coreopsis maritima* (Nutt.) Hook. f.<sup>28</sup>Synonym: *Filago arizonica* A. Gray<sup>29</sup>Synonym: *Filago arizonica* A. Gray<sup>30</sup>Synonym: *Filago californica* Nutt.<sup>31</sup>New record; herbarium specimen @ RSA, SD<sup>32</sup>New record; herbarium specimen @ RSA, SD<sup>33</sup>New record; herbarium specimen @ RSA, SD (description pending)

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Senecio lgonii</i> A. Gray				MAR			BEN		
<i>Senecio palmieri</i> A. Gray						GUA			
<i>Senecio sylvaticus</i> L.*		COR	TOS	MAR		GUA		CED?	NAT
<i>Sonchus oleraceus</i> L.*		COR	TOS	MAR		GUA	BEN	CED	NAT
<i>Sonchus tenerrimus</i> L.*						GUA			
<i>Stephanoseris heterocarpa</i> (Nutt.) Chambers		COR	TOS						
<i>Stephanomeria diegensis</i> Gottlieb						GUA			
<i>Stephanomeria guadalupensis</i> Brandegee									
<i>Trixis californica</i> Kell.	var. <i>californica</i>	COR	TOS	MAR		GUA	BEN&	CED	
<i>Uropappus lindleyi</i> (DC.) Nutt.									
<i>Verbesina dissita</i> A. Gray			TOS						
<i>Verbesina hastata</i> Kell.								CED	
<i>Viguiera lanata</i> (Kell) A. Gray							BEN&	CED	NAT
<i>Xylothamia diffusa</i> (Benth.) Nesom									
Borragiaceae									
<i>Amisackia inepta</i> J.F. Macbr.									
<i>Amisackia menziesii</i> (Lehm.) Nels. & Macbr.			TOS	MAR		GUA		CED	
<i>Cryptantha barbigeri</i>	var. <i>barbigeri</i> (A. Gray) Greene		TOS					CED	
<i>Cryptantha cleveandii</i> Greene			TOS			GUA			
<i>Cryptantha foliosa</i> Reiche									
<i>Cryptantha graji</i> (V. & R.) Macr.	var. <i>cryptochaeta</i> I.M. Johnston								CED
<i>Cryptantha intermedia</i> (A. Gray) Greene		COR	TOS	MAR					
<i>Cryptantha maritima</i> (Greene)	var. <i>cedrosensis</i> (Greene) Jtn.								
<i>Cryptantha maritima</i> (Greene)	var. <i>maritima</i> Greene	COR				GUA	BEN	CED	NAT
<i>Cryptantha patula</i> Greene							BEN		
<i>Emmenanthe penduliflora</i> Benth.						GUA			
<i>Eucrypta chrysanthemifolia</i> (Benth.) Greene						GUA		CED?	
<i>Eucrypta chrysanthemifolia</i> (Benth.) Greene						GUA	BEN		
<i>Harpagonella palmieri</i> A. Gray		COR	TOS			GUA			
<i>Heliotropium curassavicum</i> L.									
<i>Johnstonella angelica</i> (I.M. Johnston) Hasenstab & M.G. Simpson <sup>34</sup>				MAR				CED	
<i>Pectocarya linearis</i> DC									
<i>Pectocarya recurvata</i> I.M. Johnston.	ssp. <i>ferocula</i> I.M. Johnston.					GUA		CED?	
<i>Phacelia cedrosensis</i> Rose						GUA		CED	NAT
<i>Phacelia cicutaria</i> Greene									
<i>Phacelia crenulata</i> Torr.									
<i>Phacelia distans</i> Benth.									
<i>Phacelia floribunda</i> Greene									
	var. <i>hispidi</i> (A. Gray) J. Howell		TOS						
		COR	TOS						
						GUA			

<sup>34</sup>Synonym: *Cryptantha angelica* I. M. Johnston; herbarium specimen @ SD (Moran 25430)



## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
<i>Phacelia hirtuosa</i> A. Gray			TOS	MAR					
<i>Phacelia ixodes</i> Kell.		COR	TOS	MAR			BEN	GED	NAT
<i>Phacelia parryi</i> Torr.				MAR					
<i>Phacelia phyllomanica</i> A. Gray						GUA			
<i>Pholistoma auritum</i> (Lindl.) Lilja		COR	TOS						
<i>Pholistoma racemosum</i> (Nutt.) Const.		COR	TOS	MAR		GUA		GED	NAT
<i>Plagiobothrys acanthocarpus</i> (Piper) I.M. Johnston.						GUA			
<i>Plagiobothrys collinus</i> (Philbr.) I.M. Johnston.	var. <i>californicus</i>					GUA		GED	
<i>Plagiobothrys collinus</i> (Philbr.) I.M. Johnston.	var. <i>gracilis</i> Jtn.					GUA <sup>35</sup>		GED	
Brassicaceae									
<i>Athyrium pusillus</i> (Hook.) Greene								GED?	
<i>Brassica nigra</i> (L.) W.D.J. Koch*						GUA		GED	
<i>Brassica rapa</i> L.*								GED	
<i>Brassica tournefortii</i> Gouan*								GED	
<i>Cakile maritima</i> Scop.*			TOS	MAR			BEN	GED	NAT
<i>Capsella bursa-pastoris</i> (L.) Medik.*						GUA		GED	
<i>Caulanthus heterophyllus</i> Payson	var. <i>heterophyllus</i>					GUA		GED	NAT
<i>Caulanthus lasiophyllus</i> (Hook. & Arn.) Payson <sup>36</sup>			TOS			GUA		GED	NAT
<i>Caulanthus pinnata</i> (Walt.) Britt.	var. <i>brachycarpa</i> (Richardson) Detling							GED	
<i>Descurainia pinnata</i>	ssp. <i>glabra</i> (Woot. & Standl.) Dedl.	COR						GED	
<i>Descurainia pinnata</i> (Cockerell) Detling	ssp. <i>halictorum</i> (Cockerell) Detling			MAR				GED	
<i>Descurainia pinnata</i> (Cockerell) Detling	ssp. <i>menziesii</i> (DC.) Detling		TOS			GUA		GED	
<i>Draba cuneifolia</i> S. Watson	var. <i>integrifolia</i>							GED	
<i>Eruca vesicaria</i> (L.) Cav. <sup>37</sup>	ssp. <i>sativa</i>							GED	
<i>Erysimum moranii</i> Rollins						GUA			
<i>Hornungia procumbens</i> (L.) Hayek <sup>38*</sup>						GUA			
<i>Lepidium lasiocarpum</i> Nutt.	var. <i>latifolium</i>			MAR?		GUA	BEN?		NAT
<i>Lepidium nitidum</i> Torrey & A. Gray			TOS			GUA			
<i>Lepidium oblongum</i> Small	var. <i>insulare</i> C.L. Hitchc.		TOS	MAR		GUA	BEN	GED	NAT
<i>Raphanus sativus</i> L.*						GUA			
<i>Silene angulorum</i> (S. Watson) Greene			TOS			GUA		GED	
<i>Sisymbrium irio</i> L.*		COR	TOS			GUA		GED	NAT
<i>Sisymbrium orientale</i> L.*			TOS			GUA		GED	
<i>Thysanocarpus erectus</i> S. Watson						GUA		GED	
<i>Thysanocarpus laciniatus</i> Nuttall								GED	

<sup>35</sup>New record; herbarium specimen @ RSA, SD<sup>36</sup>Synonym: *Gaillonia lasiophylla* (Hook. & Arn.) Greene<sup>37</sup>New record; herbarium specimen @ SD (John Brown, s.n., April 4 1983)<sup>38</sup>Synonym: *Hutchinsia procumbens* (L.) Desv.

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
Cactaceae									
<i>Bergerocactus emoryi</i> (Engelm.) Br. & R.									
<i>Cochemiea ponda</i> Walton		COR	TOS	MAR				GED	NAT
<i>Cylindropuntia alcahes</i> (F.A.C. Weber) F.M. Knuth	var. <i>alcahes</i>							GED	
<i>Cylindropuntia cholla</i> (F.A.C. Weber) F.M. Knuth								NAT	
<i>Cylindropuntia prolifera</i> (Engelm.) F.M. Knuth		COR	TOS	MAR?		GUA		GED?	
<i>Cylindropuntia</i> sp. nova <sup>39</sup>								GED	NAT?
<i>Echinocereus maritimus</i> (M.E. Jones) K. Schum.	var. <i>maritimus</i>			MAR			BEN	GED?	NAT
<i>Ferocactus chrysacanthus</i> (Orcutt) Britt. & Rose								GED	
<i>Ferocactus foidii</i> (Orcutt) Britt. & Rose	var. <i>grandiflorus</i> G.E. Linds.			MAR				GED	NAT
<i>Lophocereus schottii</i> (Engelm.) Br. & R.	var. <i>schottii</i>			MAR <sup>40</sup>			BEN	GED	
<i>Mammillaria blossfeldiana</i> Boedeker	var. <i>shurtiana</i> Gates					GUA		GED	
<i>Mammillaria dioica</i> M.K. Brandegee		COR	TOS	MAR				GED	
<i>Mammillaria goodridgei</i> Scheer	var. <i>rectispina</i> E.Y. Dawson							GED	
<i>Mammillaria goodridgei</i> Scheer	var. <i>goodridgei</i>							GED	NAT
<i>Mammillaria hutchinsoniana</i> (Gates) Boed.								GED	
<i>Mammillaria louisae</i> G.E. Linds				MAR <sup>41</sup>				GED	
<i>Mammillaria neopalmari</i> R.T. Craig							BEN?		
<i>Mrytillocactus cochal</i> (Orcutt) Britt. & Rose									
<i>Opuntia ficus-indica</i> (L.) Miller			TOS	MAR					
<i>Opuntia littoralis</i> (Engelm.) Cockerell									
<i>Opuntia oricola</i> Philbrick		COR	TOS	MAR <sup>42</sup> aff.				GED?	
<i>Pachycereus pringlei</i> (S. Watson) Britton & Rose		COR	TOS	MAR <sup>43</sup>				GED?	NAT
<i>Stenocereus gummosus</i> (Engelm.) A.C.								GED	
Gibson & K.E. Horak									
Cappariaceae									
<i>Githopsis diffusa</i> A. Gray									
<i>Triodanis biflora</i> (Ruiz & Pav.) Greene	var. <i>guadalupensis</i> (Morin) Lammers					GUA			
Cannabaceae									
<i>Celtis laevigata</i> <sup>44</sup>	var. <i>reticulata</i> (Torr.) Benson							GED?	
Capparidaceae									
<i>Peritoma arborea</i> (Nutt.) Iltis <sup>45</sup>									
<i>Peritoma arborea</i> (Nutt.) Iltis <sup>46</sup>	var. <i>angustata</i> (Parish) Iltis								
	var. <i>globosa</i> (Coville) Iltis	COR						GED	

<sup>39</sup>New record; pers. comm. Jon Rehman, SD (includes *Cylindropuntia californensis* Rehman)<sup>40</sup>New record; herbarium specimen @ RSA, SD<sup>41</sup>Re-identification, changed from *M. hutchinsoniana*<sup>42</sup>New record; herbarium specimen @ RSA<sup>43</sup>New record; herbarium specimen @ RSA<sup>44</sup>Synonym; *Celtis douglasii* Planch.<sup>45</sup>Synonym; *Isomeris arborea* Nutt. ssp. *angustata* Parish<sup>46</sup>New record; herbarium specimen @ SD Rehman 6230

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
Caprifoliaceae									
<i>Lonicera hispidula</i> Dougl. <sup>47</sup>						GUA			
<i>Lonicera subspicata</i> Hook. & Arn.	var. <i>denudata</i> Rehder							CED	
Caryophyllaceae									
<i>Achyroxychia cooperi</i> Torrey & A. Gray									CED
<i>Cerastium glomeratum</i> Thuill.*						GUA			
<i>Drymaria holosteoides</i> Benth.	var. <i>holosteoides</i>							CED	
<i>Herniaria hirsuta</i> L.	var. <i>cinerea</i> (DC.) Coutinho		TOS			GUA			
<i>Polycarpon depressum</i> Nutt.			TOS			GUA			
<i>Silene antirrhina</i> L.			TOS			GUA			
<i>Silene gallica</i> L.*		COR				GUA		CED?	
<i>Silene laciniata</i> Cav. <sup>48</sup>		COR				GUA			
<i>Spergularia bocconii</i> (Scheele) Merino*						GUA			
<i>Spergularia macrotheca</i>	(Hornem. ex Cham. & Schltdl.) Heynh. <sup>49</sup>					GUA			
<i>Spergularia macrotheca</i>	var. <i>talinum</i> (Greene) Jepps.					GUA			
<i>Spergularia marina</i> J. & K. Presl	(Hornem. ex Cham. & Schltdl.) Heynh.					GUA			
<i>Spergularia villosa</i> (Pers.) Camb.*		COR		MAR <sup>50</sup>		GUA			
<i>Stellaria media</i> (L.) Vill.*		COR							
<i>Stellaria pallida</i> (Dumort.) Crép*		COR							
<i>Stellaria nitens</i> Nutt.						GUA			CED
<i>Allenrolfeca occidentalis</i> (S. Watson) Kuntze									
Chenopodiaceae									
<i>Aphanisma blitoides</i> Nutt.		COR	TOS	MAR		GUA	BEN	CED	NAT
<i>Arthrocnemum subterminale</i> (Pursh) Standl. <sup>51</sup>				MAR					
<i>Atriplex barclayana</i> (Benth.) Dietr.						GUA	BEN	CED?	NAT
<i>Atriplex californica</i> Moq.		COR	TOS			GUA		CED	
<i>Atriplex canescens</i> (Pursh) Nutt.		COR							
<i>Atriplex coulteri</i> (Moq.) D. Dietr.	ssp. <i>canescens</i>						BEN	CED?	NAT?
<i>Atriplex julacea</i> S. Watson			TOS	MAR				CED	NAT
<i>Atriplex leucophylla</i> (Moq. in DC.) D. Dietr.				MAR				CED	NAT
<i>Atriplex pacifica</i> Nels.		COR		MAR				CED	NAT
<i>Atriplex semibaccata</i> R. Br.*		COR	TOS	MAR		GUA		CED	
<i>Atriplex serenana</i> A. Nelson ex Abrams	var. <i>dauidsonii</i> (Standl.) Munz	COR		MAR <sup>52</sup> aff.					NAT × aff.

<sup>47</sup>Synonymy: *Lonicera hispidula* (Lindl.) Douglas ex Torr. & A. Gray var. *racillans* A. Gray

<sup>48</sup>Synonymy: *Silene laciniata* Cav. ssp. *major* C.L. Hitch. & Maguire

<sup>49</sup>New record; herbarium specimen @ RSA, SD

<sup>50</sup>New record; herbarium specimen @ RSA, SBBC

<sup>51</sup>Synonymy: *Salicornia subterminalis* Parish

<sup>52</sup>New record; herbarium specimen @ RSA, potentially new species

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Atriplex suberecta</i> Verdoorn		COR <sup>53</sup>				GUA			
<i>Atriplex watsonii</i> A. Nelson				MAR					
<i>Chenopodium album</i> L.								CED?	
<i>Chenopodium californicum</i> (S. Watson) S. Watson		COR	TOS						
<i>Chenopodium flabellifolium</i> Standl.				MAR					
<i>Chenopodium murale</i> L.*		COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Salicornia pacifica</i> Standl. <sup>54</sup>				MAR					
<i>Salsola australis</i> R.Br.*		COR	TOS					CED	
<i>Suaeda nigra</i> (Rafinesque) J.F. Macbride							BEN		NAT
<i>Suaeda taxifolia</i> (Standl.) Standl.		COR		MAR	JER <sup>55</sup>	GUA	BEN	CED	
Convolvulaceae									
<i>Calyptegia macrostegia</i> (Greene) Brummitt			TOS						
<i>Calyptegia macrostegia</i> (Greene) Brummitt	ssp. <i>intermedia</i>	COR <sup>56</sup>		MAR		GUA			
<i>Calyptegia macrostegia</i> (Greene) Brummitt	ssp. <i>macrostegia</i>			MAR		GUA			
<i>Cuscuta californica</i> Hook. & Arn.				MAR					NAT
<i>Cuscuta corymbosa</i> Ruiz & Pavon						GUA			
<i>Cuscuta salina</i> Engelm. <sup>57</sup>							BEN		
<i>Dichondra occidentalis</i> House	ssp. <i>salina</i>	COR	TOS						
Crassulaceae									
<i>Crassula connata</i> (Ruiz Lopez & Pavon)		COR	TOS	MAR		GUA	BEN?	CED	
A. Berger									
<i>Dudleya acuminata</i> Rose								CED	
<i>Dudleya albiflora</i> Rose							BEN?	CED	NAT
<i>Dudleya anomala</i> (Davidson) Moran		COR	TOS						
<i>Dudleya anthonyi</i> Rose				MAR					
<i>Dudleya anthonyi</i> × <i>D. cultrata</i> Rose				MAR					
<i>Dudleya attenuata</i> (S. Watson) Moran		COR	TOS						
<i>Dudleya brittonii</i> D.A. Johans.			TOS						
<i>Dudleya candida</i> Britton		COR							
<i>Dudleya cedrosensis</i> Moran								CED	
<i>Dudleya cultrata</i> Rose				MAR					
<i>Dudleya guadalupensis</i> Moran						GUA			
<i>Dudleya ingens</i> Rose									
<i>Dudleya lanceolata</i> (Nutt.) Britton & Rose								CED?	aff
<i>Dudleya linearis</i> (Greene) Britt. & Rose		COR							
<i>Dudleya pachyphyllum</i> Moran & Benedict							BEN?		CED

<sup>53</sup>New record; pers. comm. Jon Rehman

<sup>54</sup>Synonym: *Salicornia virginica* L.

<sup>55</sup>New record; herbarium specimen @ SD

<sup>56</sup>New record; pers. comm. Jon Rehman

<sup>57</sup>New record; herbarium specimen @ RSA, SD Moran 20315

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Dudleya virens</i> (Rose) Moran									
<i>Dudleya × semiteres</i> (Rose) Moran		COR	TOS			GUA			
Crossosomataceae									
<i>Crossosoma californicum</i> Nutt.						GUA			
Cucurbitaceae									
<i>Echinopepon minimum</i> (Kell.) S. Watson	var. <i>minimum</i>							CED	NAT
<i>Marah guadalupensis</i> Greene						GUA			
<i>Marah macrocarpus</i> (Greene) Greene		COR	TOS	MAR				CED	
Ericaceae									
<i>Arctostaphylos</i> sp.						GUA			
<i>Xylococcus bicolor</i> Nutt.								CED	
Euphorbiaceae									
<i>Acalypha californica</i> Benth.								CED	
<i>Andrachne ciliato-glandulosa</i> (Millsp.) Croizat								CED	
<i>Euphorbia albomarginata</i> Torr. & A. Gray*								CED?	
<i>Euphorbia bartolomaei</i> Greene								CED	NAT
<i>Euphorbia crenulata</i> Engelm.			TOS						
<i>Euphorbia misera</i> Benth.		COR	TOS	MAR		GUA	BEN	CED	NAT
<i>Euphorbia polycarpa</i> Benth.				MAR				CED	NAT
<i>Euphorbia pondii</i> Millsp. <sup>58</sup>						GUA			
Fabaceae									
<i>Acmispon argophyllus</i> (A. Gray) Brouillet <sup>59</sup>	ssp. <i>argenteus</i> (Dunkle)					GUA		CED	
<i>Acmispon flexuosus</i> (Greene) Brouillet <sup>60</sup>									
<i>Acmispon glaber</i> (Vogel) Brouillet <sup>61</sup>		COR?							
<i>Acmispon grandiflorus</i> (Benth.) Brouillet <sup>62</sup>	var. <i>grandiflorus</i>					GUA			
<i>Acmispon maritimus</i> (Nutt.) D.D. Sokoloff <sup>63</sup>	ssp. <i>brevitaxillus</i> (Ottley) Brouillet						BEN	CED	NAT
<i>Acmispon nudatus</i> (Greene) Brouillet <sup>64</sup>								CED	
<i>Acmispon rigidus</i> (Benth.) Brouillet <sup>65</sup>								CED	
<i>Acmispon strigosus</i> (Nutt.) Brouillet <sup>66</sup>			TOS	MAR				CED	
<i>Astragalus</i> aff. <i>gambelianus</i> E. Sheld.									NAT
<i>Astragalus fastidius</i> (Kell.) M.E. Jones								CED	
<i>Astragalus insularis</i> Kell.	var. <i>insularis</i>							CED	

<sup>58</sup>Synonymy: *Chamaesyce pondii* (Millsp.) Millsp.<sup>59</sup>Synonymy & per Jon Rehnman may be recognized as: *Lotus argophyllus* (A. Gray) Greene ssp. *ornithopus* (Greene) P.H. Raven<sup>60</sup>Synonymy: *Lotus cedrosensis* Greene<sup>61</sup>Synonymy: *Lotus scoparius* (Torr. & A. Gray) Ottley<sup>62</sup>Synonymy: *Lotus grandiflorus* (Benth.) Greene<sup>63</sup>Synonymy: *Lotus subsignosus* Greene ssp. *brevitaxillus* Ottley<sup>64</sup>Synonymy: *Lotus nudatus* (Greene) Greene<sup>65</sup>Synonymy: *Lotus rigidus* (Benth.) Greene<sup>66</sup>Synonymy: *Lotus strigosus* (Nutt.) Greene

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Astragalus magdalenae</i> Greene	var. <i>magdalenae</i>								NAT
<i>Astragalus nuttallianus</i> DC.	var. <i>cedrosensis</i> M.E. Jones							CED	NAT
<i>Astragalus trichopodus</i> A. Gray	var. <i>lonchus</i> (M.E. Jones) Barneby	COR	TOS					CED?	
<i>Dalea mollis</i> Benth.									NAT
<i>Ebenopsis confinis</i> (Standl.) Britton & Rose <sup>67</sup>									
<i>Errazurizia benthamii</i> (Brandege) I.M. Johnst.							BEN?	CED	
<i>Lapinus concinnus</i> Agardh.	ssp. <i>concinus</i>					GUA		CED	
<i>Lapinus guadalupensis</i> Greene						GUA			
<i>Lapinus niveus</i> S. Watson									
<i>Lapinus sparsiflorus</i> Benth.									
<i>Lapinus succulentus</i> Dougl.									
<i>Lapinus truncatus</i> Hook. & Arn.		COR	TOS	MAR				CED	
<i>Medicago polymorpha</i> L.*		COR				GUA			
<i>Melilotus indicus</i> (L.) All.*						GUA	BEN	CED	
<i>Phaseolus filiformis</i> Benth.							BEN?	CED	NAT
<i>Syrmatium watsonii</i> (Vasey & Rose) Brand <sup>68</sup>									
<i>Trifolium depauperatum</i> Desv.	var. <i>truncatum</i> (Greene) Martin ex Isely		TOS	MAR		GUA, <sup>69</sup>			
<i>Trifolium gracilentum</i> Torr. & A. Gray		COR <sup>70</sup>	TOS			GUA			
<i>Trifolium microcephalum</i> Pursh						GUA			
<i>Trifolium palmeri</i> S. Watson						GUA			
<i>Trifolium willdenovii</i> Sprengel		COR	TOS						
<i>Viola hassletii</i> S. Watson			TOS						
<i>Viola ludoviciana</i> Nutt.	ssp. <i>ludoviciana</i>					GUA			
<i>Vachellia farnesiana</i> (L.) Wight & Arn. <sup>71*</sup>	var. <i>minuta</i> (M.E. Jones) Seigler & Elbinger							CED	
<i>Quercus cedrosensis</i> C.H. Müll.								CED	
<i>Quercus tomentella</i> Engelm.						GUA			
Frankeniaceae									
<i>Frankenia palmeri</i> S. Watson									
<i>Frankenia salina</i> (Molina) I.M. Johnst.									
Garryaceae									
<i>Garrya veitchii</i> Kell.									
Gentianaceae									
<i>Zeltnera ventusta</i> (A. Gray) G. Mans. <sup>72</sup>						GUA	BEN	CED	NAT

<sup>67</sup>Synonym: *Pithecellobium confine* Standl.<sup>68</sup>Synonym: *Lotus watsonii* (Vasey & Rose) Greene<sup>69</sup>New record; pers. comm. Jon Rehman<sup>70</sup>New record; herbarium specimen @ SD<sup>71</sup>New record; pers. comm. Jon Rehman, photovoucher @ SD; synonym: *Acacia farnesiana* var. *minuta*<sup>72</sup>Synonym: *Centaurium venustum* (A. Gray) B.L. Rob.

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
Geraniaceae									
<i>Erodium botrys</i> (Cav.) Bertol.*		COR							
<i>Erodium brachycarpum</i> (Godr.) Thell.*						GUA			
<i>Erodium cicutarium</i> (L.) L'Her. ex Ait.*		COR	TOS	MAR		GUA		CED?	
<i>Erodium moschatum</i> (L.) L'Her. ex Ait.*		COR	TOS	MAR		GUA	BEN?	CED?	
<i>Erodium texanum</i> A. Gray			TOS						NAT
<i>Pelargonium × hortorum</i> L. H. Bailey*									
Grossulariaceae									
<i>Ribes tortuosum</i> Benth.			TOS					CED	
<i>Ribes viburnifolium</i> A. Gray			TOS					CED	
Lamiaceae									
<i>Clinopodium palmeri</i> (A. Gray) Kuntze <sup>73</sup>						GUA			
<i>Marrubium vulgare</i> L.*			TOS						
<i>Monardella thymifolia</i> Greene								CED	
<i>Pogogyne tenuiflora</i> A. Gray						GUA			
<i>Salvia cedrosensis</i> Greene								CED	
<i>Salvia columbariae</i> Benth.								CED	
<i>Teucrium glandulosum</i> Kell.								CED	
Loasaceae									
<i>Eucnide cordata</i> Kell.								CED	
<i>Mentzelia adhaerens</i> Bentham								CED	
<i>Mentzelia hirsutissima</i> S. Watson							BEN	CED?	NAT
<i>Mentzelia micrantha</i> (Hook. & Arn.) Torr. & A. Gray	var. <i>nesiotes</i>					GUA			
<i>Petalonyx linearis</i> Greene							BEN	CED	
Malvaceae									
<i>Abutilon californicum</i> Benth.								CED?	NAT?
<i>Eremalche exilis</i> (A. Gray) Greene			TOS				BEN?		NAT
<i>Malva assurgentiflora</i> (Kellogg) M.F. Ray <sup>74*</sup>			TOS						
<i>Malva lindsayi</i> (Moran) M.F. Ray <sup>75</sup>	ssp. <i>assurgentiflora</i>					GUA			
<i>Malva pacifica</i> M.F. Ray <sup>76</sup>					JER		BEN	CED?	NAT
<i>Malva parviflora</i> L.*				MAR		GUA	BEN?	CED?	NAT
<i>Malva occidentalis</i> (S. Watson) M.F. Ray <sup>77</sup>		COR	TOS?			GUA			
<i>Sphaeralcea fulva</i> Greene		COR				GUA		CED	NAT
<i>Sphaeralcea palmeri</i> Jeps.						GUA			
<i>Sphaeralcea sulphurea</i> S. Watson						GUA			

<sup>73</sup>Synonym: *Satureja palmeri* (A. Gray) Briq.<sup>74</sup>Synonym: *Lacatera lindsayi* Moran<sup>75</sup>Synonym: *Lacatera occidentalis* S. Watson<sup>76</sup>Synonym: *Lacatera venosa* S. Watson<sup>77</sup>Synonym: *Lacatera assurgentiflora* Kellogg

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
Montiaceae									
<i>Calandrinia ciliata</i> (Ruiz Lopez & Pavon) DC.									
<i>Cistanthe guadalupensis</i> (Dudley)			TOS	MAR		GUA			
Carolin ex Hershk.						GUA			
<i>Cistanthe maritima</i> (Nutt.) <sup>78</sup>		COR	TOS	MAR		GUA	BEN	GED	NAT
Carolin ex Hershkovitz									
<i>Claytonia parviflora</i> Dougl. ex Hook. <sup>79</sup>	ssp. <i>parviflora</i>					GUA			
<i>Claytonia perfoliata</i> Willd. & Chambers	ssp. <i>mexicana</i> (Rydberg) Miller (Chambers)	COR	TOS	MAR		GUA		GED	
<i>Claytonia spatulata</i> Douglas								GED?	
Myrsinaceae									
<i>Anagallis arvensis</i> L.*						GUA			
Nyctaginaceae									
<i>Abronia maritima</i> Nutt. ex S. Watson				MAR				GED?	NAT
<i>Mirabilis laevis</i> (Benth.) Curran	var. <i>crassifolia</i> (Choisy) Spellenb.	COR	TOS	MAR		GUA	BEN?	GED?	NAT
Oleaceae									
<i>Hesperaloe palmeri</i> A. Gray						GUA			
Onagraceae									
<i>Camissoniopsis cheiranthifolia</i> (Hornem. ex Spreng.) W.L. Wagner & Hoch <sup>80</sup>	ssp. <i>suffruticosa</i> (S. Watson) W.L. Wagner & Hoch			MAR					
<i>Camissoniopsis guadalupensis</i> (S. Watson) W.L. Wagner & Hoch <sup>81</sup>	ssp. <i>guadalupensis</i>					GUA			
<i>Camissoniopsis robusta</i> (P.H. Raven) W.L. Wagner & Hoch <sup>82</sup>						GUA			
<i>Chylisma cardiophylla</i> (Torr.) Small <sup>83</sup>	ssp. <i>cedrosensis</i> (Greene) W.L. Wagner & Hoch							GED	
<i>Eriolobus californica</i> Nutt. ex Torr. & A. Gray <sup>84</sup>			TOS	MAR					
<i>Eriolobus crassifolius</i> (Greene) W.L. Wagner & Hoch <sup>85</sup>								GED?	NAT
<i>Epilobium foliosum</i> (Torr. & A. Gray) Suksdorf						GUA			
<i>Xylougra arborea</i> (Kell.) Domm.-Smith & Rose	ssp. <i>arborea</i>							GED	
<i>Xylougra arborea</i> (Kell.) Domm.-Smith & Rose	ssp. <i>weigginii</i>							GED	
Orobanchaceae									
<i>Castilleja attenuata</i> (A. Gray) Chuang & Heckard						GUA			

<sup>78</sup>Synonymy: *Calandrinia maritima* Nutt.<sup>79</sup>New record; herbarium specimen @ RSA, SD<sup>80</sup>Synonymy: *Camissonia cheiranthifolia* (Hornem. ex Spreng.) Raim. ssp. *suffruticosa* (S. Watson) P.H. Raven<sup>81</sup>Synonymy: *Camissonia guadalupensis* S. Watson) P.H. Raven ssp. *guadalupensis*<sup>82</sup>Synonymy: *Camissonia robusta* P.H. Raven<sup>83</sup>Synonymy: *Camissonia cardiophylla* (Torr.) P.H. Raven ssp. *cedrosensis* (Greene) P.H. Raven<sup>84</sup>Synonymy: *Camissonia californica* (Nutt. ex Torr. & A. Gray) P.H. Raven<sup>85</sup>Synonymy: *Camissonia crassifolia* (Greene) P.H. Raven



## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
<i>Castilleja exserta</i> (A. Heller) Chuang & Heckard	ssp. <i>exserta</i>		TOS			GUA			
<i>Castilleja fruticosa</i> Moran						GUA			
<i>Castilleja gualdalupensis</i> Brandegee						GUA			
<i>Castilleja subinclusa</i> Greene	ssp. <i>subinclusa</i>		TOS						
Papaveraceae									
<i>Eschscholzia californica</i> Cham.		COR	TOS			GUA			
<i>Eschscholzia elegans</i> Greene.						GUA			
<i>Eschscholzia palmeri</i> Rose						GUA			
<i>Eschscholzia ramosa</i> Greene		COR	TOS	MAR		GUA	BEN	GED	NAT
<i>Platystemon californicus</i> Benth.						GUA			
<i>Papaver heterophyllum</i> A. Gray, <sup>86</sup>		COR	TOS	MAR					
Phrymaceae									
<i>Diplacus × australis</i> (McMinn ex Munz) Tuttle <sup>87</sup>			TOS?					GED	
<i>Diplacus brandegeei</i> (Pennell) G.L. Nesom <sup>88</sup>						GUA			
<i>Erythranthe cardinalis</i> <sup>89</sup>								GED	
Plantaginaceae									
<i>Antirrhinum nuttallianum</i> Benth.						GUA		GED	
<i>Antirrhinum watsonii</i> Vasey & Rose	ssp. <i>subsessile</i> (A. Gray) D.M. Thomps.	COR	TOS	MAR		GUA	BEN	GED	NAT
<i>Collinsia heterophylla</i> Buist.	var. <i>heterophylla</i>	COR						GED	
<i>Gambelia juncea</i> (Benth.) D.A. Sutton <sup>90</sup>						GUA		GED?	
<i>Gambelia speciosa</i> Nutt. <sup>91</sup>						GUA		GED?	
<i>Nuttallanthus texanus</i> (Scheele) D.A. Sutton <sup>92</sup>		COR	TOS					GED	
<i>Penstemon cedrosensis</i> Kell.						GUA	BEN?	GED?	NAT
<i>Plantago ovata</i> Forssk.	ssp. <i>insularis</i>					GUA			
Polemoniaceae									
<i>Allophylum giliioides</i> (Benth.) A. & V. Grant						GUA			
<i>Gilia angelensis</i> V.E. Grant									
<i>Gilia capitata</i> Sims	ssp. <i>abrotanifolia</i> (Nutt. ex Greene) V.E. Grant	COR	TOS						
<i>Gilia nevadensis</i> A. Gray						GUA			
<i>Leptosiphon pygmaeus</i> (Brand) J.T. Howell <sup>93</sup>	ssp. <i>pygmaeus</i>					GUA			
<i>Linanthus dianthiflorus</i> (Benth.) Greene		COR							

<sup>86</sup>Synonymy: *Stylomecon heterophylla* (Benth.) G. Taylor<sup>87</sup>Synonymy: *Minidius aurantiacus* Curtis var. *aurantiacus*<sup>88</sup>Synonymy: *Minidius latifolius* A. Gray, *Diplacus latifolius* (A. Gray) G.L. Nesom (Douglas ex Benth.) Spach<sup>89</sup>Synonymy: *Minidius cardinalis* Douglas ex Benth.<sup>90</sup>Synonymy: *Galvezia juncea* (Benth.) Ball<sup>91</sup>Synonymy: *Galvezia speciosa* (Nutt.) A. Gray<sup>92</sup>Synonymy: *Linaria texana* Scheele and *Linaria canadensis* (L.) Dum. Cours.<sup>93</sup>Synonymy: *Linanthus pygmaeus* (Brand) J.T. Howell ssp. *pygmaeus*

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Linanthus uncialis</i> (Brandege) Moran								CED?	
<i>Linanthus veitchii</i> (C. Parry) J.M. Porter & L.A. Johnson	<i>Microsteris gracilis</i> (Hook.) Greene							CED	
Polygonaceae								CED?	
<i>Eriogonum fasciculatum</i> Benth.		COR	TOS					CED	
<i>Eriogonum grande</i> Greene	var. <i>testudinum</i> Reveal		TOS						
<i>Eriogonum intricatum</i> Benth.								CED	
<i>Eriogonum molle</i> Greene								CED	
<i>Eriogonum pondii</i> Greene Torrey ex Benth.								CED	NAT
<i>Eriogonum zapatoense</i> Moran						GUA			
<i>Eriogonum virgatum</i>	var. <i>taxifolium</i> (Greene) Parish							CED	
<i>Harfordia macroptera</i> (Benth.) Greene & Parry	var. <i>fruticosa</i> (Greene) Reveal							CED	
<i>Lastarriata coriacea</i> (Goodman) Hoover <sup>94</sup>								CED?	
<i>Pterostegia drymaroides</i> F. & M.		COR	TOS	MAR		GUA		CED	
Portulacaceae									
<i>Portulaca oleracea</i> L.*									NAT
Primulaceae									
<i>Dodecatheon cleveandii</i> Greene	ssp. <i>insulare</i> (H.J. Thoms.) Reveal					GUA			
Ranunculaceae									
<i>Clematis pauciflora</i> Nutt.		COR	TOS					CED?	
<i>Delphinium cardinale</i> Hook.								CED?	
<i>Delphinium parryi</i> A. Gray		COR	TOS						
<i>Mjosurus minimus</i> L.						GUA			
<i>Ranunculus hebecarpus</i> H. & A.						GUA		CED?	
Resedaceae									
<i>Oligomeris limifolia</i> (Vahl.) Macbr.		COR	TOS			GUA	BEN	CED	NAT
Rhamnaceae									
<i>Ceanothus arborescens</i> Greene						GUA			
<i>Ceanothus crassifolius</i> Torr.						GUA			
<i>Ceanothus cuneatus</i> (Hook.) Nutt.						GUA			
<i>Ceanothus perplexans</i> Trel. <sup>95</sup>						GUA			
<i>Ceanothus terrucosus</i> Nutt.						GUA		CED?	
<i>Rhamnus insula</i> Kellogg								CED?	
<i>Rhamnus pirifolia</i> Greene						GUA			
<i>Ziziphus parryi</i> Torr.	ssp. <i>microphylla</i>							CED?	
Rosaceae									
<i>Adenostoma fasciculatum</i> Hook. & Arn.	var. <i>obtusifolium</i> S. Wats.							CED?	

<sup>94</sup>Synonym: *Chorizanthe corticea* Goodman<sup>95</sup>New record; herbarium specimen @ RSA, SD, SBBC; synonym: *Ceanothus greggii* A. Gray var. *perplexans* (Trel.) Jeps.

## APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	GED	NAT
<i>Aphanes occidentalis</i> Rydberg									
<i>Heteromeles arbutifolia</i> (Lindl.) M. Rocom.		COR	TOS			GUA		GED?	
Rubiaceae									
<i>Galium angulosum</i> A. Gray						GUA			
<i>Galium angustifolium</i> Nutt.	ssp. <i>angustifolium</i>	COR							
<i>Galium aparine</i> L.		COR <sup>96</sup>		MAR		GUA		GED?	
<i>Galium coronadoense</i> Dempster		COR							
<i>Galium stellatum</i> Kellogg	var. <i>eremiticum</i> Hilend & J. Howell							GED	
Rutaceae									
<i>Ruta chalepensis</i> L.						GUA			
Sapindaceae									
<i>Aesculus parryi</i> A. Gray		COR							
Saxifragaceae									
<i>Jepsonia multifolia</i> (Greene) Small						GUA			
Saxifragaceae									
<i>Jepsonia parryi</i> (Torr.) Small.		COR							
Scrophulariaceae									
<i>Myoporum laetum</i> Forst. f. Ngato.*		COR							
<i>Scrophularia villosa</i> Pennell						GUA			
Simmondsiaceae									
<i>Simmondsia chinensis</i> (Link) C. Schneider						GUA		GED	NAT
Solanaceae									
<i>Datura discolor</i> Bernh.									NAT
<i>Datura wrightii</i> Regel									NAT
<i>Lycium andersonii</i> A. Gray				MAR					
<i>Lycium brevipes</i> Benth.				MAR					
<i>Lycium californicum</i> Nutt.	var. <i>brevipes</i>			MAR	JER				
<i>Lycium exsertum</i> A. Gray		COR	TOS	MAR		GUA	BEN?	GED?	NAT
<i>Lycium fremontii</i> A. Gray			TOS	MAR			BEN?	GED?	NAT
<i>Lycopersicon esculentum</i> L.*		COR	TOS			GUA			
<i>Nicotiana attenuata</i> Torr.									
<i>Nicotiana clevelandii</i> A. Gray		COR	TOS	MAR		GUA		GED	NAT
<i>Nicotiana glauca</i> Grah.*						GUA			
<i>Physalis crassifolia</i> Benth.	var. <i>crassifolia</i>		TOS						
<i>Solanum americanum</i> Miller*			TOS	MAR		GUA		GED	
<i>Solanum douglasii</i> Dunal						GUA			
<i>Solanum hindistanum</i> Benth.						GUA			
<i>Solanum nodiflorum</i> Jacq.*		COR							GED

<sup>96</sup>New record; herbarium specimen @ SD.

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Solanum palmieri</i> Vasey & Rose			TOS	MAR					
<i>Solanum wallacei</i> (A. Gray) Parish						GUA			
Tamaricaceae	<i>ssp. clokeji</i>								
<i>Tamarix ramosissima</i> Ledeb.*								CED	
Urticaceae									
<i>Hesperocnide tenella</i> Torrey			TOS	MAR		GUA			
<i>Parietaria hespera</i> B.D. Hinton		COR	TOS			GUA		CED?	
<i>Urtica urens</i> L.*		COR							
Verbenaceae									
<i>Glandularia lilacina</i> (Greene) Umber. <sup>97</sup>								CED	
Viscaceae									
<i>Phoradendron densum</i> Torr. ex Trel.						GUA			
Zygophyllaceae									
<i>Fagonia laevis</i> Standl.								CED	NAT
<i>Viscainoa geniculata</i> (Kellogg) Greene	var. <i>geniculata</i>							CED	
<b>NUMBER OF SPECIES</b>		<b>129</b>	<b>145</b>	<b>107</b>	<b>8</b>	<b>232</b>	<b>57</b>	<b>266</b>	<b>79</b>

<sup>97</sup>Synonym: *Verbena lilacina* Greene

APPENDIX 2. Plant species checklist for the 8 California Channel Islands (Anacapa [ANA], San Clemente [CLE], San Miguel [MIG], San Nicolas [NIC], Santa Barbara [BAR], Santa Catalina [CAT], Santa Cruz [CRU], and Santa Rosa [ROS]). An ampersand (&) indicates an extirpated species; a question mark (?) indicates an unvouchered taxon; and an asterisk (\*) indicates a nonnative species.

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
FERNS									
Azollaceae									
<i>Azolla filiculoides</i> Lam.				CAT					
Blechnaceae									
<i>Woodwardia fimbriata</i> Sm.		CLE? <sup>1</sup>		CAT <sup>2</sup>		ROS	CRU		
Demnstaedtiaceae									
<i>Pteridium aquilinum</i> (L.) Kuhn	var. <i>pubescens</i> Underw.			CAT		ROS	CRU		
Dryopteridaceae									
<i>Dryopteris arguta</i> (Kaulf.) Maxon		CLE		CAT		ROS	CRU	ANA	MIG
<i>Polystichum munifolium</i> (Kaulf.) C. Presl						ROS	CRU		
Equisetaceae									
<i>Equisetum hyemale</i> L.						ROS	CRU		
	ssp. <i>affine</i> (Engelm.) Calder & Roy L. Taylor					ROS	CRU		
<i>Equisetum laevigatum</i> A. Braun				CAT		ROS	CRU		
<i>Equisetum telmateia</i> Ehrh.	ssp. <i>braunii</i> (J. Milde) Hauke			CAT		ROS	CRU		
Polypodiaceae									
<i>Polypodium californicum</i> Kaulf.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Polypodium scolopendri</i> Hook. & Grev.						ROS	CRU		
Pteridaceae									
<i>Adiantum aleuticum</i> (Rupr.) C.A. Paris						ROS	CRU	ANA	
<i>Adiantum capillus-veneris</i> L.				CAT		ROS	CRU	ANA	
<i>Adiantum jordanae</i> Müll. Hal.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Aspidotis californica</i> (Hook.) Copel.				CAT		ROS	CRU		
<i>Cheilanthes cleveandii</i> D.C. Eaton						ROS	CRU		
<i>Cheilanthes cooperae</i> D.C. Eaton						ROS	CRU		
<i>Cheilanthes neuberryi</i> (D.C. Eaton) Domin		CLE					CRU		
<i>Pellaea andromedifolia</i> (Kaulf.) Fée		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Pellaea mucronata</i> (D.C. Eaton)	var. <i>mucronata</i>	CLE? <sup>3</sup>		CAT		ROS	CRU		
D.C. Eaton									
<i>Pentagramma triangularis</i> (Kaulf.) Yatsk., Windham, & E. Wollenw.	ssp. <i>triangularis</i>	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Pentagramma triangularis</i> (Kaulf.) Yatsk., Windham, & E. Wollenw.	ssp. <i>ciscosa</i> (D.C. Eaton) Yatsk. et al.	CLE		CAT		ROS	CRU		
Windham, & E. Wollenw.									
Selaginellaceae									
<i>Selaginella bigelovii</i> Underw.		CLE		CAT		ROS	CRU	ANA	

<sup>1</sup>Pers. com. E. Howe

<sup>2</sup>S. Ratay collection

<sup>3</sup>Pers. com. E. Howe

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Woodsiaceae									
<i>Athyrium filix-femina</i> (L.) Roth						ROS	CRU		
<i>Cystopteris fragilis</i> (L.) Bernh.	var. <i>cyclosorum</i> Rupr.						CRU		
GYMNOSPERMS									
Cupressaceae									
<i>Hesperocyparis macrocarpa</i> (Hartw.) Bartel*				CAT		ROS	CRU	ANA	
Pinaceae									
<i>Pinus muricata</i> D. Don	var. <i>muricata</i>					ROS	CRU		
<i>Pinus pinea</i> L.*							CRU		
<i>Pinus radiata</i> D. Don*									MIG
<i>Pinus torreyana</i> Parry ex Carrière	ssp. <i>insularis</i> J.R. Haller					ROS			
MONOCOTS									
Agavaceae									
<i>Agave americana</i> L.*							CRU		
Agavaceae									
<i>Chlorogalum pomeridianum</i> (DC.) Kunth				CAT		ROS			
Alliaceae									
<i>Allium lacunosum</i> S. Watson	var. <i>lacunosum</i>					ROS	CRU		
<i>Allium praecox</i> Brandegee		CLE		CAT		ROS	CRU		MIG
Amaryllidaceae									
<i>Amaryllis belladonna</i> L.*								ANA	MIG
<i>Narcissus tazetta</i> L.*							CRU		
Araceae									
<i>Lemna minor</i> L.									MIG
<i>Zantedeschia aethiopica</i> (L.) Spreng.*									MIG
Arecaceae									
<i>Washingtonia filifera</i> (André) de Bary							CRU		MIG
Asparagaceae									
<i>Asparagus asparagoides</i> (L.) Druce*			NIC						
<i>Asparagus officinalis</i> L.*				CAT					
Asphodelaceae									
<i>Asphodelus fistulosus</i> L.*		CLE <sup>4</sup>							
Cyperaceae									
<i>Bolboschoenus maritimus</i> (L.) Palla	ssp. <i>paludosus</i> (A. Nelson) T. Koyama						CRU		MIG
<i>Carex barbarae</i> Dewey							CRU		
<i>Carex globosa</i> Boott				CAT		ROS	CRU		
<i>Carex gracilior</i> Mack.						ROS			
<i>Carex harfordii</i> Mack.						ROS	CRU		

<sup>4</sup>NY: T.S. Ross, 6137, 04.13.1992

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Carex pansa</i> L. H. Bailey						ROS			MIG
<i>Carex praegracilis</i> W. Boott				CAT		ROS			MIG
<i>Carex senta</i> Boott							CRU		
<i>Carex subbracteata</i> Mack.						ROS	CRU		
<i>Carex triquetra</i> Boott				CAT					
<i>Carex tumulicola</i> Mack.		CLE				ROS	CRU		
<i>Cyperus eragrostis</i> Lam.				CAT <sup>5</sup>					
<i>Cyperus esculentus</i> L.		CLE		CAT			CRU		
<i>Cyperus involucreatus</i> Rottb.*									
<i>Cyperus odoratus</i> L.*				CAT <sup>6</sup>			CRU		
<i>Eleocharis macrostachya</i> Britton				CAT		ROS			
<i>Isolepis cernua</i> (Vahl) Roem. & Schult.		CLE	NIC			ROS			MIG
<i>Schoenoplectus americanus</i> (Pers.) Schinz & R. Keller			NIC	CAT <sup>7</sup>		ROS			
<i>Schoenoplectus californicus</i> (C.A. Mey.) Soják						ROS	CRU		
<i>Schoenoplectus pungens</i> (Vahl) Palla						ROS	CRU		
Iridaceae									
<i>Sisyrinchium bellum</i> S. Watson	var. <i>longispicatus</i> (Britton) S.G. Sm.			CAT		ROS	CRU		MIG
Juncaceae									
<i>Juncus acutus</i> L.	ssp. <i>leopoldii</i> (Pard.) Snogerup			CAT					
<i>Juncus balticus</i> Willd.	ssp. <i>ater</i> (Rydb.) Snogerup			CAT		ROS			MIG
<i>Juncus bufonius</i> L.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Juncus effusus</i> L.	ssp. <i>pacificus</i> (Fernald & Weigand) Piper & Beattie					ROS			
<i>Juncus mexicanus</i> Willd.				CAT		ROS	CRU		MIG
<i>Juncus patens</i> E. Mey.						ROS	CRU		MIG
<i>Juncus phaeocephalus</i> Engelm.	var. <i>phaeocephalus</i>					ROS			
<i>Juncus texilis</i> Buchenau				CAT					
<i>Juncus xiphioides</i> E. Mey.				CAT			CRU		
<i>Luzula subsessilis</i> (S. Watson) Buchenau <sup>5</sup>						ROS	CRU		
Liliaceae									
<i>Calochortus albus</i> (Benth.) Benth.		CLE				ROS	CRU		
<i>Calochortus catalinae</i> S. Watson				CAT		ROS	CRU		
<i>Calochortus luteus</i> Lindl.				CAT			CRU		
<i>Calochortus splendens</i> Benth.									
<i>Lilium humboldtii</i> Duch.	ssp. <i>ocellatum</i> (Kellogg) Thorne			CAT		ROS	CRU	ANA	

<sup>5</sup>RSA: Mark Hoefs, Steven A. Junak, Janet Takara, M. Gay, 2384, Jul 14 1995<sup>6</sup>SBBG: M.L. Hoefs, R.F. Thorne, 2458, Jul 26 1995<sup>7</sup>RSA: Mark Hoefs, R.F. Thorne, Janet Takara Jul 26 1995 2462<sup>8</sup>Synonym: *Luzula comosa* E. Mey.; taxonomic issues

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Melanthiaceae									
<i>Toxicoscordion fremontii</i> (Torr.) Rydb.						ROS	CRU	ANA	MIG
Orchidaceae									
<i>Epipactis gigantea</i> Hook.		CLE? <sup>9</sup>		CAT			CRU		
<i>Piperia cooperi</i> (S. Watson) Rydb.				CAT <sup>10</sup>		ROS	CRU		
<i>Piperia elongata</i> Rydb.							CRU		
<i>Piperia michaelii</i> (Greene) Rydb.									
Poaceae									
<i>Aegilops cylindrica</i> Host*							CRU		
<i>Agrostis exarata</i> Trin.				CAT		ROS	CRU		
<i>Agrostis pallens</i> Trin.		CLE		CAT		ROS	CRU	ANA	
<i>Agrostis stolonifera</i> * L.				CAT					
<i>Amnophila arenaria</i> (L.) Link*			NIC						
<i>Andropogon glomeratus</i> (Walter) Britton et al.	var. <i>scabrigitum</i> C.S. Campb.						CRU		
<i>Aristida adscensionis</i> L.		CLE		CAT		ROS	CRU		
<i>Aristida temipes</i> Cav.	var. <i>gentilis</i> (Hemard) Allred						CRU		
<i>Arundo donax</i> L.*			NIC			ROS	CRU		MIG
<i>Avena barbata</i> Link*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Avena fatua</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Avena sativa</i> L.*		CLE	NIC	CAT		ROS	CRU		
<i>Bothriochloa barbinoadis</i> (Lag.) Herter				CAT					
<i>Brachypodium distachyon</i> (L.) P. Beauv.*		CLE? <sup>11</sup>	NIC	CAT			CRU		
<i>Briza minor</i> L.*								ANA	
<i>Bromus arizonicus</i> (Shear) Stebbins		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus berteroaenus</i> Colla <sup>12</sup>		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus carinatus</i> Hook. & Arn.	var. <i>carinatus</i>	CLE? <sup>13</sup>	NIC	CAT		ROS	CRU	ANA	MIG
<i>Bromus maritimus</i> (Piper) Hitchc.						ROS	CRU	ANA	MIG
<i>Bromus catharticus</i> Vahl*							CRU		
* <i>Bromus diandrus</i> Roth*		CLE <sup>13</sup>	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus hordeaceus</i> L.* <sup>14</sup>		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus laevipes</i> Shear*				CAT		ROS	CRU	ANA	MIG
<i>Bromus madritensis</i> L.*				CAT		ROS	CRU	ANA	MIG
<i>Bromus vulgaris</i> (Hook.) Shear <sup>15*</sup>		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Calamagrostis rubescens</i> Buckley				CAT					
							CRU		

<sup>9</sup>Pers. com. E. Howe<sup>10</sup>SBBC; S.A. Jumaik Apr. 30 1998 SCa-568<sup>11</sup>Pers. com. E. Howe<sup>12</sup>Synonym: *Bromus trisii* Desv.; Per Jepson interchange: molecular evidence needed to resolve question of nativity<sup>13</sup>SBBC; T.S. Ross, E. Kellogg Apr 11 1982 6122<sup>14</sup>Synonym: *Bromus nudis* L.<sup>15</sup>UCSB; Dian Hancock 03/30/1961 146



## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Chloris virgata</i> Sw.*		CLE <sup>16</sup>							
<i>Cortaderia seloana</i> (Schult. & Schult. f.) Asch. & Graebn.*		CLE? <sup>17</sup>	NIC	CAT			CRU		MIG
<i>Crypsis vaginiflora</i> (Forssk.) Opiz*				CAT <sup>18</sup>					
<i>Crypsis alopecuroides</i> (Piller & Mitterp.) Schrad.*		CLE? <sup>19</sup>							
<i>Cynodon dactylon</i> (L.) Pers.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Dactylis glomerata</i> L.*		CLE		CAT			CRU		
<i>Danthonia californica</i> Bol.						ROS			
<i>Deschampsia danthonioides</i> (Trin.) Munro									
<i>Desmazeria rigida</i> (L.) Tutin*		CLE		CAT <sup>20</sup>					
<i>Digitaria sanguinalis</i> (L.) Scop.*				CAT <sup>21</sup>					
<i>Dissantheium californicum</i> (Nutt.) Benth.				CAT					
<i>Distichlis spicata</i> (L.) Greene		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Distichlis littoralis</i> (Engelm.) H.L.				CAT		ROS			
Bell & Columbus									
<i>Echinochloa crus-galli</i> (L.) P. Beauv.*		CLE		CAT					
<i>Ehrharta calycina</i> * Sm.		CLE		CAT					
<i>Ehrharta erecta</i> Lam.*				CAT <sup>22</sup>			CRU		
<i>Elymus glaucus</i> Buckley				CAT		ROS	CRU		
<i>Elymus repens</i> (L.) Gould*	ssp. <i>glaucus</i>								MIG
<i>Elymus condensatus</i> J. Presl		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Elymus pacificus</i> Gould			NIC			ROS			MIG
<i>Elymus triticoides</i> Buckley			NIC	CAT		ROS	CRU	ANA	MIG
<i>Festuca arundinacea</i> Schreb.*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Festuca perennis</i> (L.) Columbus & J.P. Sm.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Festuca temulenta</i> (L.) Columbus & J.P. Sm.*		CLE		CAT		ROS	CRU		
<i>Festuca bromoides</i> L.*		CLE		CAT		ROS	CRU	ANA	MIG
<i>Festuca microstachys</i> Nutt.		CLE		CAT		ROS	CRU	ANA	MIG
<i>Festuca myuros</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Festuca octoflora</i> Walter		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Gastridium phleoides</i> (Nees & Meyen) C.E. Hubb.*		CLE		CAT		ROS	CRU		
<i>Hainardia cylindrica</i> (Willd.) Greuter*		CLE <sup>23</sup>		CAT <sup>24</sup>		ROS	CRU		MIG

<sup>16</sup>CAS: Steven A. Jumaik 9 Nov 1990 SCI-143<sup>17</sup>Pers. com. E. Howe<sup>18</sup>RSA: Mark Hoefs, R.F. Thorne, Janet Takara, M. Cay Jul 27 1995 2491<sup>19</sup>Pers. com. E. Howe<sup>20</sup>CAS: Peter H. Raven 22 May 1962 17826<sup>21</sup>UCD: Beecher Crampton 05 10 1968 S322<sup>22</sup>SSBG: S.A. Jumaik Jun 13 1998 SCa-743<sup>23</sup>SBBG: S.A. Jumaik May 14 1985 SCI-71<sup>24</sup>SBBG: S.A. Jumaik, M. L. Hoefs Jun 4 1997 SCa-421

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Hordeum brachyantherum</i> Nevski	ssp. <i>californicum</i> (Covas & Stebbins) Bothmer et al.		NIC	CAT <sup>25</sup>		ROS	CRU	ANA	MIG
<i>Hordeum depressum</i> (Scribn. & J.G. Sm.) Rydb.		CLE <sup>26</sup>	NIC	CAT <sup>27</sup>	BAR	ROS	CRU	ANA	MIG
<i>Hordeum intercedens</i> Nevski		CLE <sup>28</sup>	NIC			ROS	CRU	ANA	MIG
<i>Hordeum marinum</i> Huds.*	ssp. <i>gissoneanum</i> (Parl.) Thell.	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Hordeum murinum</i> L.*	ssp. <i>glaucom</i> (Steud.) Tzvelev	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Hordeum murinum</i> L.*	ssp. <i>leporinum</i> (Link) Arcang.	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Hordeum vulgare</i> L.		CLE	NIC			ROS	CRU		
<i>Koeleria macrantha</i> (Ledeb.) Schult.									
<i>Koeleria gerardii</i> (Vill.) Shimmers*									
<i>Lamarckia aurea</i> (L.) Moench*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Melica imperfecta</i> Trin.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Muhlenbergia appressa</i> C.O. Goodd.		CLE							
<i>Muhlenbergia microsperma</i> (DC.) Kunth		CLE <sup>29</sup>							
<i>Parapholis incurva</i> (L.) C.E. Hubb.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Paspalum dilatatum</i> Poir.*		CLE		CAT		ROS	CRU	ANA	MIG
<i>Paspalum distichum</i> L.				CAT			CRU		
<i>Pennisetum clandestinum</i> Chiov.*			NIC			ROS	CRU	ANA	MIG
<i>Pennisetum setaceum</i> (Forssk.) Chiov.*		CLE		CAT <sup>30</sup>					
<i>Phalaris aquatica</i> L.*			NIC	CAT			CRU	ANA	
<i>Phalaris canariensis</i> L.				CAT					
<i>Phalaris caroliniana</i> Walter*		CLE	NIC	CAT	BAR		CRU		
<i>Phalaris lemmonii</i> Vasey		CLE		CAT		ROS			
<i>Phalaris minor</i> Retz.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Phalaris paradoxae</i> * L.		CLE	NIC	CAT <sup>31</sup>		ROS	CRU	ANA	MIG
<i>Poa annua</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Poa palustris</i> L.*				CAT			CRU		
<i>Poa howellii</i> Vasey & Scribn.						ROS			
<i>Poa douglasii</i> Nees									
<i>Poa secunda</i> J. Presl		CLE <sup>32</sup>	NIC	CAT <sup>33</sup>		ROS	CRU	ANA	MIG
<i>Polygogon viridis</i> (Gouan) Breistr.*				CAT	BAR	ROS	CRU	ANA	MIG
<i>Polygogon interruptus</i> Kunth*		CLE		CAT		ROS	CRU		MIG

25SBBG: L.W. Nuttall May 12 1920 190

26POM: F.A. Munz Apr 8 1923 6613

27SBBG: S.A. Jumaik May 3 2001 SCA-1464

28SBBG: P.H. Raven May 10 1962 17738

29CAS: E.R. Bickley 7 Dec. 1963 6327

30S: Ratay collection

31SBBG: S.A. Jumaik, M.L. Hoels Jun 5 1997 SCA-427

32UC: Peter H. Raven Apr 12 1962 17332

33UC: F.R. Fosberg Mar 20 1931 54310

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Polygomon monspeliensis</i> (L.) Desf.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Schismus arabicus</i> Nees*		CLE <sup>34</sup>	NIC	CAT <sup>35</sup>	BAR	ROS	CRU	ANA	MIG
<i>Schismus barbatus</i> (L.) Thell.*			NIC	CAT	BAR		CRU		
<i>Stenotaphrum secundatum</i> (Walter) Kuntze*			NIC						
<i>Stipa diegoensis</i> Swallen			NIC			ROS	CRU	ANA	MIG
<i>Stipa ceruua</i> Stebbins & Love		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Stipa lepida</i> Hitchc.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Stipa pulchra</i> Hitchc.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Stipa miliacea</i> (L.) Hoover*	var. <i>miliacea</i>	CLE	NIC	CAT <sup>36</sup>		ROS	CRU	ANA	MIG
<i>Triticum aestivum</i> L.*		CLE	NIC						
Potamogetonaceae									
<i>Potamogeton crispus</i> L.*				CAT					
<i>Stuckenia pectinata</i> (L.) Börner		CLE <sup>2,37</sup>		CAT		ROS	CRU		
Ruppiaaceae									
<i>Ruppia maritima</i> L.		CLE	NIC	CAT		ROS	CRU		
Themiaceae									
<i>Bloomeria crocea</i> (Torr.) Coville				CAT		ROS	CRU		
<i>Brodiaea jolonensis</i> Eastw.				CAT		ROS	CRU		MIG
<i>Brodiaea kinkiensis</i> T.F. Niehaus		CLE							
<i>Dichelostemma capitatum</i> (Benth.) Alph. Wood		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Friteleia clementina</i> Hoover		CLE					CRU		
<i>Friteleia hyacinthina</i> (Lindl.) Greene									
Typhaceae									
<i>Typha angustifolia</i> L. <sup>38</sup> ?		CLE							
<i>Typha domingensis</i> Pers.		CLE <sup>39</sup>	NIC	CAT		ROS	CRU		MIG
<i>Typha latifolia</i> L.		CLE	NIC	CAT			CRU		
Zanichelliaceae									
<i>Zanichellia palustris</i> L.				CAT <sup>40</sup>			CRU		
Zosteraceae									
<i>Phyllospadix scouleri</i> Hook.		CLE	NIC	CAT	BAR		CRU	ANA	MIG
<i>Phyllospadix torreyi</i> S. Watson		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Zostera marina</i> L.		CLE <sup>2,41</sup>		CAT		ROS	CRU	ANA	MIG
<i>Zostera pacifica</i> S. Watson			NIC	CAT <sup>42</sup>		ROS	CRU	ANA <sup>43</sup>	

34RSA: E. Kellogg Jun 12 1962 s.n.

35SBBG: S.A. Junaik Mar 22 1998 SCA-512

36SD: Robert F. Thorne Sep 14, 1966 36643

37Pers. com. E. Howe

38Pers. com. E. Howe

39SBBG: P.H. Raven Jul 11 1962 18018

40U.C.: Carl B. Wolf May 12 1932

41Pers. com. E. Howe

42RSA: R.F. Thorne Sep 16 1966 36714

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
BASAL DICOTS									
Saururaceae									
<i>Anemopsis californica</i> (Nutt.) Hook. & Arn.		CLE	NIC	CAT			CRU		
EUDICOTS									
Adoxaceae									
<i>Sambucus nigra</i> L.	<i>ssp. caerulea</i> (Raf.) Bolla	CLE		CAT		ROS	CRU		
Aizoaceae									
<i>Carpobrotus chilensis</i> (Molina) N.E. Br.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Carpobrotus edulis</i> * (L.) N.E. Br.		CLE <sup>44</sup>	NIC	CAT <sup>45</sup>		ROS	CRU	ANA	
<i>Delosperma litorale</i> * (Kensit) L. Bolus		CLE <sup>46</sup>	NIC					ANA	
<i>Malephora crocea</i> * (Jacq.) Schwantes		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Mesembryanthemum crystallinum</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Mesembryanthemum nodiflorum</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Sesuvium verrucosum</i> Raf.		CLE							
<i>Tetragonia tetragonioides</i> (Pall.) Kuntze*			NIC			ROS	CRU	ANA	MIG
Amaranthaceae									
<i>Amaranthus albus</i> L.*				CAT		ROS	CRU	ANA	
<i>Amaranthus blitoides</i> S. Watson						ROS	CRU		
<i>Amaranthus deflexus</i> L.*				CAT			CRU		
<i>Amaranthus powellii</i> S. Watson							CRU	ANA	
<i>Malosma laurina</i> (Nutt.) Abrams		CLE		CAT					
<i>Rhus integrifolia</i> (Nutt.) Rothr.		CLE		CAT		ROS	CRU	ANA	MIG
<i>Rhus ovata</i> S. Watson		CLE <sup>47,48</sup>		CAT			CRU		
<i>Schinus molle</i> L.*		CLE	NIC	CAT		ROS	CRU		
<i>Toxicodendron diversilobum</i> (Torr. & A. Gray) Greene		CLE	NIC	CAT		ROS	CRU	ANA	MIG
Apiaceae									
<i>Apiastrum angustifolium</i> Nutt.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Apium graveolens</i> L.*		CLE	NIC		BAR	ROS	CRU		
<i>Berula erecta</i> (Huds.) Coville			NIC				CRU		MIG
<i>Bowlesia incana</i> Ruiz & Pav.		CLE		CAT		ROS	CRU		
<i>Contium maculatum</i> L.*			NIC	CAT			CRU		
<i>Daucus carota</i> L.*			NIC						
<i>Daucus pusillus</i> Michx.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Foeniculum vulgare</i> Mill.*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Lomatium caruifolium</i> (Hook. & Arn.) J.M. Coult. & Rose						ROS	CRU		MIG

43RSA; M.B. Dunkle Aug 20 1940 7671

44RSA; PH. Raven Jul 12 1962 18045

45POM; FR. Fishberg, 4732, Apr 29 1931

46SBBG; S.A. Jumaik Aug 26 1997 SCI-936

47Pers. com. E. Howe

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Lomatium insulare</i> (Eastw.) Munz		CLE	NIC						
<i>Sanicula arguta</i> J.M. Coult. & Rose		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Sanicula crassicaulis</i> DC.		CLE <sup>2,48</sup>		CAT		ROS	CRU		
<i>Sanicula hoffmannii</i> (Munz) R.H. Shan & Constance						ROS	CRU		
<i>Torilis arvensis</i> (Huds.) Link*							CRU		
<i>Torilis nodosa</i> (L.) Gaertn.*			NIC	CAT		ROS	CRU		MIG
<i>Yabea microcarpa</i> (Hook. & Arn.) Koso-Pol. Apocynaceae		CLE <sup>49</sup>		CAT <sup>50</sup>			CRU		
<i>Asclepias fascicularis</i> Decne.				CAT		ROS	CRU		
<i>Funastrum cynanchoides</i> (Decne.) Schltr.	var. <i>hartwegii</i> (Vail) Krings			CAT					
<i>Vinca major</i> L.*				CAT			CRU		
Asteraceae <i>Achillea millefolium</i> L.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Achyrochaena mollis</i> Schauer		CLE		CAT <sup>51</sup>		ROS	CRU		
<i>Acurtia microcephala</i> DC.				CAT		ROS	CRU		
<i>Agoseris apargioides</i> (Less.) Greene	var. <i>apargioides</i>					ROS			
<i>Agoseris grandiflora</i> (Nutt.) Greene						ROS	CRU		MIG
<i>Agoseris heterophylla</i> (Nutt.) Greene						ROS			
<i>Ambligopappus pusillus</i> Hook. & Arn.						ROS	CRU	ANA	MIG
<i>Ambrosia chamissonis</i> (Less.) Greene		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Ambrosia psilostachya</i> DC.		CLE	NIC	CAT		ROS	CRU		MIG
<i>Anthemis cotula</i> L.*				CAT		ROS	CRU		
<i>Arctium minus</i> (Hill) Bernh.*				CAT		ROS			
<i>Argyranthemum frutescens</i> (L.) Sch. Bip.*				CAT		ROS			
<i>Artemisia californica</i> Less.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Artemisia douglasiana</i> Besser				CAT		ROS	CRU		
<i>Artemisia dracunculula</i> L.				CAT					
<i>Artemisia nesiotica</i> P.H. Raven		CLE	NIC		BAR				
<i>Baccharis glutinosa</i> Pers. <sup>52</sup>		CLE		CAT		ROS	CRU		MIG
<i>Baccharis salicina</i> Torr. & A. Gray		CLE <sup>53</sup>		CAT	BAR				
<i>Baccharis pilularis</i> DC.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Baccharis plummerae</i> A. Gray	ssp. <i>plummerae</i>						CRU	ANA	
							CRU	ANA	

<sup>48</sup>Pers. com. E. Howe<sup>49</sup>POM: PA. Munz Apr 9 1923 6652<sup>50</sup>UCD: Robert F. Thorne 04 28 1966 36224<sup>51</sup>CAS: Tim Ross, J. Takara, Stacey Otte 24 April 1993 6946<sup>52</sup>Synonym: *Baccharis douglasii* DC.<sup>53</sup>DS: Ira L. Wiggins Feb. 22, 1949 11961

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Baccharis salicifolia</i> (Ruiz & Pav.) Pers.									
<i>Baccharis sarothroides</i> A. Gray		CLE <sup>54</sup>	NIC	CAT <sup>55</sup>		ROS	CRU	ANA	MIG
<i>Bahopsis laciniata</i> (A. Gray) E. E. Schilling & Panero <sup>56</sup> ?		CLE		CAT					
<i>Blennosperma nanum</i> (Hook.) S.F. Blake	var. <i>nanum</i>						CRU		
<i>Brickellia californica</i> (Torr. & A. Gray) A. Gray		CLE <sup>57</sup>	NIC	CAT			CRU	ANA	
<i>Calceuthla officinalis</i> L.*									
<i>Carduus pycnocephalus</i> L.*				CAT <sup>58</sup>		ROS			MIG
<i>Centaurea melitensis</i> L.*		CLE	NIC	CAT	BAR <sup>59</sup>	ROS	CRU	ANA	MIG
<i>Centaurea solstitialis</i> L.*			NIC	CAT			CRU		
<i>Centaurea benedicta</i> (L.) L.*							CRU		
<i>Centromadia pungens</i> (Hook. & Arn.) Greene				CAT <sup>60</sup>					
<i>Centromadia fitchii</i> (A. Gray) Greene						ROS	CRU		
<i>Chaenactis glabruscula</i>	var. <i>lanosa</i> (DC.) H.M. Hall								
<i>Cichorium intybus</i> L.*							CRU		
<i>Cirsium brevistylum</i> Cronquist							CRU		
<i>Cirsium occidentale</i> (Nutt.) Jeps.	var. <i>californicum</i> (A. Gray) D.J. Keil & C.E. Fumer			CAT <sup>61</sup>		ROS	CRU		
<i>Cirsium occidentale</i> (Nutt.) Jeps.	var. <i>coulteri</i>	CLE <sup>62</sup>							
<i>Cirsium occidentale</i> (Nutt.) Jeps.	var. <i>occidentale</i>	CLE <sup>63</sup>	NIC	CAT <sup>64</sup>		ROS	CRU		MIG
<i>Cirsium occidentale</i> (Nutt.) Jeps.	var. <i>venustum</i> (Greene)					ROS			
<i>Cirsium ochrocentrum</i> A. Gray*						ROS			
<i>Cirsium vulgare</i> (Savi) Ten.*				CAT		ROS	CRU		MIG
<i>Constancea nevini</i> (A. Gray) B.G. Baldwin				CAT	BAR				
<i>Corethrogyne filaginifolia</i> (Hook. & Arn.) Nutt.				CAT <sup>65</sup>		ROS	CRU	ANA	MIG
<i>Cotula australis</i> (Spreng.) Hook. f.*				CAT	BAR	ROS	CRU	ANA	
<i>Cotula coronopifolia</i> L.*		CLE <sup>66</sup>		CAT		ROS	CRU	ANA	MIG
<i>Cymara cardunculus</i> L.*		CLE <sup>67,68</sup>	NIC	CAT		ROS	CRU	ANA	MIG
			NIC	CAT <sup>68</sup>					

54SD: Peter H. Raven May 08, 1962 17629

55HSC: James Henrickson Jan 1973 8113

56Pers. com. E. Howe

57CAS: Steven A. Junak 2 Oct 1996 SCI- 703

58SBBG: S.A. Junak, M.L. Hoefs, R.N. Phalbrick, SCA-1532, May 18 2001

59RSA: R.F.Thorne, 37492, Apr 28 1968, suspected incorrect georeferencing

60RSA:Mark Hoefs, 309, Jun 4 1973

61SD: Robert F. Thorne, F. Everett Jun 23, 1965 35015

62SBBG: T. Ross, O. Mistretta, M. Hammit May 20 1991 5325

63UCR: Steve Boyd, T.S. Ross, Laurel Arnselth, Apr 7 1990 4271

64UCR: FR. Fosberg Apr 29 1931 S-4709

65SBBG: E.R. Bladley, Sep 23 1961 4740

66SBBG: S.A. Junak Feb 25 1997 SCI-724

67Pers. com. E. Howe

68SBBG: S.A. Junak, M.L. Hoefs, K. Kirkland

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Deinandra clementina</i> (Brandege) B.G. Baldwin		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Deinandra fasciculata</i> (DC.) Greene		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Deinandra increscens</i> (D.D. Keck) B.G. Baldwin	ssp. <i>increscens</i>				BAR	ROS	CRU	ANA	
<i>Delairea odorata</i> Lem.*						ROS		ANA	
<i>Encelia californica</i> Nutt.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Ericameria ericoides</i> (Less.) Jeps.						ROS	CRU	ANA	
<i>Ericameria palmieri</i> (A. Gray) H.M. Hall	var. <i>pachylepis</i> (H.M. Hall) G.L. Nesom			CAT					
<i>Erigeron bonariensis</i> L.*		CLE <sup>69</sup>	NIC	CAT <sup>70</sup>	BAR	ROS	CRU	ANA	MIG
<i>Erigeron canadensis</i> L.		CLE <sup>71</sup>	NIC	CAT <sup>72</sup>	BAR	ROS	CRU	ANA	MIG
<i>Erigeron foliosus</i> Nutt.	var. <i>foliosus</i>			CAT		ROS	CRU	ANA	MIG
<i>Erigeron glaucus</i> Ker Gawl.						ROS	CRU	ANA	MIG
<i>Erigeron sanctarum</i> S. Watson						ROS	CRU		
<i>Eriophyllum confertiflorum</i> (DC.) A. Gray	var. <i>confertiflorum</i>	CLE		CAT <sup>73</sup>		ROS	CRU	ANA	MIG
<i>Eriophyllum staechadifolium</i> Lag.						ROS	CRU	ANA	MIG
<i>Erythra radulina</i> (A. Gray) G.L. Nesom						ROS	CRU		
<i>Euthamia occidentalis</i> Nutt.								ANA	
<i>Gnaphaeta ustulata</i> (Nutt.) Holub		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Glebionis coronaria</i> (L.) Spach* <sup>74</sup>		CLE	NIC	CAT			CRU		
<i>Gnaphalium palustre</i> Nutt.							CRU		
<i>Grindelia camporum</i> Greene				CAT		ROS	CRU	ANA	
<i>Grindelia hirsutula</i> Hook. & Arn.			NIC <sup>75</sup>			ROS			
<i>Grindelia stricta</i> DC.						ROS	CRU	ANA	MIG?
<i>Hazardia cana</i> (A. Gray) Greene	var. <i>platyphylla</i> (Greene) M.A. Lane	CLE							
<i>Hazardia detonsa</i> (Greene) Greene						ROS	CRU	ANA	
<i>Hazardia squarrosa</i> (Hook. & Arn.) Greene	var. <i>grindelioides</i> (DC.) W.D. Clark			CAT	BAR	ROS	CRU	ANA	MIG
<i>Hedynotis cretica</i> (L.) Dum. Cours.*		CLE <sup>76</sup>							
<i>Helianthus puberulum</i> DC.				CAT <sup>77</sup>					
<i>Helianthus annuus</i> L.*		CLE <sup>78</sup>	NIC	CAT <sup>79</sup>			CRU	ANA	
<i>Helminthotheca echioides</i> (L.) Holub*			NIC	CAT			CRU		
<i>Hesperetax sparsiflora</i> (A. Gray) Greene		CLE <sup>80</sup>				ROS			

<sup>69</sup>SBBC: S.A. Jumaik, SCL-681, Sep 29 1996<sup>70</sup>POM: ER. Fosberg, 5364, Jul 10 1931<sup>71</sup>SBBC: S.A. Jumaik Oct 28 1987 SCL-981<sup>72</sup>SBBC: S.A. Jumaik, K. Kirkland, M. Boshman Oct 21 1998 SCA-813<sup>73</sup>BSA: Mark Hoefs, D. Probst Mar 14 1973 119<sup>74</sup>Synonym: *Chrysanthemum coronarium* L.<sup>75</sup>UC: R.M. Beauchamp and H.A. Wier Jun 29 1978<sup>76</sup>CAS: Steven A. Jumaik 16 May 1996 SCL-470<sup>77</sup>DS: A.J. McClatchie Sept. 1893 s.n.<sup>78</sup>SBBC: H.L. Ferguson, R.M. Beauchamp Sep 15 1979 14<sup>79</sup>POM: L.W. Nuttall, s.n., May 22 1920<sup>80</sup>SBBC: S.A. Jumaik Mar 13 1987 SCL-784

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Heterotheca grandiflora</i> Nutt.		CLE	NIC	CAT		ROS	CRU		MIG
<i>Hieracium argutum</i> Nutt.		CLE	NIC	CAT		ROS	CRU		MIG
<i>Hypochaeris glabra</i> L.*		CLE		CAT		ROS	CRU	ANA	
<i>Hypochaeris radicata</i> L.*		CLE	NIC						
<i>Isoetes menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>decumbens</i> (Greene) G.L. Nesom	CLE		CAT <sup>81</sup>					
<i>Isoetes menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>menziesii</i>	CLE <sup>82</sup>	NIC	CAT <sup>83</sup>					
<i>Isoetes menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>sedoides</i> (Greene) G.L. Nesom	CLE	NIC	CAT <sup>84</sup>		ROS	CRU	ANA	MIG
<i>Isoetes menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>vernonioides</i> (Nutt.) G.L. Nesom	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Jaumea carnosa</i> (Less.) A. Gray				CAT		ROS	CRU		MIG
<i>Lactuca saligna</i> L.*				CAT <sup>85</sup>		ROS	CRU		MIG
<i>Lactuca serriola</i> L.*		CLE <sup>86</sup>	NIC	CAT		ROS	CRU	ANA	MIG
<i>Laennecia coulteri</i> (A. Gray) G.L. Nesom		CLE <sup>87</sup>		CAT	BAR				MIG
<i>Lasthenia californica</i> Lindl.		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Lasthenia glabrata</i> Lindl.				CAT	BAR	ROS	CRU		MIG
<i>Lasthenia gracilis</i> (DC.) Greene	ssp. <i>coulteri</i> (A. Gray) Ornduff		NIC	CAT					
<i>Lajita platyglossa</i> (Fisch. & C.A. Mey.) A. Gray		CLE		CAT		ROS	CRU		MIG
<i>Lepidospartum squamatum</i> (A. Gray) A. Gray				CAT			CRU		
<i>Leptosyne gigantea</i> Kellogg		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Logfia arizonica</i> (A. Gray) Holub		CLE		CAT	BAR				
<i>Logfia flaginoides</i> (Hook. & Arn.) Morefield		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Logfia gallica</i> (L.) Coss. & Germ.*		CLE <sup>88</sup>		CAT		ROS	CRU		
<i>Madia exigua</i> (Sm.) A. Gray				CAT			CRU		
<i>Madia gracilis</i> (Sm.) Applegate				CAT			CRU		
<i>Madia sativa</i> Molina*		CLE		CAT			CRU		
<i>Malacothrix clevelandii</i> A. Gray				CAT		ROS			
<i>Malacothrix coulteri</i> Harv. & A. Gray						ROS	CRU		
<i>Malacothrix foliosa</i> A. Gray	ssp. <i>crispifolia</i> W.S. Davis							ANA	
<i>Malacothrix foliosa</i> A. Gray	ssp. <i>foliosa</i>	CLE							
<i>Malacothrix foliosa</i> A. Gray	ssp. <i>philbrickii</i> W.S. Davis				BAR				
<i>Malacothrix foliosa</i> A. Gray	ssp. <i>polycephala</i> W.S. Davis		NIC						
<i>Malacothrix incana</i> (Nutt.) Torr. & A. Gray		CLE	NIC			ROS	CRU		MIG
<i>Malacothrix incanora</i> Greene						ROS			MIG
<i>Malacothrix junakii</i> W.S. Davis							CRU	ANA	

<sup>81</sup> Collections of this taxa have been made on Catalina, but there are taxonomic issues

<sup>82</sup> UC: T.S. Brandegee Aug 25 1894

<sup>83</sup> SD: E.R. Blakey Sep 24, 1961 4781

<sup>84</sup> UC: E.R. Fosberg Apr 29 1931 S4707

<sup>86</sup> RSA: Steven A. Junak Jul 17 1998 SCA-777

<sup>87</sup> SBBG: S.A. Junak Sep 28 1996 SCL-673

<sup>88</sup> SBBG: S.A. Junak May 15 1985 SCL-74



## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Malacothrix saxatilis</i> (Nutt.) Torr. & A. Gray									
<i>Malacothrix saxatilis</i> (Nutt.) Torr. & A. Gray*	var. <i>implicata</i> (Eastw.) H.M. Hall		NIC			ROS	CRU	ANA	MIG
<i>Malacothrix similis</i> W.S. Davis & P.H. Raven	var. <i>tenifolia</i> (Nutt.) A. Gray	CLE <sup>89</sup>	NIC	CAT			CRU	ANA	MIG
<i>Malacothrix squalida</i> Greene							CRU	ANA	
<i>Matricaria occidentalis</i> Greene				CAT <sup>90</sup>					
<i>Matricaria discoides</i> DC.*				CAT <sup>91</sup>		ROS	CRU	ANA	
<i>Micropus californicus</i> Fisch. & C.A. Mey.	var. <i>californicus</i>			CAT <sup>92</sup>		ROS	CRU		
<i>Microseris douglasii</i> (DC.) Sch. Bip.	ssp. <i>douglasii</i>	CLE	NIC						
<i>Microseris douglasii</i> (DC.) Sch. Bip.	ssp. <i>tenella</i> (A. Gray)		NIC			ROS	CRU		MIG
	K.L. Chambers								
<i>Microseris douglasii</i> (DC.) Sch. Bip.	ssp. <i>platycarpa</i> (A. Gray)	CLE		CAT					
	K.L. Chambers								
<i>Microseris elegans</i> A. Gray		CLE	NIC				CRU		MIG
<i>Munzothamnus blairii</i> (Munz & I.M. Johnston) P.H. Raven		CLE							
<i>Pentachaeta lyonii</i> A. Gray				CAT					
<i>Perityle emoryi</i> Torr.		CLE		CAT	BAR	ROS	CRU	ANA	
<i>Pluchea odorata</i> (L.) Cass.				CAT			CRU		
<i>Pluchea sericea</i> (Nutt.) Coville				CAT					
<i>Pseudognaphalium biolettii</i> Anderb.		CLE	NIC	CAT	BAR <sup>93</sup>	ROS	CRU	ANA	MIG
<i>Pseudognaphalium californicum</i> (DC.) Anderb.		CLE <sup>94</sup>	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Pseudognaphalium beneolens</i> (Davidson) Anderb.		CLE	NIC	CAT		ROS	CRU		MIG
<i>Pseudognaphalium microcephalum</i> (Nutt.) Anderb.		CLE <sup>95</sup>		CAT	BAR	ROS	CRU	ANA	
<i>Pseudognaphalium luteoalbum</i> (L.) Hilliard & B.L. Burtt*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Pseudognaphalium ramosissimum</i> (Nutt.) Anderb.				CAT			CRU		
<i>Pseudognaphalium stramineum</i> (Kunth) Anderb.			NIC	CAT		ROS	CRU	ANA	MIG
<i>Psilocarphus brevissimus</i> Nutt.	var. <i>brevissimus</i>	CLE <sup>96</sup>							
<i>Psilocarphus tenellus</i> Nutt.		CLE		CAT		ROS	CRU		
<i>Rafinesquia californica</i> Nutt.		CLE		CAT	BAR	ROS	CRU	ANA	
<i>Senecio glomeratus</i> Poir.*				CAT			CRU		
<i>Senecio aphanactis</i> Greene				CAT		ROS	CRU	ANA	MIG
<i>Senecio flaccidus</i> Less.				CAT					
	var. <i>douglasii</i> (DC.) B.L. Turner & T.M. Barkley	CLE		CAT			CRU		
	A. Gray			CAT					
<i>Senecio lyonii</i>									

89RSA: Steven A. Junak, Mary C. Hochberg, H.L. Ferguson Jul 28 1981 scl13

90SD: Robert F. Thorne Apr 29, 1966 36278

91SBBG: R.F. Thorne Apr 29 1966 36290

92RSA: Tim Ross, Janet Takara, S. Otte Apr 24 1993 6957

93NPS Park flora checklist

94UC: Tim Ross Apr 16 1992 6207

95SDSU: R. M. Beauchamp March 19, 1967 315

96RSA: Tim Ross, Orlando Mistretta, Mike Hammitt May 18 1991 5184

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Senecio vulgaris</i> L.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Silybum maritimum</i> (L.) Gaerth.*		CLE	NIC	CAT	BAR <sup>97</sup>	ROS	CRU	ANA	MIG
<i>Solidago velutina</i> DC.				CAT		ROS	CRU		
<i>Sonchus asper</i> (L.) Hill*	ssp. <i>californica</i> (Nutt.) Semple	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Sonchus oleraceus</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Sonchus tenerrimus</i> L.*		CLE	NIC	CAT	BAR				
<i>Stebbinsoseris heterocarpa</i> (Nutt.) K.L. Chambers <sup>98</sup>		CLE	NIC	CAT		ROS	CRU	ANA	
<i>Stephanomeria cichoriacea</i> A. Gray		CLE	NIC	CAT		ROS	CRU		
<i>Stephanomeria diegensis</i> Gottlieb		CLE		CAT		ROS	CRU		
<i>Stephanomeria exigua</i> Benth.	ssp. <i>coronaria</i> (Greene) Gottlieb			CAT <sup>99</sup>		ROS	CRU		MIG
<i>Stephanomeria virgata</i> Benth.	ssp. <i>virgata</i>	CLE		CAT		ROS	CRU		
<i>Stylocline gnaphaloides</i> Nutt.		CLE <sup>100</sup>		CAT		ROS	CRU		
<i>Symphytichum chilense</i> (Nees) G.L. Nesom				CAT		ROS	CRU		
<i>Symphytichum subulatum</i> (Michx.) G.L. Nesom		CLE		CAT		ROS	CRU		
<i>Taraxacum erythrospermum</i> Besser*				CAT <sup>101</sup>			CRU <sup>102</sup>		
<i>Taraxacum officinale</i> F.H. Wigg.*			NIC	CAT <sup>103</sup>		ROS	CRU		
<i>Thelesperma megapotamicum</i> (Spreng.) Kuntze*				CAT					
<i>Tragopogon porrifolius</i> L.*		CLE	NIC			ROS	CRU	ANA	MIG
<i>Uropappus lindleyi</i> (DC.) Nutt. <sup>104</sup>		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Venegasia carpesioides</i> DC.						ROS	CRU		
<i>Xanthium spinosum</i> L. <sup>105</sup>				CAT	BAR&	ROS	CRU		MIG
<i>Xanthium strumarium</i> L. <sup>106</sup>			NIC	CAT		ROS	CRU		
Bataceae									
<i>Batis maritima</i> L.		CLE							
Berberidaceae									
<i>Berberis pinnata</i> Lag.	ssp. <i>insularis</i> Munz					ROS	CRU	ANA	
Boraginaceae									
<i>Ansinckia intermedia</i> Fisch. & C.A. Mey.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Ansinckia menziesii</i> (Lehm.) A. Nelson & J.F. Macbr.		CLE <sup>107</sup>		CAT		ROS	CRU	ANA	MIG
<i>Ansinckia spectabilis</i> Fisch. & C.A. Mey.	var. <i>spectabilis</i>	CLE	NIC		BAR	ROS	CRU	ANA	MIG
<i>Cryptantha intermedia</i> (A. Gray) Greene	var. <i>intermedia</i>	CLE		CAT					

<sup>97</sup>SBBG: R.N. Phalbrick Mar 18 1968 B68-20<sup>98</sup>Synonym: *Microseris heterocarpa* (Nutt.) K.L. Chambers<sup>99</sup>RSA: FR. Fosberg. 4460. Apr. 3 1931<sup>100</sup>BSA: Orlando Mistretta. Apr. 5 1982 206<sup>101</sup>SD: Robert F. Thorne Sep 15, 1966 36698<sup>102</sup>SD: Robert F. Thorne, P. Everett, 36823. Apr 18, 1967<sup>103</sup>SBBG: M.L. Hoels, R.F. Thorne Apr 6 1996 2665<sup>104</sup>Synonym: *Microseris linearifolia* (DC.) Sch. Bip.<sup>105</sup>Native status on islands unknown<sup>106</sup>Native status on islands unknown<sup>107</sup>UCR: J.R. Ekhoif May 16 2001 s.n.

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Cryptantha cleveandii</i> Greene		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Cryptantha leiocarpa</i> (Fisch. & C.A. Mey.) Greene		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Cryptantha maritima</i> (Greene) Greene		CLE	NIC	CAT <sup>108</sup>	BAR	ROS	CRU		MIG
<i>Cryptantha micromeres</i> (A. Gray) Greene		CLE		CAT		ROS	CRU		
<i>Cryptantha microstachys</i> (A. Gray) Greene		CLE		CAT		ROS	CRU		
<i>Cryptantha muricata</i> (Hook. & Arn.) A. Nelson & J.F. Macbr.		CLE	NIC	CAT <sup>109</sup> CAT <sup>110</sup>			CRU		
<i>Cryptantha traskiae</i> I.M. Johnst.		CLE		CAT			CRU		
<i>Cryptantha wigginisii</i> I.M. Johnst.		CLE		CAT			CRU		
<i>Emmenanthe penduliflora</i> Benth.	var. <i>penduliflora</i>	CLE		CAT			CRU		
<i>Eriodictyon traskiae</i> Eastw.	ssp. <i>traskiae</i>	CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Eucryphia chrysanthemifolia</i> (Benth.) Greene	var. <i>chrysanthemifolia</i>	CLE		CAT			CRU		
<i>Harpagonella palmieri</i> A. Gray		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Heliotropium curassavicum</i> L.	var. <i>oculatum</i> (A. Heller) I.M. Johnst. ex Tidestr.	CLE		CAT			CRU	ANA	MIG
<i>Nama stenocarpum</i> A. Gray		CLE <sup>111</sup>		CAT					
<i>Nemophila menziesii</i> Hook. & Arn.			NIC	CAT		ROS	CRU		MIG
<i>Nemophila pedunculata</i> Benth.			NIC	CAT		ROS	CRU	ANA	
<i>Pectocarya linearis</i> (Ruiz & Pav.) DC.	ssp. <i>ferocitula</i> (I.M. Johnst.) Thorne	CLE <sup>112</sup>	NIC	CAT		ROS	CRU	ANA	
<i>Pectocarya pentacillata</i> (Hook. & Arn.) A. DC.				CAT			CRU		
<i>Phacelia cicutaria</i> Greene	var. <i>hispida</i> J.T. Howell	CLE		CAT		ROS	CRU	ANA	
<i>Phacelia hubbiji</i> (J.F. Macbr.) L.M. Garrison <sup>113</sup>		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Phacelia distans</i> Benth.		CLE		CAT			CRU		
<i>Phacelia floribunda</i> Greene		CLE		CAT		ROS	CRU	ANA	MIG
<i>Phacelia grandiflora</i> (Benth.) A. Gray		CLE		CAT		ROS	CRU <sup>114</sup>		MIG
<i>Phacelia insularis</i> Munz	var. <i>insularis</i>	CLE		CAT		ROS	CRU		MIG
<i>Phacelia lyonii</i> A. Gray		CLE		CAT		ROS	CRU	ANA	MIG
<i>Phacelia ramosissima</i> Douglas ex Lehm.		CLE		CAT		ROS	CRU	ANA	MIG
<i>Phacelia viscida</i> (Lindl.) Torr.		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Pholistoma auritum</i> (Lindl.) Lilja	var. <i>auritum</i>	CLE?		CAT	BAR	ROS	CRU	ANA	MIG
<i>Pholistoma racemosum</i> (A. Gray) Constance		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Plagiobothrys acanthocarpus</i> (Piper) I.M. Johnst.		CLE		CAT <sup>115</sup>			CRU		
<i>Plagiobothrys canescens</i> Benth.		CLE		CAT		ROS	CRU	ANA	

<sup>108</sup>UC: T.S. Brandegee May 20 1890<sup>109</sup>SD: R. Mitchell Beauchamp, M. Douglas Mar. 24. 1973: 3229<sup>110</sup>UC: Michael G. Simpson, Lori L. Simpson April 21 2012: 3682<sup>111</sup>RSA: E. Kellogg Jun 28 1992: s.n.<sup>112</sup>BBG: S.A. Junak Mar 7 1987 SCI-732<sup>113</sup>Synonym: *Phacelia cicutaria* Greene var. *hubbiji* (J.F. Macbr.) J.T. Howell<sup>114</sup>In Wallace 1985 but not NPS list<sup>115</sup>UCR: T.S. Ross Apr 22 1983: 6895

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Plagiobothrys collinus</i> (Phil.) I.M. Johnston.		CLE		CAT			CRU	ANA	MIG
<i>Plagiobothrys collinus</i> (Phil.) I.M. Johnston.	var. <i>gracilis</i> (I.M. Johnston.) Higgins	CLE <sup>116</sup>		CAT <sup>117</sup>			CRU <sup>118</sup>	ANA	MIG
<i>Plagiobothrys collinus</i> (Phil.) I.M. Johnston.	var. <i>californicus</i> (A. Gray) Higgins								
Brassicaceae									
<i>Athyisanus pusillus</i> (Hook.) Greene		CLE		CAT			CRU		
<i>Boechera hoffmannii</i> (Munz) Al-Shehbaz						ROS	CRU		
<i>Brassica nigra</i> (L.) W.D.J. Koch*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Brassica tournefortii</i> Gouan*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Brassica rapa</i> L.*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Cakile edentula</i> (Bigelow) Hook.*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Cakile maritima</i> Scop.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Capsella bursa-pastoris</i> (L.) Medik.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Cardamine californica</i> (Nutt.) Greene		CLE		CAT		ROS	CRU	ANA	MIG
<i>Cardamine oligosperma</i> Nutt.				CAT		ROS	CRU	ANA	MIG
<i>Caulanthus lasiophyllus</i> (Hook. & Arn.) Payson <sup>119</sup>		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Descurainia pinnata</i> (Walter) Britton		CLE		CAT		ROS	CRU	ANA	MIG
<i>Dithyrea maritima</i> (Davidson) Davidson			NIC	CAT <sup>120</sup>					MIG
<i>Draba cuneifolia</i> Nutt. ex Torr. & A. Gray		CLE	NIC	CAT			CRU		MIG
<i>Erysimum amnophitum</i> A. Heller				CAT		ROS			MIG
<i>Erysimum cheiri</i> (L.) Crantz.*				CAT					
<i>Erysimum insulare</i> Greene						ROS	CRU	ANA	MIG
<i>Hirschfeldia incana</i> (L.) Lagr.-Fossat <sup>121</sup> *		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Hornungia procumbens</i> (L.) Hayek		CLE <sup>122</sup>	NIC		BAR	ROS	CRU	ANA	MIG
<i>Lepidium draba</i> L.*		CLE	NIC	CAT		ROS	CRU		
<i>Lepidium lasiocarpum</i> Nutt.		CLE	NIC	CAT					
<i>Lepidium latipes</i> Hook.		CLE		CAT			CRU		
<i>Lepidium nitidum</i> Nutt.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Lepidium oblongum</i> Small		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Lepidium strictum</i> (S. Watson) Rattan*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Lepidium virginicum</i> L. <sup>124</sup> *		CLE		CAT <sup>123</sup>					
<i>Lepidium virginicum</i> L. <sup>124</sup> *	ssp. <i>menziesii</i> (DC.) Thell.	CLE	NIC	CAT			CRU		MIG
<i>Lobularia maritima</i> (L.) Desv.*		CLE <sup>125</sup>	NIC	CAT					
<i>Nasturtium officinale</i> W.T. Aiton <sup>126</sup>			NIC	CAT			CRU		

<sup>119</sup>POM: P.A. Munz Apr 10 1923 6705  
<sup>117</sup>TRSA: R.F. Thorne, R.C. Rollins, D. Propst, R. Carolin, 36761, Mar 19 1967  
<sup>118</sup>UC: T.S. Brandegee, Apr 1888  
<sup>119</sup>S: synonym: *Gaultheria lasiophylla* (Hook. & Arn.) Greene  
<sup>120</sup>N: No specimens in CCH; extrapolated from Catalina? per: <http://www.rareplants.cmpa.org/detail/571.html>  
<sup>121</sup>S: synonym: *Brassica genticulata* (Desf.) Benth.  
<sup>122</sup>Pers. com. E. Howe  
<sup>123</sup>S:BBG: S.A. Junak, M.L. Hoeft, J. Takara Mar 28 1997 SCA-388  
<sup>124</sup>S: synonym: *Lepidium virginicum* var. *pubescens* (Greene) Thell.; *Lepidium virginicum* var. *robinsonii* (Thell.) C.L. Hitchc.  
<sup>125</sup>S:BBG: S.A. Junak, M.C. Hochberg, H. Ferguson Jul 28 1981 SCI-17  
<sup>126</sup>N: Native status on islands unknown, doubtful

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname									
	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG		
<i>Raphanus raphanistrum</i> L.*	CLE		CAT		ROS	CRU				
<i>Raphanus sativus</i> L.*	CLE	NIC	CAT		ROS	CRU				MIG
<i>Sibara filifolia</i> (Greene) Greene	CLE <sup>127</sup>		CAT			CRU				
<i>Sinapis arvensis</i> L. <sup>125*</sup>	CLE <sup>2,129</sup>		CAT			CRU				
<i>Sisymbrium altissimum</i> L.*										
<i>Sisymbrium irio</i> L.*	CLE	NIC	CAT				ANA			
<i>Sisymbrium officinale</i> (L.) Scop.*			CAT			CRU				MIG
<i>Sisymbrium orientale</i> L.*	CLE <sup>130</sup>	NIC	CAT				ANA			
<i>Thysanocarpus conchuliferus</i> Greene						CRU				
<i>Thysanocarpus curvipes</i> Hook.	CLE <sup>131</sup>		CAT			CRU				
<i>Thysanocarpus laciniatus</i> Nutt.	CLE		CAT		ROS	CRU				
<i>Tropidocarpum gracile</i> Hook.	CLE		CAT							
<i>Turritis glabra</i> L.						CRU				
Cactaceae										
<i>Bergencactus emoryi</i> (Engelm.) Britton & Rose	CLE		CAT							
<i>Cylindropuntia prolifera</i> (Engelm.) F.M. Knuth	CLE	NIC	CAT	BAR	ROS	CRU	ANA			
<i>Opuntia ficus-indica</i> (L.) Mill.*	CLE	NIC	CAT			CRU	ANA			
<i>Opuntia littoralis</i> (Engelm.) Cockerell	CLE	NIC	CAT	BAR	ROS	CRU	ANA			MIG
<i>Opuntia oricola</i> Philbrick	CLE	NIC	CAT	BAR	ROS	CRU	ANA			MIG
Campanulaceae										
<i>Cithopsis diffusa</i> A. Gray						CRU				
<i>Triodanis biflora</i> (Ruiz & Pav.) Greene			CAT		ROS	CRU				
Caprifoliaceae										
<i>Lonicera hispidula</i> (Lindl.) Torr. & A. Gray			CAT		ROS	CRU				
<i>Lonicera interrupta</i> Benth.	CLE					CRU				
<i>Lonicera subspicata</i> Hook. & Arn.			CAT		ROS	CRU				
<i>Symphoricarpos mollis</i> Nutt.			CAT		ROS	CRU				
Caryophyllaceae										
<i>Cardionema ramosissimum</i> (Weinm.) A. Nelson & J.F. Macbr.					ROS	CRU				MIG
<i>Cerastium glomeratum</i> Thuill.*	CLE		CAT		ROS	CRU	ANA			MIG
<i>Herniaria hirsuta</i> L.*	CLE	NIC	CAT <sup>132</sup>	BAR	ROS	CRU				MIG
<i>Loeflingia squarrosa</i> Nutt.		NIC								
<i>Mniuraria douglasii</i> (Torr. & A. Gray) Mattf.	CLE		CAT		ROS	CRU				
<i>Polycarpon depressum</i> Nutt.	CLE		CAT			CRU				MIG

127RSA: Orlando Mistretta Apr 5 1992 142

128Synonym: *Brassica kabrer* (DC.) L.C. Wheeler

129Pers. comm. E. Howe

130SBBG: S.A. Junak May 29 1996 SCI-545

131UC: Tim Ross Apr 14 1992 6153

132SBBG: S.A. Junak Mar 27 1997 SCA-346

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Polycarpon tetraphyllum</i> (L.) L.*				CAT		ROS	CRU	ANA	MIG
<i>Sagina apetala</i> Ard.			NIC			ROS	CRU	ANA	MIG
<i>Sagina decumbens</i> (Elliott) Torr. & A. Gray	ssp. <i>occidentalis</i> (S. Watson) G.E. Crow			CAT		ROS	CRU	ANA	MIG
<i>Silene antirrhina</i> L.		CLE		CAT		ROS	CRU	ANA	MIG
<i>Silene gallica</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Silene laciniata</i> Cav.	ssp. <i>laciniata</i>	CLE		CAT		ROS	CRU	ANA	MIG
<i>Silene coniflora</i> Oth.				CAT			CRU		
<i>Spergularia arvensis</i> L.*				CAT		ROS			
<i>Spergularia bocconi</i> (Scheele) Graebn.*		CLE	NIC	CAT	BAR		CRU	ANA	
<i>Spergularia macrotheca</i> (Cham. & Schltdl.) Heynh.	ssp. <i>macrotheca</i>	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Spergularia marina</i> (L.) Besser		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Spergularia villosa</i> (Pers.) Cambess.*		CLE		CAT		ROS	CRU		
<i>Stellaria media</i> (L.) Vill.*		CLE		CAT		ROS	CRU	ANA	MIG
<i>Stellaria nitens</i> Nutt.				CAT		ROS	CRU		
<i>Aphanisma blitoides</i> Moq.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Arthrocnemum subterminale</i> (Parish) Standl.		CLE		CAT		ROS	CRU		MIG
<i>Atriplex argentea</i> Nutt.	ssp. <i>expansa</i> (S. Watson) S.L. Welsh & Reveal	CLE	NIC	CAT		ROS	CRU		
<i>Atriplex californica</i> Moq.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Atriplex canescens</i> (Pursh) Nutt.*	var. <i>canescens</i>		NIC						
<i>Atriplex coulteri</i> (Moq.) D. Dietr.		CLE		CAT		ROS	CRU	ANA	MIG
<i>Atriplex leuifornis</i> (Torr.) S. Watson	(S. Watson) H.M. Hall & Clem.	CLE	NIC	CAT			CRU	ANA	
<i>Atriplex leucophylla</i> (Moq.) D. Dietr.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Atriplex pacifica</i> A. Nelson		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Atriplex semibaccata</i> R. Br.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Atriplex serenana</i> Abrams	var. <i>davidsonii</i> (Standl.) Munz			CAT <sup>133</sup>		ROS	CRU		
<i>Atriplex serenana</i> Abrams	var. <i>serenana</i>			CAT					
<i>Atriplex prostrata</i> DC.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Atriplex watsonii</i> Abrams		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Bassia hyssopifolia</i> (Pall.) Kuntze*		CLE	NIC	CAT					
<i>Beta vulgaris</i> L.*		CLE		CAT		ROS	CRU	ANA	MIG
<i>Chenopodium berlandieri</i> Moq.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Chenopodium californicum</i> (S. Watson) S. Watson		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Chenopodium murale</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Dysphania multifida</i> (L.) Mosyakin & Clemants*		CLE				ROS	CRU		MIG
<i>Monolepis nuttalliana</i> (Schult.) Greene		CLE			BAR	ROS	CRU		MIG
<i>Salicornia depressa</i> Standl.			NIC						
<i>Salicornia pacifica</i> Standl.		CLE		CAT		ROS	CRU	ANA	MIG

133RSA: Blanche Trask Mar 1901 s.n.

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Salsola australis</i> R. Br. <sup>134*</sup>		CLE	NIC	CAT		ROS	CRU		
<i>Suaeda calceoliformis</i> (Hook.) Moq.		CLE	NIC	CAT <sup>135</sup>		ROS	CRU	ANA	MIG
<i>Suaeda taxifolia</i> (Standl.) Standl.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Cistaceae									
<i>Helianthemum greenii</i> B.L. Rob.		CLE	NIC	CAT		ROS	CRU		MIG &
<i>Helianthemum scoparium</i> Nutt.		CLE? <sup>136</sup>		CAT		ROS	CRU		
Cleomeaceae									
<i>Peritoma arborea</i> (Nutt.) H.H. Iltis		CLE		CAT		ROS			
Convolvulaceae									
<i>Calystegia macrostegia</i> (Greene) Brummitt	ssp. <i>amplissima</i> Brummitt	CLE	NIC	CAT	BAR				
<i>Calystegia macrostegia</i> (Greene) Brummitt	ssp. <i>cyclostegia</i> (House) Brummitt			CAT					
<i>Calystegia macrostegia</i> (Greene) Brummitt	ssp. <i>intermedia</i> (Abrams) Brummitt			CAT		ROS	CRU	ANA	MIG
<i>Calystegia macrostegia</i> (Greene) Brummitt	ssp. <i>macrostegia</i>		NIC &	CAT					
<i>Calystegia malacophylla</i> (Greene) Munz*	ssp. <i>pedicellata</i> (Eps.) Munz			CAT		ROS	CRU		MIG
<i>Calystegia soldanella</i> (L.) R. Br.*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Convolvulus arvensis</i> L.*			NIC	CAT		ROS	CRU		
<i>Convolvulus simulans</i> L. M. Perry		CLE		CAT		ROS	CRU		
<i>Cressa truxillensis</i> Kunth		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Cuscuta californica</i> Hook. & Arn.		CLE		CAT		ROS	CRU <sup>137</sup>		
<i>Cuscuta campestris</i> Yünek.				CAT <sup>138</sup>					
<i>Cuscuta occidentalis</i> Millsp.				CAT					
<i>Cuscuta pacifica</i> Costea & M. Wright	var. <i>pacifica</i>			CAT		ROS	CRU	ANA	
<i>Dichondra occidentalis</i> House				CAT		ROS	CRU		MIG
<i>Ipomoea cairica</i> (L.) Sweet*				CAT					
Cornaceae									
<i>Cornus glabrata</i> Benth.				CAT					
Crassulaceae									
<i>Crassula aquatica</i> (L.) Schönl.				CAT					
<i>Crassula connata</i> (Ruiz & Pav.) A. Berger		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Crassula ovata</i> (Mill.) Druce*		CLE		CAT					
<i>Dudleya blochmaniae</i> (Eastw.) Moran	ssp. <i>blochmaniae</i>						CRU		
<i>Dudleya blochmaniae</i> (Eastw.) Moran	ssp. <i>insularis</i> (Moran) Moran					ROS		ANA	
<i>Dudleya caespitosa</i> (Haw.) Britton & Rose						ROS	CRU		MIG
<i>Dudleya candelabrum</i> Rose						ROS	CRU		MIG
<i>Dudleya greenii</i> Rose				CAT		ROS	CRU		MIG
<i>Dudleya gnoma</i> S. W. McCabe						ROS			

<sup>134</sup>Synonym: *Salsola tragus* L.<sup>135</sup>SBBG: S.A. Juncak Oct 22 1998 SCA-823<sup>136</sup>pers. com. E. Howe<sup>137</sup>SBBG: M.R. Benedict Sep 30 1969<sup>138</sup>RSA: George B. Grant 4541

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Dudleya nesiotica</i> (Moran) Moran							CRU		
<i>Dudleya traskiae</i> (Rose) Moran					BAR				
<i>Dudleya vires</i> (Rose) Moran	ssp. <i>hassei</i> (Rose) Moran			CAT					
<i>Dudleya vires</i> (Rose) Moran	ssp. <i>insularis</i>		NIC	CAT					
<i>Dudleya vires</i> (Rose) Moran	ssp. <i>virens</i>	CLE							
Crossosomataceae									
<i>Crossosoma californicum</i> Nutt.		CLE	NIC	CAT					
Cucurbitaceae									
<i>Cucurbita foetidissima</i> Kunth							CRU		
<i>Marah fabacea</i> (Naudin) Greene		CLE <sup>139</sup>	NIC <sup>140</sup>	CAT <sup>141</sup>			CRU		MIG <sup>142</sup>
<i>Marah macrocarpa</i> (Greene) Greene		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Ericaceae									
<i>Arbutus menziesii</i> Pursh				CAT			CRU		
<i>Arctostaphylos catalinae</i> P.V. Wells						ROS			
<i>Arctostaphylos confertiflora</i> Eastw.							CRU		
<i>Arctostaphylos insularis</i> Parry						ROS	CRU		
<i>Arctostaphylos crustacea</i> Eastw.	ssp. <i>insulicola</i> (P.V. Wells) V.T. Parker et al.					ROS	CRU		
<i>Arctostaphylos crustacea</i> Eastw.	ssp. <i>subcordata</i> (Eastw.) V.T. Parker et al.					ROS	CRU		
<i>Arctostaphylos viridissima</i> (Eastw.) McMinn							CRU		
<i>Comarostaphylos diversifolia</i> (Parry) Greene	ssp. <i>planifolia</i> (Jeps.) G.D. Wallace			CAT		ROS	CRU	ANA	
<i>Vaccinium ocatum</i> Pursh						ROS	CRU		
<i>Xylococcus bicolor</i> Nutt.				CAT					
Euphorbiaceae									
<i>Chamaesyce maculata</i> (L.) Small*		CLE <sup>143</sup>			BAR		CRU	ANA	
<i>Chamaesyce serpyllifolia</i> (Pers.) Small*		CLE							
<i>Chamaesyce serpyllifolia</i> (Pers.) Small				CAT					
<i>Croton setigerus</i> Hook.		CLE		CAT		ROS	CRU		
<i>Euphorbia crenulata</i> Engelm.				CAT					
<i>Euphorbia misera</i> Benth.		CLE		CAT			CRU		
<i>Euphorbia pepplus</i> L.*		CLE		CAT		ROS	CRU		
<i>Euphorbia spathulata</i> Lam.		CLE		CAT					
<i>Ricinus communis</i> L.*		CLE	NIC	CAT					
<i>Stillingia linearifolia</i> S. Watson				CAT					
Fabaceae							CRU		
<i>Acacia cyclops</i> C. Don*		CLE? <sup>144</sup>							

139)RSA: FH. Elmore Feb 19 1939 422

140)BBG: M.B. Dunkle Jul 26 1939 8359

141)SD: Darley F. Howe Feb 24 1968 4486

142)BBG: M.B. Dunkle Jul 31 1939 8402

143)RSA: Steven A. Junak Nov 9 1990 SC1144

144)Pers. com. E. Howe



## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Acacia decurrens</i> Willd.*				CAT					
<i>Acacia dealbata</i> Link*				CAT			CRU		
<i>Acacia melanoxylon</i> R. Br.*				CAT			CRU		
<i>Acemisanon americanus</i> (Nutt.) Rydb. <sup>145</sup>	var. <i>americanus</i>			CAT			CRU		
<i>Acemison argophyllus</i> (A. Gray) Brouillet	var. <i>adsurgens</i> (Dumkle)	CLE		CAT	BAR	ROS <sup>146</sup>	CRU		MIG <sup>147</sup>
<i>Acemison argophyllus</i> (A. Gray) Brouillet	var. <i>argenteus</i> (Dumkle)	CLE	NIC	CAT					
<i>Acemison argophyllus</i> (A. Gray) Brouillet	var. <i>niveus</i> (Greene)			CAT					
<i>Acemison brachycarpus</i> (Benth.) D.D. Sokoloff <sup>148</sup>		CLE		CAT		ROS	CRU	ANA	
<i>Acemison dendroideus</i> (Greene) Brouillet	var. <i>dendroideus</i>	CLE		CAT		ROS	CRU		
<i>Acemison dendroideus</i> (Greene) Brouillet	var. <i>veitchii</i> (Greene) Brouillet								
<i>Acemison dendroideus</i> (Greene) Brouillet	var. <i>traskiae</i> (Abrams) Brouillet	CLE		CAT		ROS	CRU		
<i>Acemison grandiflorus</i> (Benth.) Brouillet	var. <i>grandiflorus</i>			CAT		ROS			
<i>Acemison heermannii</i> (Durand & Hilg.) Brouillet				CAT		ROS	CRU	ANA	MIG
<i>Acemison maritimus</i> (Nutt.) D.D. Sokoloff <sup>149</sup>	var. <i>maritimus</i>		NIC	CAT		ROS	CRU	ANA	MIG
<i>Acemison micranthus</i> (Torr. & A. Gray) Brouillet <sup>150</sup>		CLE		CAT		ROS	CRU		
<i>Acemison parviflorus</i> (Benth.) D.D. Sokoloff <sup>151</sup>							CRU		
<i>Acemison strigosus</i> (Nutt.) Brouillet		CLE		CAT		ROS	CRU	ANA	MIG
<i>Acemison vorangelianus</i> (Fisch. & C.A. Mey.) D.D. Sokoloff <sup>152</sup>		CLE		CAT		ROS	CRU	ANA	MIG
<i>Albizia lophantha</i> (Willd.) Benth.*							CRU		
<i>Astragalus curtipes</i> A. Gray						ROS			MIG
<i>Astragalus didymocarpus</i> Hook & Arn.	var. <i>didymocarpus</i>	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Astragalus gambelians</i> E. Sheld.				CAT			CRU		
<i>Astragalus miguelensis</i> Greene		CLE				ROS	CRU	ANA	MIG
<i>Astragalus nevaditii</i> A. Gray		CLE							
<i>Astragalus traskiae</i> Eastw.					BAR				
<i>Astragalus trichopodus</i> (Nutt.) A. Gray	var. <i>lonchus</i> (M.E. Jones) Barnely		NIC	CAT		ROS	CRU		ANA
<i>Astragalus trichopodus</i> (Nutt.) A. Gray	var. <i>trichopodus</i>			CAT					
<i>Caesalpinia spinosa</i> (Molina) Kuntze*				CAT <sup>153</sup>					
<i>Coronilla valentina</i> L.*				CAT					
<i>Genista linifolia</i> L.*				CAT					
<i>Genista monspessulana</i> (L.) L.A.S. Johnson*				CAT					

<sup>145</sup>Synonym: *Lotus purshianus* Clem. & E.G. Clem.<sup>146</sup>CAS: L.R. Abrams, L.L. Wiggins 30 June, 1931 239<sup>147</sup>DS: E.R. Blakey 3 April 1962 5081<sup>148</sup>Synonym: *Lotus humistratus* Greene; Wallace listed *L. humistratus* on Cruz, but NPS Park Flora did not<sup>149</sup>Synonym: *Lotus submarginatus* Greene<sup>150</sup>Synonym: *Lotus hamatus* Greene<sup>151</sup>Synonym: *Lotus micranthus* Benth.<sup>152</sup>Synonym: *Lotus urangeliensis* Fisch. & C.A. Mey.; *Lotus subpinnatus* Lag. misappl.<sup>153</sup>RSA: Tim Ross Apr 23, 1993 6934

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Lathyrus odoratus</i> L.*		CLE <sup>154</sup>							
<i>Lathyrus tingitanus</i> L.*				CAT					
<i>Lathyrus vestitus</i> Nutt.	var. <i>alefeldii</i> (T.C. White) Isley			CAT					
<i>Lathyrus vestitus</i> Nutt.	var. <i>vestitus</i>	CLE		CAT		ROS	CRU	ANA	
<i>Lotus corniculatus</i> L.*				CAT			CRU		
<i>Lupinus albus</i> Benth.	var. <i>douglasii</i> (J. Agardh) C.P. Sm.		NIC	CAT		ROS	CRU	ANA	MIG
<i>Lupinus arboreus</i> Sims				CAT		ROS	CRU		MIG
<i>Lupinus bicolor</i> Lindl.			NIC	CAT		ROS	CRU	ANA	MIG
<i>Lupinus chamissonis</i> Eschsch.				CAT		ROS			MIG
<i>Lupinus concinnus</i> J. Agardh		CLE <sup>155</sup>		CAT		ROS	CRU		
<i>Lupinus guadalupensis</i> Greene		CLE							
<i>Lupinus hirsutissimus</i> Benth.		CLE		CAT		ROS	CRU	ANA	
<i>Lupinus microcarpus</i> Sims				CAT		ROS	CRU		MIG
<i>Lupinus succulentus</i> K. Koch		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Lupinus truncatus</i> Nutt.		CLE		CAT		ROS	CRU	ANA	
<i>Lupinus varicolor</i> Steud.				CAT		ROS			MIG
<i>Medicago polymorpha</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Medicago sativa</i> L.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Melilotus albus</i> Medik.*		CLE	NIC	CAT		ROS	CRU	ANA	
<i>Melilotus indicus</i> (L.) All.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Pickeringia montana</i> Nutt.	var. <i>montana</i>						CRU		
<i>Pisum sativum</i> L.*			NIC				CRU		
<i>Robinia pseudoacacia</i> L.*			NIC				CRU		
<i>Spartium junceum</i> L.*			NIC	CAT			CRU		
<i>Trifolium albopurpureum</i> Torr. & A. Gray			NIC <sup>156</sup>	CAT		ROS	CRU		
<i>Trifolium barbigerum</i> Torr.						ROS			MIG
<i>Trifolium ciliolatum</i> Benth.				CAT		ROS	CRU		
<i>Trifolium depauperatum</i> Desv.	var. <i>amplectens</i> (Torr. & A. Gray) McDermott	CLE		CAT					
<i>Trifolium depauperatum</i> Desv.	var. <i>truncatum</i> (Greene) Isely	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Trifolium fucatum</i> Lindl.		CLE		CAT		ROS	CRU	ANA	MIG
<i>Trifolium gracilentum</i> Torr. & A. Gray		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Trifolium hirtum</i> All.		CLE							
<i>Trifolium macraei</i> Hook. & Arn.			NIC	CAT		ROS	CRU		MIG
<i>Trifolium microcephalum</i> Pursh			NIC	CAT		ROS	CRU		MIG
<i>Trifolium microdon</i> Hook. & Arn.			NIC	CAT					
<i>Trifolium palmieri</i> S. Watson		CLE	NIC	CAT	BAR			ANA	
<i>Trifolium repens</i> L.*			NIC	CAT					

<sup>154</sup>SD; Steven A. Junak May 19, 1997 SCL877<sup>155</sup>SBBC; M.R. Benedict Jun 26 1971<sup>156</sup>JEPS93564 (SN-846).det. var. *dichotomum* in TJM2) by: Michael Vincent in 2005.

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Trifolium variegatum</i> Nutt.							CRU		
<i>Trifolium willdenovii</i> Spreng.	var. <i>major</i> Loja.	CLE <sup>157</sup>		CAT <sup>158</sup>	BAR	ROS	CRU	ANA	MIG
<i>Vicia americana</i> Willd.						ROS	CRU	ANA	MIG
<i>Vicia benghalensis</i> L.*				CAT <sup>159</sup>			CRU	ANA	
<i>Vicia hassei</i> S. Watson		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Vicia ludoviciana</i> Torr. & A. Gray	ssp. <i>ludoviciana</i>	CLE <sup>160</sup>		CAT <sup>161</sup>		ROS	CRU	ANA	
<i>Vicia sativa</i> L.*	ssp. <i>nigra</i> (L.) Erhart		NIC			ROS			
<i>Vicia sativa</i> L.*	ssp. <i>sativa</i>		NIC			ROS	CRU	ANA	
<i>Vicia villosa</i> Roth	(Host) Corb.		NIC	CAT <sup>162</sup>					
<i>Quercus agrifolia</i> Née	var. <i>agrifolia</i>					ROS	CRU		
<i>Quercus chrysolepis</i> Liebm.		CLE		CAT		ROS	CRU	ANA	
<i>Quercus douglasii</i> Hook. & Arn.				CAT			CRU		
<i>Quercus engelmannii</i> Greene				CAT		ROS			
<i>Quercus kelloggii</i> Newb.							CRU		
<i>Quercus lobata</i> Née				CAT		ROS	CRU		
<i>Quercus xmacdonaldii</i> Greene				CAT		ROS	CRU		
<i>Quercus pacifica</i> Nixon & C.H. Mull.				CAT		ROS	CRU		
<i>Quercus parvula</i> Greene							CRU		
<i>Quercus tomentella</i> Engelm.	var. <i>parvula</i>	CLE		CAT		ROS	CRU	ANA	
Frankeniaceae									
<i>Frankenia salina</i> (Molina) I.M. Johnston		CLE	NIC	CAT		ROS	CRU	ANA	MIG
Garryaceae									
<i>Garrya veatchii</i> Kellogg							CRU		
Gentianaceae									
<i>Zelmeria daruji</i> (Jeps.) G. Mans.		CLE	NIC	CAT		ROS	CRU		
<i>Zelmeria venusta</i> (A. Gray) G. Mans.									
Geraniaceae									
<i>California macrophylla</i> (Hook. & Arn.) J.J. Aldasoroet				CAT <sup>163</sup>					
<i>Erodium botrys</i> (Cav.) Berol.*			NIC	CAT <sup>164</sup>		ROS	CRU		
<i>Erodium brachycarpum</i> (Godr.) Thell.*		CLE <sup>165</sup>		CAT <sup>166</sup>		ROS			
<i>Erodium cicutarium</i> (L.) Aiton*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Erodium moschatum</i> (L.) Aiton*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG

157B&amp;A: PH. Raven May 8 1962 17614

1581C: FR. Fishberg Mar 25 1931 s4667

159&amp;BBG: PH. Raven May 20 1962 17789

1601C&amp;R: Steve Boyd, T.S. Ross, L. Arnsedh. Apr 7 1990 4260

161&amp;SBBG: R.F. Thorne Mar 7 1966 35954

162&amp;SD: Robert F. Thorne, D. Propst May 29, 1968 37691

163&amp;GH: W.A. Wallace

164&amp;SBBG: S.A. Junak, K. Kirkland, L. Vorobik May 16 1998 SCA-697

165&amp;BBG: T. Ross, O. Misreeta, M. Hannitt May 18 1991 5191

166&amp;BBG: S.A. Junak, M.L. Hoefs, K. Kirkland Apr 5 1998 SCA-549

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Erodium texanum</i> A. Gray				CAT					
<i>Geranium carolinianum</i> L.				CAT		ROS	CRU		
<i>Geranium dissectum</i> L.*						ROS			
<i>Geranium molle</i> L.*							CRU		
<i>Pelargonium ×hortorum</i> L.H. Bailey*		CLE <sup>167</sup>	NIC	CAT		ROS	CRU		MIG <sup>168</sup>
<i>Pelargonium peltatum</i> (L.) L'Her.*			NIC						
Grossulariaceae									
<i>Ribes malvaceum</i> Sm.	var. <i>malvaceum</i>	CLE		CAT		ROS	CRU	ANA	
<i>Ribes viburnifolium</i> A. Gray									
<i>Ribes thacherianum</i> (Jepps.) Munz							CRU		
Juglandaceae									
<i>Juglans californica</i> S. Watson*				CAT			CRU		
<i>Juglans regia</i> L.*									
Lamiaceae									
<i>Clinopodium douglasii</i> (Benth.) Kuntze				CAT		ROS	CRU		
<i>Lamium amplexicaule</i> L.*							CRU		
<i>Lepechinia fragrans</i> (Greene) Epling				CAT		ROS	CRU		
<i>Marrubium vulgare</i> L.*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Mentha aquatica</i> L.*				CAT					
<i>Mentha spicata</i> L.*				CAT			CRU		
<i>Nepeta cataria</i> L.*				CAT					
<i>Salvia apiana</i> Jepps.				CAT					
<i>Salvia brandegeei</i> Munz						ROS			
<i>Salvia columbariae</i> Benth.		CLE		CAT		ROS	CRU		
<i>Salvia leucophylla</i> Greene							CRU		
<i>Salvia mellifera</i> Greene		CLE? <sup>169</sup>		CAT		ROS	CRU	ANA	
<i>Scutellaria tuberosa</i> Benth.							CRU		
<i>Stachys ajugoides</i> Benth.						ROS			MIG
<i>Stachys bullata</i> Benth.						ROS	CRU	ANA	
<i>Trichostema lanceolatum</i> Benth.				CAT					
Linaceae									
<i>Hesperolinon micranthum</i> (A. Gray) Small				CAT					
Loasaceae									
<i>Mentzelia affinis</i> Greene		CLE	NIC	CAT		ROS	CRU		
<i>Mentzelia micrantha</i> (Hook. & Arn.) Torr. & A.		CLE		CAT			CRU		
Lythraceae									
<i>Ammannia robusta</i> Heer & Regel				CAT					

<sup>167</sup>SBBG: T. Ross May 22 1991 5435<sup>168</sup>SBBG: R.N. Philbrick Mar 25 1966 B66-91<sup>169</sup>Pers. com. E. Howe

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Lycium californicum</i> Torr. & A. Gray							CRU		
<i>Lycium hyssopifolia</i> L.*		CLE	NIC	CAT <sup>170</sup>		ROS	CRU		
Malvaceae									
<i>Alcea rosea</i> L.*				CAT			CRU		
<i>Eremalche exilis</i> (A. Gray) Greene		CLE		CAT			CRU		
<i>Lavatera assurgentiflora</i>	ssp. <i>assurgentiflora</i>	CLE*	NIC*			ROS	CRU	ANA	MIG
<i>Lavatera assurgentiflora</i>	ssp. <i>glabra</i> (Munz & I.M. Johnston) Kearney	CLE		CAT			CRU*		
<i>Malacothamnus clementinus</i>	var. <i>catalhensis</i> (Eastw.) Kearney	CLE		CAT					
<i>Malacothamnus fasciculatus</i> (Torr. & A. Gray) Greene	var. <i>nesioficus</i> (B.L. Rob.) Kearney						CRU		
<i>Malva pseudolavatera</i> Webb & Berthel.*		CLE <sup>171</sup>				ROS		ANA	
<i>Malva nicaeensis</i> All.*						ROS	CRU		
<i>Malva parviflora</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Malvella leprosa</i> (Ortega) Krapov.		CLE		CAT		ROS			
<i>Sidalcea malviflora</i> (DC.) A. Gray	ssp. <i>malviflora</i>					ROS	CRU		MIG
Montiaceae									
<i>Calandrinia breweri</i> S. Watson						ROS	CRU		
<i>Calandrinia ciliata</i> Fisch. & C.A. Mey.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Cistanthe maritima</i> (Nutt.) Hershk.		CLE		CAT	BAR	ROS	CRU	ANA	
<i>Claytonia parviflora</i> Hook.	ssp. <i>parviflora</i>		NIC	CAT <sup>172</sup>	BAR		CRU		MIG
<i>Claytonia perfoliata</i> Willd.	ssp. <i>mexicana</i> (Rydb.) John M. Mill. & K.L. Chambers	CLE <sup>173</sup>	NIC	CAT <sup>174</sup>	BAR	ROS	CRU	ANA	MIG
<i>Claytonia perfoliata</i> Willd.	ssp. <i>perfoliata</i>	CLE		CAT		ROS	CRU		
<i>Montia fontana</i> L.				CAT			CRU		
Moraceae									
<i>Ficus carica</i> L.*		CLE <sup>175</sup>		CAT			CRU		MIG
Myrsinaceae									
<i>Anagallis arvensis</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Anagallis minima</i> (L.) E.H.L. Krause						ROS			
Myrtales									
<i>Eucalyptus camadulensis</i> Dehnh.*				CAT <sup>176</sup>		ROS	CRU		
<i>Eucalyptus cladocalyx</i> F. Muell.*				CAT <sup>177</sup>					
<i>Eucalyptus globulus</i> Labill.*		CLE		CAT	BAR	ROS	CRU	ANA	

170RSA: Mark Hoefs, Steven A. Junak, Janet Takana, M. Gay Jul 14 1995 2401

171SD: Steven A. Junak Apr 23, 1997 SCI858

172SBBG: S.A. Junak, K. Kirkland Apr 13 2001 SCA-1421

173SBBG: Tim Ross, Orlando Mistretta, Mike Hammitt May 19 1991 5286

174SBBG: E.R. Blakley Apr 7 1963 5537

175SBBG: S.A. Junak May 20 1996

176UCR: T.S. Ross Apr 23 1993 6926

177UCR: O.F. Clarke Feb 25 1968 s.n.

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Eucalyptus polyanthemus</i> Schauer*				CAT <sup>178</sup>					
<i>Eucalyptus sideroxylon</i> Woolls*							CRU		
<i>Eucalyptus tereticornis</i> Sm.*						ROS	CRU		
Nyctaginaceae									
<i>Abronia latifolia</i> Eschsch.									MIG
<i>Abronia maritima</i> S. Watson		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Abronia umbellata</i> Lam.		CLE	NIC	CAT		ROS	CRU		MIG
<i>Mirabilis laevis</i> (Benth.) Curran	var. <i>crassifolia</i> (Choisy) Spellentb.	CLE		CAT	BAR	ROS	CRU	ANA	
Oleaceae									
<i>Olea europaea</i> L.*					BAR		CRU	ANA	
Onagraceae									
<i>Camissonia strigulosa</i> (Fisch. & C.A. Mey.) P.H. Raven						ROS			
<i>Camissoniopsis cheiranthifolia</i> (Spreng.) W.L. Wagner & Hoch	ssp. <i>cheiranthifolia</i>	CLE	NIC		BAR	ROS	CRU		MIG
<i>Camissoniopsis cheiranthifolia</i> (Spreng.) W.L. Wagner & Hoch	ssp. <i>suffruticosa</i> (S. Watson) W.L. Wagner & Hoch		NIC						
<i>Camissoniopsis guadalupensis</i> (S. Watson) W.L. Wagner & Hoch	ssp. <i>clementina</i> (P.H. Raven) W.L. Wagner & Hoch	CLE					CRU		
<i>Camissoniopsis hirtella</i> (Greene) W.L. Wagner & Hoch									
<i>Camissoniopsis ignota</i> (Jeps.) W.L. Wagner & Hoch						ROS	CRU		MIG
<i>Camissoniopsis intermedia</i> (P.H. Raven) W.L. Wagner & Hoch				CAT			CRU		
<i>Camissoniopsis micrantha</i> (Spreng.) W.L. Wagner & Hoch		CLE		CAT		ROS	CRU	ANA	MIG
<i>Camissoniopsis robusta</i> (P.H. Raven) W.L. Wagner & Hoch		CLE		CAT			CRU		MIG
<i>Clarkia davisi</i> (Jeps.) H. Lewis & M. Lewis						ROS			
<i>Clarkia epilobioides</i> (Torr. & A. Gray) A. Nelson & J.F. Clarkia		CLE		CAT		ROS	CRU	ANA	
<i>Clarkia prostrata</i> H. Lewis & M. Lewis									
<i>Clarkia purpurea</i> (Curtis) A. Nelson & J.F. Macbr.	ssp. <i>quadrivulnera</i> (Lindl.) H. Lewis & M. Lewis			CAT		ROS	CRU		
<i>Clarkia unguiculata</i> Lindl.							CRU		
<i>Epilobium brachycarpum</i> C. Presl		CLE, <sup>179</sup>		CAT			CRU		
<i>Epilobium canum</i> (Greene) P.H. Raven <sup>180</sup>		CLE, <sup>179</sup>		CAT <sup>181</sup>		ROS	CRU	ANA	MIG
<i>Epilobium canum</i> (Greene) P.H. Raven	ssp. <i>canum</i>	CLE		CAT			CRU	ANA	

178]CR: T.S. Ross, Janet Takara, Stacey Otte Apr 24 1993 6964

179]Pers. com. E. Howe

180]This taxa unresolved

181]SDSU: R.M. Beauchamp August 8, 1966 54

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Epilobium ciliatum</i> Raf.				CAT			CRU		MIG
<i>Eulobus californicus</i> Torr. & A. Gray				CAT		ROS	CRU		
<i>Ludwigia peploides</i> (Kunth) P.H. Raven							CRU		
<i>Oenothera xenogaura</i> W.L. Wagner & Hoch*							CRU		
<i>Oenothera sinuosa</i> W.L. Wagner & Hoch*				CAT					
<i>Oenothera elata</i> Kunth.	ssp. <i>hirsutissima</i> (S. Watson) W. Dietr.						CRU		
Orobanchaceae									
<i>Castilleja affinis</i> Hook. & Arn.	ssp. <i>affinis</i>			CAT		ROS	CRU	ANA	MIG
<i>Castilleja attenuata</i> (A. Gray) T.I. Chuang & Heckard							CRU		
<i>Castilleja densiflora</i> (Benth.) T.I. Chuang & Heckard			NIC			ROS	CRU		MIG
<i>Castilleja exserta</i> (A. Heller) T.I. Chuang & Heckard				CAT		ROS	CRU		MIG
<i>Castilleja foliolosa</i> Hook. & Arn.				CAT					
<i>Castilleja grisea</i> Dunkle		CLE				ROS	CRU	ANA	MIG
<i>Castilleja hololeuca</i> Greene									
<i>Castilleja mollis</i> Pennell						ROS	CRU	ANA	MIG
<i>Kopsipopsis strobilacea</i> (A. Gray) Beck						ROS			
<i>Orobanche bulbosa</i> Beck				CAT		ROS	CRU		
<i>Orobanche californica</i> Cham. & Schltdl.						ROS			
<i>Orobanche fasciculata</i> Nutt.	ssp. <i>grandis</i> Heckard					ROS	CRU	ANA	MIG
<i>Orobanche parishii</i> (Jeps.) Heckard	ssp. <i>brachyloba</i> Heckard		NIC	CAT		ROS	CRU		MIG
<i>Orobanche uniflora</i> L.		CLE? <sup>182</sup>					CRU		
Oxalidaceae									
<i>Oxalis articulata</i> Savigny*	ssp. <i>rubra</i> (A. St.-Hil.) Lourteig			CAT		ROS	CRU		
<i>Oxalis californica</i> (Abrams) R. Knuth				CAT		ROS	CRU		
<i>Oxalis corniculata</i> L.*		CLE <sup>183</sup>	NIC	CAT		ROS	CRU		
<i>Oxalis pes-caprae</i> L.*		CLE	NIC	CAT			CRU		
Papaveraceae									
<i>Dendromecon harfordii</i> Kellogg				CAT		ROS	CRU		
<i>Ehrendorferia ochroleuca</i> (Engelm.) Fukuhara							CRU		
<i>Eschscholzia californica</i> Cham.		CLE <sup>184</sup>	NIC	CAT		ROS	CRU		MIG
<i>Eschscholzia ramosa</i> (Greene) Greene		CLE	NIC	CAT	BAR	ROS	CRU		
<i>Meconella denticulata</i> Greene						ROS	CRU		
<i>Papaver californicum</i> A. Gray						ROS	CRU		
<i>Papaver heterophyllum</i> (Benth.) Greene		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Papaver somniferum</i> L.*				CAT			CRU		
<i>Platystemon californicus</i> Benth.			NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Romneya coulteri</i> Harv.*				CAT			CRU		

<sup>182</sup>Pers. com. E. Howe<sup>183</sup>FRSA: Steven A. Junak May 14 1985 SC1-56<sup>184</sup>FRSA: M.B. Dunkle May 27 1928 1983

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Phymaceae									
<i>Mimulus aurantiacus</i> Curtis	var. <i>aurantiacus</i>			CAT <sup>185</sup>					
<i>Mimulus aurantiacus</i> Curtis	var. <i>parviflorus</i> (Greene) D.M. Thomps.	CLE				ROS	CRU	ANA	
<i>Mimulus aurantiacus</i> Curtis	var. <i>pubescens</i> (Torr.) D.M. Thomps.					ROS	CRU		
<i>Mimulus aurantiacus</i> Curtis	var. <i>purpureus</i> (Nutt.) D.M. Thomps.			CAT					
<i>Mimulus cardinalis</i> Benth.				CAT			CRU		
<i>Mimulus floribundus</i> Lindl.		CLE <sup>186</sup>		CAT		ROS			
<i>Mimulus guttatus</i> DC.		CLE		CAT		ROS	CRU		
<i>Mimulus latifolius</i> A. Gray				CAT <sup>187</sup>			CRU		
<i>Mimulus traskiae</i> A.L. Grant				CAT					
Pitosporeaceae									
<i>Pitiosporum undulatum</i> Vent.*				CAT <sup>188</sup>					
Plantaginaceae									
<i>Antirrhinum kelloggii</i> Greene				CAT			CRU		
<i>Antirrhinum multiflorum</i> Pennell							CRU		
<i>Antirrhinum nuttallianum</i> A. DC.	ssp. <i>subsessile</i> (A. Gray) D.M. Thomps.	CLE		CAT		ROS	CRU	ANA	MIG
<i>Callitriche marginata</i> Torr.		CLE		CAT					
<i>Collinsia heterophylla</i> Graham		CLE				ROS			
<i>Gambelia speciosa</i> Nutt.		CLE		CAT	BAR				
<i>Keckiella cordifolia</i> (Benth.) Straw		CLE		CAT		ROS	CRU	ANA	
<i>Kickxia elatine</i> (L.) Dumort.*				CAT <sup>189</sup>					
<i>Linaria bipartita</i> (Vent.) Willd.*				CAT					
<i>Nuttallanthus texanus</i> (Scheele) D.A. Sutton		CLE		CAT		ROS	CRU	ANA	MIG
Veronica anagallis-aquatica L.*									
<i>Veronica anagallis-aquatica</i> L.*							CRU		
<i>Plantago coronopus</i> L.*			NIC	CAT				ANA	MIG
<i>Plantago elongata</i> Pursh						ROS	CRU		MIG
<i>Plantago erecta</i> E. Morris		CLE		CAT		ROS	CRU	ANA	
<i>Plantago lanceolata</i> L.*		CLE		CAT <sup>190</sup>			CRU		MIG
<i>Plantago major</i> L.*			NIC	CAT			CRU		
<i>Plantago maritima</i> L.						ROS			
<i>Plantago ovata</i> Forssk.		CLE		CAT	BAR	ROS	CRU	ANA	MIG
<i>Plantago subnuda</i> Pilg.*	var. <i>insularis</i> (Eastw.) S.C. Meyers & A. Liston		NIC	CAT		ROS	CRU		MIG
Plantanaceae									
<i>Plantanus racemosa</i> Nutt.				CAT*			CRU		

<sup>185</sup>OBE: John Knapp, Denise Knapp, 7, April 13, 2003

<sup>186</sup>SBBG: S. Boyd, T. Ross, L. Amstedt, Apr 8 1990 4291

<sup>187</sup>Dave M. Thompson 2012, *Mimulus*, in Jepson Flora Project (eds.) Jepson eFlora, accessed on May 7 2014

<sup>188</sup>GH: R.F. Thorne & A.D. Probst 1974 09-12 45100

<sup>189</sup>SBBG: M.L. Hoels, R.F. Thorne, J. Takara Jul 25 1995 2458

<sup>190</sup>SBBG: M.L. Hoels, R.F. Thorne Apr 6 1996 2671



## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Plumbaginaceae									
<i>Armeria maritima</i> (Mill.) Willd.						ROS			
<i>Limonium californicum</i> (Boiss.) A. Heller*	ssp. <i>californica</i> (Boiss.) A.E. Porsild	CLE <sup>?</sup> 191							
<i>Limonium peresii</i> (Stapf) F.T. Hubb.*		CLE		CAT				ANA &	MIG &
<i>Limonium sinuatum</i> (L.) Mill.*		CLE		CAT					
Polemoniaceae									
<i>Allophylum glutinosum</i> (Benth.) A.D. Grant & V.E. Grant		CLE		CAT			CRU		
<i>Eriastrum filifolium</i> (Nutt.) Wooton & Standl.		CLE		CAT					
<i>Gilia achilleifolia</i> Benth.	ssp. <i>multicaulis</i> (Benth.) V.E. Grant & A.D. Grant	CLE		CAT		ROS	CRU		
<i>Gilia engelensis</i> V.E. Grant		CLE		CAT			CRU		
<i>Gilia capitata</i> Sims	ssp. <i>abrotanifolia</i> (Greene) V.E. Grant	CLE		CAT		ROS	CRU	ANA	MIG
<i>Gilia chlorum</i> (Jeps.) V.E. Grant		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Gilia nevadensis</i> A. Gray	ssp. <i>hoffmannii</i> (Eastw.) A.D. Grant & V.E. Grant	CLE		CAT		ROS	CRU		MIG
<i>Gilia tenuiflora</i> Benth.		CLE		CAT					
<i>Leptosiphon bicolor</i> Nutt.		CLE		CAT					
<i>Leptosiphon parviflorus</i> Benth.		CLE		CAT		ROS	CRU		
<i>Leptosiphon pygmaeus</i> (Brand) J.M. Porter & L.A. Johnson	ssp. <i>pygmaeus</i>	CLE		CAT					
<i>Linanthus dianthiflorus</i> (Benth.) Greene		CLE		CAT			CRU		
<i>Navarretia atractylloides</i> (Benth.) Hook. & Arn.		CLE		CAT		ROS	CRU		
<i>Navarretia hamata</i> Greene	ssp. <i>leptantha</i> (Greene) H. Mason	CLE		CAT					
Polygalaceae									
<i>Polygala californica</i> Nutt.							CRU		
<i>Chorizanthe staticoides</i> Benth.				CAT					
<i>Chorizanthe wheeleri</i> S. Watson				CAT		ROS	CRU		
<i>Eriogonum arborescens</i> Greene						ROS	CRU	ANA	
<i>Eriogonum chieretum</i> Benth.			NIC <sup>192*</sup>			ROS			
<i>Eriogonum fasciculatum</i> Benth.*	var. <i>fasciculatum</i>			CAT <sup>193</sup>					
<i>Eriogonum fasciculatum</i> Benth.*	var. <i>polifolium</i> (Benth.) Torr. & A. Gray		NIC		BAR				
<i>Eriogonum giganteum</i> S. Watson	var. <i>compactum</i> Dunkle								
<i>Eriogonum giganteum</i> S. Watson	var. <i>formosum</i> K. Brandegee	CLE		CAT		ROS	CRU*		ANA
<i>Eriogonum giganteum</i> S. Watson	var. <i>giganteum</i>	CLE		CAT			CRU		
<i>Eriogonum grande</i> Greene	var. <i>grande</i>	CLE		CAT		ROS	CRU		ANA

<sup>191</sup>Pers. com. E. Howe  
<sup>192</sup>S.BBC: S.A. Junak, T. Murphy, SN-432, Feb 21, 1990  
<sup>193</sup>HSC: R.F. Thorne, D. Propst, M. Haefl, Sep 12, 1974, 45110

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Eriogonum grande</i> Greene	ssp. <i>rubescens</i> (Greene) Munz					ROS	CRU	ANA	MIG
<i>Eriogonum grande</i> Greene	var. <i>tinorum</i> Reveal		NIC	CAT		ROS	CRU		
<i>Lastarratea coriacea</i> (Goodman) Hoover									
<i>Persicaria lapathifolia</i> (L.) Gray									
<i>Polygonum argyrocoleon</i> Kunze*		CLE	NIC	CAT			CRU		
<i>Polygonum aviculare</i> L.*	ssp. <i>depressum</i> (Meisn.) Arcang.	CLE	NIC	CAT		ROS	CRU	ANA	
<i>Pterostegia drymarioides</i>	Fisch. & C.A. Mey.	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Rumex acetosella</i> L.*						ROS	CRU		
<i>Rumex conglomeratus</i> Murray*		CLE <sup>194</sup>		CAT		ROS	CRU		
<i>Rumex crispus</i> L.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Rumex fueginus</i> Phil.									MIG
<i>Rumex obtusifolius</i> L.*			NIC	CAT					
<i>Rumex pulcher</i> L.*							CRU		
<i>Rumex salicifolius</i> Weimm.		CLE	NIC	CAT		ROS	CRU		MIG
Portulacaceae									
<i>Portulaca oleracea</i> L.*				CAT			CRU		
Primulaceae									
<i>Dodecatheon cleveandtii</i> Greene	ssp. <i>insulare</i> H.J. Thomps.	CLE	NIC	CAT		ROS	CRU	ANA	MIG
Ranunculaceae									
<i>Clematis lasiantha</i> Nutt.							CRU		
<i>Clematis ligusticifolia</i> Nutt.				CAT		ROS	CRU		
<i>Clematis pauciflora</i> Nutt.							CRU		
<i>Delphinium parryi</i> A. Gray	ssp. <i>maritimum</i> (Davidson) M.J. Warnock			CAT		ROS	CRU	ANA	MIG
<i>Delphinium parryi</i> A. Gray	ssp. <i>parryi</i>			CAT			CRU		
<i>Delphinium variegatum</i> Torr. & A. Gray	ssp. <i>kinakense</i> (Munz) M.J. Warnock	CLE							
<i>Delphinium variegatum</i> Torr. & A. Gray	ssp. <i>thornei</i> Munz	CLE							
<i>Ranunculus californicus</i> Benth.				CAT		ROS	CRU		MIG
<i>Ranunculus hebecarpus</i> Hook. & Arn.				CAT					
Resedaceae									
<i>Oligomeris limifolia</i> (Hornem.) J.F. Macbr.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Reseda odorata</i> L.*				CAT					
Rhamnaceae									
<i>Ceanothus arboreus</i> Greene				CAT		ROS	CRU		
<i>Ceanothus megacarpus</i> Nutt.	var. <i>insularis</i> (Eastw.) Munz	CLE		CAT		ROS	CRU	ANA	MIG&
<i>Ceanothus megacarpus</i> Nutt.	var. <i>megacarpus</i>	CLE		CAT			CRU		
<i>Frangula californica</i> (Eschsch.) A. Gray	ssp. <i>californica</i>	CLE		CAT		ROS	CRU		MIG&
<i>Rhamnus pirifolia</i> Greene							CRU		
Rosaceae									
<i>Adenostoma fasciculatum</i> Hook. & Arn.	var. <i>fasciculatum</i>	CLE		CAT		ROS	CRU		

<sup>194</sup>SD: Steven A. Junak May 18, 1996 SCI488a

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Adenostoma fasciculatum</i> Hook. & Arn.	var. <i>prostratum</i> Dunkle			CAT		ROS	CRU		
<i>Aphanes occidentalis</i> (Nutt.) Rydb.		CLE		CAT		ROS	CRU		
<i>Cercocarpus betuloides</i> Nutt.	var. <i>betuloides</i>			CAT		ROS	CRU		
<i>Cercocarpus betuloides</i> Nutt.	var. <i>blancheae</i> (C.K. Schneid.) Little			CAT		ROS	CRU		
<i>Cercocarpus traskiae</i> Eastw.				CAT					
<i>Drymocalis glandulosa</i> (Lindl.) Rydb. <sup>195</sup>				CAT					
<i>Heteromeles arbutifolia</i> (Lindl.) M. Roem.		CLE		CAT		ROS	CRU	ANA	MIG
<i>Holodiscus discolor</i> (Pursh) Maxim.				CAT			CRU		
<i>Lynothamnus floribundus</i> A. Gray	ssp. <i>asplenifolius</i> (Greene) P.H. Raven	CLE		CAT		ROS	CRU		
<i>Lynothamnus floribundus</i> A. Gray	ssp. <i>floribundus</i>			CAT					
<i>Potentilla anserina</i> L.	ssp. <i>paefifica</i> (Howell) Rousi			CAT <sup>196</sup>			CRU		MIG
<i>Poterium sanguisorba</i> L.*				CAT			CRU	ANA	
<i>Prunus ilicifolia</i> (Hook. & Arn.) D. Dietr.	ssp. <i>lyonii</i> (Eastw.) P.H. Raven	CLE		CAT		ROS	CRU		
<i>Rosa californica</i> Cham. & Schltdl.				CAT		ROS	CRU		
<i>Rubus ursinus</i> Cham. & Schltdl.				CAT		ROS	CRU		MIG
Rubiaceae									
<i>Galium angustifolium</i> subsp.	ssp. <i>foliosum</i> (Hilend & J.T. Howell) Dempster & Stebbins					ROS	CRU	ANA	
<i>Galium angustifolium</i> A. Gray	ssp. <i>angustifolium</i>			CAT			CRU	ANA	MIG
<i>Galium aparine</i> L.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Galium buxifolium</i> Greene							CRU		MIG
<i>Galium californicum</i> Hook. & Arn.	ssp. <i>flaccidum</i> (Greene) Dempster & Stebbins						CRU		
<i>Galium californicum</i> Hook. & Arn.	ssp. <i>miguelense</i> (Greene) Dempster & Stebbins					ROS			MIG
<i>Galium catalinense</i> A. Gray	ssp. <i>acrispum</i> Dempster	CLE							
<i>Galium catalinense</i> A. Gray	ssp. <i>catalinense</i>			CAT					
<i>Galium nuttallii</i> A. Gray	ssp. <i>insulare</i> Ferris			CAT		ROS	CRU		
<i>Galium parisiense</i> L.*				CAT <sup>197</sup>		ROS			
<i>Galium porrigens</i> Dempster	var. <i>porrigens</i>			CAT		ROS	CRU		
Rutaceae									
<i>Ruta chalepensis</i> L.*				CAT					
Salicaceae									
<i>Populus fremontii</i> S. Watson	ssp. <i>fremontii</i>			CAT			CRU		
<i>Populus trichocarpa</i> Hook.				CAT		ROS	CRU		
<i>Salix exigua</i> Nutt.			NIC				CRU		
<i>Salix gooddingii</i> C. R. Ball		CLE							
<i>Salix laevigata</i> Bebb				CAT			CRU		

<sup>195</sup>Synonym: *Potentilla glandulosa* Lindl.<sup>196</sup>[C; Tim Ross, 6923, Apr 22, 1993<sup>197</sup>SBBC; S.A. Junak, M.L. Hoefs, K. Kirkland Jul 17 1998 SCA-769

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Salix lasianдра</i> Benth.							CRU		
<i>Salix lasiolepis</i> Benth.	var. <i>lasianдра</i>	CLE? <sup>198</sup>	NIC	CAT		ROS	CRU	ANA	MIG
Sapindaceae									
<i>Acer macrophyllum</i> Pursh							CRU		
Saxifragaceae									
<i>Heuchera maxima</i> Greene						ROS	CRU	ANA	
<i>Jepsonia matifolia</i> (Greene) Small		CLE	NIC	CAT		ROS	CRU		
<i>Lithophragma affine</i> A. Gray				CAT					
<i>Lithophragma cymbalaria</i> Torr. & A. Gray						ROS	CRU		
<i>Lithophragma maximum</i> Baccig.									
<i>Micranthes californica</i> (Greene) Small <sup>199</sup>		CLE				ROS	CRU		
Scrophulariaceae									
<i>Myoporum laetum</i> G. Forst. *		CLE <sup>201</sup>	NIC			ROS	CRU &		
<i>Scrophularia californica</i>									
Cham. & Sehtld.									
<i>Scrophularia villosa</i> Pennell		CLE		CAT			CRU		
<i>Verbascum thapsus</i> L. *									
Solanaceae									
<i>Datura wrightii</i> Regel		CLE? <sup>202*</sup>		CAT		ROS	CRU		
<i>Lycium brevipes</i> Benth.									
<i>Lycium californicum</i> Nutt.		CLE	NIC	CAT &			CRU	ANA	MIG
<i>Lycium fremontii</i> A. Gray		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Lycium verrucosum</i> Eastw.			NIC &						
<i>Lycopersicon esculentum</i> Mill. *		CLE? <sup>203</sup>	NIC	CAT <sup>204</sup>	BAR &		CRU	ANA &	MIG &
<i>Nicotiana cleveandtii</i> A. Gray									
<i>Nicotiana glauca</i> Graham *		CLE? <sup>206</sup>	NIC	CAT <sup>205</sup>	BAR		CRU	ANA	
<i>Nicotiana quadrivalvis</i> Pursh				CAT			CRU		
<i>Petunia parviflora</i> Juss.				CAT <sup>207</sup>					
<i>Solanum americanum</i> Mill. *									
<i>Solanum douglasii</i> Dunal		CLE <sup>208</sup>	NIC	CAT	BAR	ROS <sup>209</sup>	CRU	ANA	MIG

198Pers. com. E. Howe

199Synonym: *Stafifraga californica* Greene

200SBBG: S.A. Junak Mar 13 1997 SCI-770

201SBBG: S.A. Junak Jul 31 1981 SCI-53

202Pers. com. E. Howe

203Pers. com. E. Howe

204RSA: R.F. Thorne, 47381, Sep 4 1975

205RSA: Blanche Trask Mar 1901 s.n.

206Pers. com. E. Howe

207SD: Robert F. Thorne, P. Everett, 34883, Jun 22, 1965

208SBBG: H.L. Ferguson, R.M. Reuchamp Sep 15 1979

209SBBG: S.A. Junak Sep 23 1995 SR-896

## APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Solanum elaeagnifolium</i> Cav.*				CAT		ROS	CRU		
<i>Solanum wallacei</i> (A. Gray) Parish				CAT		ROS	CRU		
Tamaricaceae									
<i>Tamarix aphylla</i> (L.) H. Karst.*						ROS			
<i>Tamarix chinensis</i> Lour.*		CLE? <sup>210</sup>							
<i>Tamarix parviflora</i> DC.*			NIC	CAT <sup>211</sup>		ROS	CRU	ANA	MIG
<i>Tamarix ramosissima</i> Ledeb.*		CLE							
Theophrastaceae									
<i>Samolus parviflorus</i> Raf.							CRU		
Tropaeolaceae									
<i>Tropaeolum majus</i> L.*		CLE <sup>212</sup>		CAT	BAR&				
Ulmaceae									
<i>Ulmus hollandica</i> Mill.*							CRU		
Urticaceae									
<i>Hesperocnide tenella</i> Torr.		CLE		CAT	BAR	ROS	CRU		
<i>Parietaria hespera</i> Hinton		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Soleirolia soleirolii</i> (Req.) Dandy*			NIC						
<i>Urtica dioica</i> L.				CAT		ROS	CRU	ANA	
<i>Urtica urens</i> L.	ssp. <i>holosericea</i> (Nutt.) Thorne			CAT		ROS	CRU		MIG
Valerianaceae									
<i>Centranthus ruber</i> (L.) DC.*				CAT			CRU		
<i>Plectritis ciliosa</i> (Greene) Jeps.							CRU		
Verbenaceae									
<i>Phyla nodiflora</i> (L.) Greene*		CLE <sup>213</sup>		CAT			CRU <sup>214</sup>		
<i>Verbena bracteata</i> Lag. & Rodr.		CLE <sup>215</sup>		CAT		ROS			
<i>Verbena lasiostachys</i> Link	var. <i>lasiostachys</i>	CLE	NIC	CAT					
<i>Verbena lasiostachys</i> Link	var. <i>scabrida</i> Moldenke			CAT		ROS	CRU		MIG
Violaceae									
<i>Viola pedunculata</i> Torr. & A. Gray		CLE		CAT		ROS	CRU		
Vitaceae									
<i>Vitis girdiana</i> Munson				CAT					
Zygophyllaceae									
<i>Tribulus terrestris</i> L.*				CAT <sup>216</sup>					
<b>NUMBER OF SPECIES</b>		<b>436</b>	<b>279</b>	<b>633</b>	<b>150</b>	<b>519</b>	<b>662</b>	<b>271</b>	<b>296</b>

<sup>210</sup>Pers. com. E. Howe<sup>211</sup>RSA: R.E. Thorne, 45759, Mar 22 1975<sup>212</sup>UCR: T.S. Ross, 5434, May 22 1991<sup>213</sup>SBBC: H.L. Ferguson Mar 12 1981 234<sup>214</sup>SBBC: S.A. Junak, R.N. Philbrick, M.C. Hochberg, SC-63, May 9 1979<sup>215</sup>PSA: E. Kellogg Jun 28 1992 s.n.<sup>216</sup>SBBC: S.A. Junak, K. Kirkland, M. Bushman Oct 21 1998 SCa-815