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

Sarah E. Ratay¹, Sula E. Vanderplank², and Benjamin T. Wilder³

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 diecisésis 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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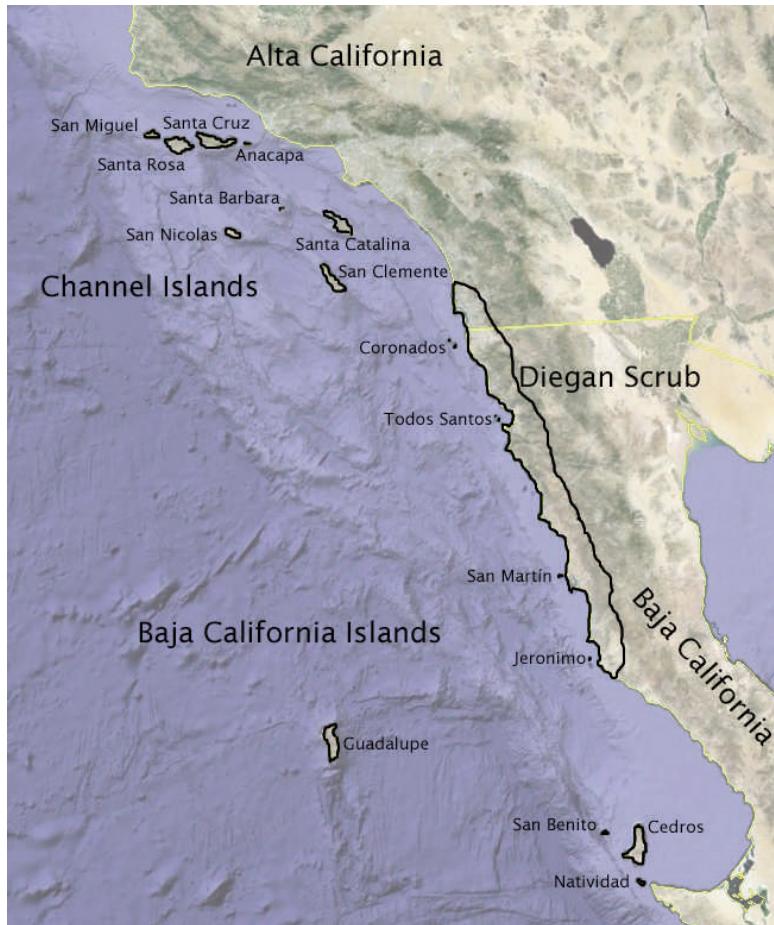


Fig. 1. California Channel and Baja California Pacific Islands with Diegan Scrub as defined by Axelrod (1978). Map by B.T. Wilder, adapted from Google Earth™ imagery.

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, Jerónimo, 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 Jerónimo 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 complied 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 (Appendices 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.^a 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>Acmspon argophyllum</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
Phymaceae	<i>Mimulus latifolius</i>	Herb				GUA		
Plantaginaceae	<i>Gambelia speciosa</i>	Shrub				GUA		
Poaceae	<i>Disanthelium californicum</i>	Herb				GUA		
Polemoniaceae	<i>Gilia nevinii</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		
NUMBER OF SPECIES			2	3	3	21	0	5

^aNatividad [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
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					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
3	3		20	6	20	4	10	11	5	2	21	24	

[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 1 on page 169.

Appendix 2 on page 188.

APPENDIX 1. Plant species checklist for the 8 Baja California islands (Cedros [CED], Coronados [COR], Coronado [TOS], 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	CED	NAT
FERNS									
Dryopteridaceae									
<i>Polystichum munitum</i> (Kaulf.) C. Presl						GUA			
Polyodiaceae									
<i>Polyodium californicum</i> Kaulf.		COR	TOS			GUA			
<i>Polyodium scouleri</i> Hook. & Grev.						GUA			
Peridaceae									
<i>Adiantum capillus-veneris</i> L.								CED	
<i>Chelidanthus brandegeei</i> D.C. Eaton								CED	
Pteridaceae									
<i>Chelidanthus newberryi</i> Domin									
<i>Notholaena californica</i> D.C. Eaton	ssp. <i>californica</i>					GUA		CED	
<i>Notholaena californica</i> D.C. Eaton	ssp. <i>leucophylla</i> Windham					GUA		CED	
<i>Pellaea andromedifolia</i> (Kaulf.) Fee		COR						CED	
<i>Pellaea mucronata</i> D.C. Eaton	var. <i>mucronata</i>					GUA		CED	
<i>Pentagramma triangularis</i>	ssp. <i>triangularis</i>								
(Kaulf.) Yatskievych et al.									
<i>Pentagramma triangularis</i>	ssp. <i>maxonii</i> (Weath.) Yatsk., Windham					GUA		CED?	
(Kaulf.) Yatskievych et al.	& E. Wollenw.								
<i>Pentagramma triangularis</i>	ssp. <i>viscosa</i> (D.C. Eaton) Yatsk., Windham,					GUA			
(Kaulf.) Yatskievych et al.	& E. Wollenw.								
<i>Pentagramma triangularis</i>	ssp. <i>semipalida</i> (J.T. Howell) Yatsk.,					GUA			
(Kaulf.) Yatskievych et al	Windham & E. Wollenw.								
GYMNOSPERMS									
Cupressaceae									
<i>Hesperocyparis guadalupensis</i>						GUA			
(S. Watson) Bartel'									
<i>Juniperus californica</i> Carrière						GUA		CED	
Ephedraceae									
<i>Ephedra aspera</i> S. Watson								CED	
MONOCOTS									
Arecaceae									
<i>Brahea edulis</i> H. Wendl. ex S. Watson						GUA			

¹Synonym: *Cupressus guadalupensis* S. Watson

APPENDIX 1. Continued

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²Report confirmed, herbarium specimen @ SD

³New record; herbarium specimen @ RSA, SD

⁴New record; herbarium specimen @ RSA, SD

Synonym: *Monanthochloe littoralis* Engelm

Synonym: *Lamium gaudichaudii* (L.) Benth.

Synonym: *Leymus condensatus* (J. Presl) A. Löv.

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Festuca microstachys</i> Nutt. ⁸	var. <i>pauciflora</i> Scribn.	COR	TOS	MAR		GUA		CED	
<i>Festuca myuros</i> L. ⁹ *	var. <i>octoflora</i>		TOS	MAR		GUA		CED	
<i>Festuca octoflora</i> Walt. ¹⁰	ssp. <i>glaucum</i> (Steud.) Tzvelev.	COR	TOS	MAR		GUA		CED	
<i>Hordeum murinum</i> L.*	ssp. <i>leporinum</i> (Link) Arcang.	COR	TOS	MAR		GUA		CED	
<i>Hordeum murinum</i> L.*		COR	TOS	MAR		GUA		CED	
<i>Lamarcia aurea</i> (L.) Moench*									
<i>Medica frutescens</i> Scribnier									
<i>Melica imperfecta</i> Trin.									
<i>Muhlenbergia microsterna</i> (DC.) Kunth									
<i>Phalaris caroliniana</i> Walt.									
<i>Phalaris minor</i> Retz.*									
<i>Piptochaetium pringlei</i> (Beal) Parodi									
<i>Poa annua</i> L.*									
<i>Poa secunda</i> J.S. Presl	ssp. <i>secunda</i>		TOS ¹¹			GUA		CED	
<i>Poa thomasi</i> Refulio ¹²						GUA		CED	
<i>Polygonum viridis</i> (Gouan) Breistr. ¹³ *						GUA		CED	
<i>Polygonum monspeliacum</i> * (L.) Desf.			TOS			GUA		CED	
<i>Schismus barbatus</i> (L.) Thell.*						GUA		CED	
<i>Sorghum bicolor</i> (L.) Moench*						GUA		CED	
<i>Stipa speciosum</i> Trin. & Rupr. ¹⁴						GUA		CED?	
<i>Stipa lepida</i> A. Hitchc. ¹⁵						GUA		CED?	
<i>Stipa diegensis</i> Swallen						GUA		CED?	
<i>Stipa pulchra</i> Hitchc.						GUA		CED?	
<i>Triticum aestivum</i> L.*						GUA		CED?	
<i>Zea mays</i> L.*						GUA		CED?	
Thymelaeaceae									
<i>Dichelostemma capitatum</i> Alph. Wood	ssp. <i>capitatum</i>								
<i>Triteleia glandulifera</i> L.W. Lenz									
<i>Tritelelopsis palmeri</i> (S. Watson) Hoover									
Typhaceae									
<i>Typha latifolia</i> L.									
Zosteraceae									
<i>Phyllospadix scouleri</i> Hook.									

⁸Synonym: *Vulpia microstachys* (Nutt.) Murno⁹Synonym: *Vulpia myuros* (L.) C.C. Gmel.¹⁰Synonyms: *Vulpia octoflora* (Walter) Rüdbr. var. *octoflora* and *V. a. var. hirtella* (Piper) Honnrad¹¹New record; herbarium specimen @ SD (Thorne 53921)¹²Synonym: *Stenocloea californica* Nutt.¹³Synonym: *Aegrota seminervata* (Forsk.) C. Chr.¹⁴Synonym: *Actinatherium speciosissimum* (Trin. & Rupr.) Barkworth¹⁵Synonym: *Nassella lepida* (Hitchc.) Barkworth

APPENDIX 1. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUА	BEN	CED	NAT
<i>Phyllospadix torreyi</i> S. Watson		TOS	MAR	MAR	JER	GUА GUА	BEN		
<i>Zostera marina</i> L.									
BASAL DICOTS									
Saururaceae	<i>Anemopsis californica</i> (Nutt.) H. & A.							CED?	
EUDICOTS									
Aizooceae									
<i>Carpobrotus chilensis</i> (Molina) N.E. Br.*		COR	TOS	MAR	JER	GUА GUА	BEN	CED	NAT
<i>Mesembryanthemum crystallinum</i> L.*		COR	TOS	MAR	JER	GUА GUА	BEN	CED?	NAT
<i>Mesembryanthemum nodiflorum</i> L.*		COR	TOS	MAR	JER	GUА GUА	BEN	CED?	NAT
Anacardiaceae									
<i>Malosma laurina</i> (Nutt. in T. & G.) Nutt. ex Abrams		TOS				GUА		CED	
<i>Pachycormus discolor</i> (Benth.) Cov.	var. <i>veatchiana</i> (Kell.) Gentry	TOS				GUА		CED	
<i>Rhus integrifolia</i> (Nutt.) Brewer & S. Watson		TOS				GUА		CED	
<i>Rhus integrifolia</i> × <i>lentii</i>								CED	
<i>Rhus lentii</i> Kell.								CED	
Apiaceae								CED?	
<i>Coriandrum 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.								CED?	
<i>Daucus pusillus</i> Michaux		COR	TOS			GUА GUА GUА			
<i>Lomatium nudifolium</i> (Eastw.) Munz.									
<i>Yabea microcarpa</i> (Hook. & Arn.) Koso-Pol. ¹⁶									
Apocynaceae									
<i>Asclepias subulata</i> Decne. in A. DC.									
<i>Nerium oleander</i> L.*						GUА			
Araliaceae	<i>Hydrocotyle umbellata</i> ¹⁷							CED	
Asteraceae									
<i>Agoseris heterophylla</i> (Nutt.) Greene						GUА			
<i>Amauria rotundifolia</i> Benth.									
<i>Amphylopappus pusillus</i> Hook. & Arn.		COR	TOS	MAR	MAR	GUА GUА	BEN	CED	NAT
<i>Ambrosia camphorata</i> (Greene) Payne								CED	
<i>Ambrosia chamissonis</i> (Less.) Greene								CED?	
<i>Ambrosia chenopodiifolia</i> (Benth.) Payne								CED	
<i>Ambrosia magdalena</i> (Brandegee) Payne								CED	

¹⁶New record; herbarium specimen @ RSA, SD
¹⁷New record; herbarium specimen @ SD (166694, Amadeo Rea 1568, 22 Feb 1988)

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUА	BEN	CED	NAT
<i>Artemisia californica</i> Less.		COR	TOS			GUА		CED	CED
<i>Baccharis starothroides</i> A. Gray		COR				GUА		CED	
<i>Baeriopsis guadalupensis</i> J.T. Howell			TOS			GUА			
<i>Bahlopsis acinata</i> A. Gray ¹⁸									
<i>Bebbia juncea</i> (Benth.) Greene	var. <i>junccea</i>							CED	NAT
<i>Brickellia microphylla</i> (Nutt.) A. Gray								CED?	CED
<i>Centaurea melitensis</i> L.*									
<i>Chaenactis glabriuscula</i> DC. ¹⁹	var. <i>glabriuscula</i>	COR	TOS			GUА			
<i>Chaenactis lacera</i> Greene ²⁰									
<i>Coreocarpus incertus</i> Greene									NAT
<i>Deinandra fasciculata</i> (DC.) Greene									
<i>Deinandra frutescens</i> (A. Gray) B.G. Baldwin									
<i>Deinandra greeniana</i> (Rose) B.G. Baldwin									
<i>Deinandra palmeri</i> (Rose) B.G. Baldwin									
<i>Deinandra palmeri</i> × <i>D. greeniana</i>									
<i>Deinandra peninsulae</i> (Moran)									
B.G. Baldwin ²¹									
<i>Deinandra strictifolia</i> (A. Gray) B.G. Baldwin									
<i>Encelia asperifolia</i> (S.F. Blake) Clark & Kynhos									
<i>Encelia californica</i> Nutt.									
<i>Encelia palmeri</i> Vasey & Rose									
<i>Encelia stenophylla</i> Greene									
<i>Ericameria brachylepis</i> (A. Gray) Hall									
<i>Erigeron sumatrensis</i> Retz. ^{23*}									
<i>Eriophyllum confertiflorum</i> (DC.) A. Gray									
<i>Eriophyllum lanatum</i> (Pursh) J. Forbes	var. <i>grandiflorum</i>	COR				GUА		CED	
<i>Glechionis coronarium</i> (L.) Cass. ex Spach ^{24*}									
<i>Greenella trinervosa</i> Greene									
<i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby									
<i>Hazardia berberidis</i> (A. Gray) Greene									
<i>Hazardia cana</i> (A. Gray) Greene									
<i>Hazardia oreocytii</i> (A. Gray) Greene ²⁵									
<i>Hypochoeris glabra</i> L.*									

¹⁸Synonym: *Vigantia laciniata* A. Gray¹⁹New record; herbarium specimen @ SD
²⁰New record; herbarium specimen @ SD²¹Synonym: *Hemizonia greeniana* Rose ssp. *peptisulatis* (Moran) B.L. Turner
²²New record; herbarium specimen @ SD²³Synonym: *Conyza floribunda* Kunth
²⁴Synonym: *Chrysanthemum coronarium* L.²⁵New record; herbarium specimen @ SD (5248; Ralph Sumner, s.n. 1920—specimen recently identified)

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUА	BEN	CED	NAT
<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>menziesii</i>		TOS					CED	
<i>Iva hayesiana</i> A. Gray.								CED	
<i>Lashertia coronaria</i> (Nutt.) Ornduff		COR	TOS			GUА			
<i>Lashertia gracilis</i> (DC.) Greene		COR	TOS			GUА		CED ²	
<i>Layia platyglossa</i> (Fisch. & Mey.) A. Gray						GUА			
<i>Leptosyne gigantea</i> Kellogg ²⁶						GUА			
<i>Leptosyne maritima</i> (Nutt.) A. Gray ²⁷		COR	TOS	MAR		GUА			
<i>Logfia arizonica</i> (A. Gray) Holub ²⁸						GUА		CED ²	
<i>Logfia filaginoides</i> (Hook. & Arn.) Morefield ²⁹			TOS			GUА		CED	
<i>Malacothrix clevelandii</i> A. Gray						GUА			
<i>Malacothrix foliosa</i> A. Gray		COR							
<i>Malacothrix insularis</i> Greene		COR							
<i>Malacothrix similis</i> Davis & Raven		COR	TOS			GUА			
<i>Matricaria occidentalis</i> Greene ^{30*}						GUА			
<i>Micropus californicus</i> Fisch. & C.A. Mey.							BEN		
<i>Perityle californica</i> Benth.						GUА	BEN		
<i>Perityle emoryi</i> Torrey						GUА	BEN		
<i>Phlomis incana</i> A. Gray						GUА	CED		
<i>Phlomis odorata</i> (L.) Cass.	var. <i>odorata</i>					GUА	CED		
<i>Porophyllum gracile</i> Benth.							CED		
<i>Pseudognaphalium beneolens</i> Davidson									
<i>Pseudognaphalium biocellatum</i> Anderberg									
<i>Pseudognaphalium hirsutulum</i> (L.) Hilliard & B. L. Burtt									
<i>Pseudognaphalium microcephalum</i> Nutt.		COR							
<i>Pseudognaphalium ramosissimum</i> Nutt.		COR							
<i>Pseudognaphalium sp. nov.³³</i>									
<i>Pseudognaphalium stramineum</i> (Kunth) Anderberg									
<i>Rafinesquia californica</i> Nutt.									
<i>Senecio aphanactis</i> Greene									
<i>Senecio cedrosensis</i> Greene									

²⁶Synonym: *Carex gigantea* (Kellogg) H.M. Hall²⁷Synonym: *Carex nuttallina* (Nutt.) Hook. f.²⁸Synonym: *Filago arizonica* A. Gray²⁹Synonym: *Filago californica* Nutt.³⁰Synonym: *Chamomilla occidentalis* (Greene) Rydb.³¹New record; herbarium specimen @ RSA, SD³²New record; herbarium specimen @ RSA, SD³³New record; herbarium specimen @ RSA, SD (description pending)

APPENDIX 1. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUÀ	BEN	CED	NAT
<i>Senecio lyoni</i> A. Gray				MAR		GUÀ	BEN		
<i>Senecio palmeri</i> A. Gray				COR	TOS	GUÀ		CED?	
<i>Senecio sylvaticus</i> L.*				COR	TOS	GUÀ		CED	NAT
<i>Sonchus oleraceus</i> L.*				COR	MAR	GUÀ	BEN	CED	NAT
<i>Stebbinsoseris heterocarpa</i> (Nutt.) Chambers						GUÀ			
<i>Stephanomeria diegensis</i> Gottlieb				COR	TOS				
<i>Stephanomeria guadalupensis</i> Brandegee						GUÀ			
<i>Trixis californica</i> Kell.	var. <i>californica</i>			COR	TOS	MAR	GUÀ	BEN&	CED
<i>Uropappus hirsutissimus</i> (DC.) Nutt.						TOS		CED	
<i>Verbesina dissita</i> A. Gray								CED	
<i>Verbesina hastata</i> Kell.								CED	
<i>Viguiera lanata</i> (Kell.) A. Gray								NAT	
<i>Xylorhiza diffusa</i> (Benth.) Nesom									
<hr/>									
Boraginaceae									
<i>Amsinckia inepta</i> J.F. Macbr.		MAR				GUÀ		CED	
<i>Amsinckia menziesii</i> (Lehm.) Nels. & Macbr.		TOS						CED	
<i>Cryptantha barbigeroides</i>	var. <i>barbigeroides</i> (A. Gray) Greene								
<i>Cryptantha cleveelandii</i> Greene		TOS				GUÀ			
<i>Cryptantha foliosa</i> Reiche									
<i>Cryptantha grajai</i> (N. & R.) Macbr.	var. <i>cryptochaeta</i> I.M. Johnston	COR	TOS	MAR				CED	
<i>Cryptantha intermedia</i> (A. Gray) Greene									
<i>Cryptantha maritima</i> (Greene)	var. <i>cedrosensis</i> (Greene) Jtn.	COR							
<i>Cryptantha maritima</i> (Greene)	var. <i>maritima</i> Greene								
<i>Cryptantha patula</i> Greene									
<i>Cryptantha penduliflora</i> Benth.	var. <i>penduliflora</i>	COR	TOS						
<i>Eucryptia chrysanthemifolia</i> (Benth.) Greene	var. <i>bipinnatifida</i> (Torr.) Constance								
<i>Eucryptia chrysanthemifolia</i> (Benth.) Greene	var. <i>chrysanthemifolia</i>								
<i>Harpagonella palmeri</i> A. Gray									
<i>Heliotropium curassavicum</i> L.									
<i>Johnstonella angelica</i> (I.M. Johnston) Hasenstab & M.C. Simpson ³⁴	spp. <i>ferocula</i> I.M. Johnston			MAR				CED	
<i>Pectocarya linearis</i> DC.								CED?	
<i>Pectocarya recurvata</i> I.M. Johnston								CED	
<i>Phacelia cedrosensis</i> Rose								CED	
<i>Phacelia cicutaria</i> Greene	var. <i>hispida</i> (A. Gray) J. Howell		TOS					NAT	
<i>Phacelia crenulata</i> Torr.									
<i>Phacelia diffusa</i> Greene									

34Synonym: *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	CED	NAT
<i>Phacelia hirtuosa</i> A. Gray									
<i>Phacelia ixodes</i> Kell.									
<i>Phacelia parryi</i> Torr.									
<i>Phacelia phyllomanica</i> A. Gray									
<i>Pholistoma auritum</i> (Lindl.) Lija									
<i>Pholistoma racemosum</i> (Nutt.) Constance									
<i>Plagiothecium acanthocarpus</i> (Piper)									
I.M. Johnston.									
<i>Plagiothecium collinum</i> (Philibert) I.M. Johnston.									
<i>Plagiothecium collinum</i> (Philibert) I.M. Johnston.	var. <i>californicus</i>								
	var. <i>gracilis</i> Jtn.								
Brassicaceae									
<i>Athyranthus pusillus</i> (Hook.) Greene									
<i>Brassica nigra</i> (L.) W.D.J. Koch*									
<i>Brassica rapa</i> L.*									
<i>Brassica tournefortii</i> Gouan*									
<i>Cakile maritima</i> Scop.*									
<i>Capsella bursa-pastoris</i> (L.) Medik.*									
<i>Caulanthus heterophyllus</i> Payson	var. <i>heterophyllus</i>								
<i>Descurainia lasiophylla</i> (Hook. & Arn.) Payson ³⁶	var. <i>brachycarpa</i> (Richardson) Detling								
<i>Descurainia pinnata</i> (Walt.) Britt.	ssp. <i>glabra</i> (Woot. & Standl.) Detl.								
<i>Descurainia pinnata</i> (Cockerell) Detling	ssp. <i>halictorum</i> (Cockerell) Detling								
<i>Descurainia pinnata</i> (Cockerell) Detling	ssp. <i>menziesii</i> (DC.) Detling								
<i>Draaba cuneifolia</i> S. Watson	var. <i>integerrifolia</i>								
<i>Eruca vesicaria</i> (L.) Cav. ³⁷	ssp. <i>sativa</i>								
<i>Erysimum moranii</i> Rollins									
<i>Hornungia procumbens</i> (L.) Hayek ^{38*}	var. <i>latifolium</i>								
<i>Lepidium lasiocarpum</i> Nutt.									
<i>Lepidium nitidum</i> Torrey & A. Gray									
<i>Lepidium oblongum</i> Small	var. <i>insulare</i> C.L.Hitchc.								
<i>Raphanus sativus</i> L.*									
<i>Sibara angelorum</i> (S. Watson) Greene									
<i>Sisymbrium irio</i> L.*									
<i>Sisymbrium orientale</i> L.*									
<i>Thlaspiocarpus erectus</i> S. Watson									
<i>Thlaspiocarpus laciniatus</i> Nuttall									

³⁵New record; herbarium specimen @ RSA, SD³⁶Synonym: *Galenia losiophylla* (Hook. & Arn.) Greene³⁷New record; herbarium specimen @ SD (John Brown, s.n., April 14, 1983)³⁸Synonym: *Hutchinsia procumbens* (L.) Desv.

APPENDIX 1. Continued

Family/species	spp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
Cactaceae									
<i>Bergerocactus emoryi</i> (Engelm.) Br. & R.									
<i>Cochemia pondii</i> Walton									
<i>Cylindropuntia aculeata</i> (F.A.C. Weber) F.M. Knuth	var. <i>aculeata</i>								
<i>Cylindropuntia cholla</i> (F.A.C. Weber) F.M. Knuth									
<i>Cylindropuntia prolifera</i> (Engelm.) F.M. Knuth									
<i>Cylindropuntia</i> sp. nov. ³⁹									
<i>Echinocereus maritimus</i> (M.E. Jones) K. Schum.	var. <i>maritimus</i>								
<i>Ferocactus chrysacanthus</i> (Orcutt) Britt. & Rose									
<i>Ferocactus fordii</i> (Orcutt) Britt. & Rose	var. <i>grandiflorus</i> G.E. Linds.								
<i>Lophocereus schottii</i> (Engelm.) Br. & R.	var. <i>schottii</i>								
<i>Mammillaria blosfeldiana</i> Boedeker	var. <i>shuriana</i> Gates								
<i>Mammillaria dioica</i> M.K. Brandegee									
<i>Mammillaria goodridgei</i> Scheer	var. <i>rectispina</i> E.Y. Dawson								
<i>Mammillaria goodridgei</i> Scheer	var. <i>goodridgei</i>								
<i>Mammillaria hutchisoniana</i> (Gates) Boed.									
<i>Mammillaria lourteigiae</i> G.E. Linds									
<i>Mammillaria neopahrneri</i> R.T. Craig									
<i>Myrtillocactus cochlidio</i> (Orcutt) Britt. & Rose									
<i>Opuntia ficus-indica</i> (L.) Miller									
<i>Opuntia littoralis</i> (Engelm.) Cockerell									
<i>Opuntia oricola</i> Philbrick									
<i>Pachycereus pringlei</i> (S. Watson) Britton & Rose									
<i>Stenocereus gummosus</i> (Engelm.) A.C. Gibson & K.E. Horak									
Cannabaceae									
<i>Cithospermum diffusa</i> A. Gray	var. <i>guadalupensis</i> (Morin) Lammers								
<i>Triodanis biflora</i> (Ruiz & Pav.) Greene									
Cannabaceae									
<i>Celtis laevigata</i> ⁴⁴									
Capparaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶									
Capparaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>angustata</i> (Parish) Illic								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
Cannabaceae									
<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶									
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<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>angustata</i> (Parish) Illic								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>angustata</i> (Parish) Illic								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶									
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Celtis laevigata</i> ⁴⁴									
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>angustata</i> (Parish) Illic								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
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<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
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<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶									
Cannabaceae									
<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>angustata</i> (Parish) Illic								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
Cannabaceae									
<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶									
Cannabaceae									
<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶									
Cannabaceae									
<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>angustata</i> (Parish) Illic								
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁶	var. <i>globosa</i> (Coville) Illic								
Cannabaceae									
<i>Celtis laevigata</i> ⁴⁴									
Cannabaceae									
<i>Peritoma arborea</i> (Nutt.) Illic ⁴⁵	var. <i>reticulata</i> (Torr.) Benson					</td			

APPENDIX I. Continued

Family/species	ssp/var and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
Caprifoliaceae									
<i>Lonicera hispidula</i> Dong. ⁴⁷						GUA			
<i>Lonicera subspicata</i> Hook. & Arn.	var. <i>denudata</i> Rehder						CED		
<i>Achyrochloa cooperi</i> Torrey & A. Gray							CED		
<i>Cerastium glomeratum</i> Thunb.*						GUA			
<i>Drymaria holosteoides</i> Benth.	var. <i>holosteoides</i>					GUA			
<i>Hernaria hirsuta</i> L.	var. <i>cinerrea</i> (DC.) Coutinho					GUA			
<i>Polycarpon depressum</i> Nutt.		TOS	TOS			GUA			
<i>Silene antirrhina</i> L.						GUA			
<i>Silene gallica</i> L.*						GUA			
<i>Silene laciniata</i> Cav. ⁴⁸	ssp. <i>laciniata</i>					GUA			
<i>Spergularia boconii</i> (Scheele) Merino*						GUA			
<i>Spergularia macrotheca</i>						GUA			
(Homem. ex Cham. & Schltdl.) Heynh. ⁴⁹	var. <i>leucantha</i> (Greene) B.L. Rob.					GUA			
<i>Spergularia macrotheca</i>	var. <i>talithum</i> (Greene) Jeps.					MAR ⁵⁰			
(Homem. ex Cham. & Schltdl.) Heynh.						GUA			
<i>Spergularia marina</i> J. & K. Presl							CED?		
<i>Spergularia villosa</i> (Pers.) Camb.*							CED		
<i>Stellaria media</i> (L.) Vill.*							CED?		
<i>Stellaria pallida</i> (Dumont) Crép*							CED		
<i>Stellaria nitens</i> Nutt.							CED		
<i>Allenrolfea occidentalis</i> (S. Watson) Kunze							CED		
Chenopodiaceae									
<i>Aphanisma blitoides</i> Nutt.		COR	TOS	MAR		GUA	BEN	CED	NAT
<i>Arthrocneumon subterninale</i> (Parish) Standl. ⁵¹				MAR		GUA	BEN	CED?	NAT
<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.	ssp. <i>canescens</i>						BEN	CED?	NAT?
<i>Atriplex coulteri</i> (Moq.) D. Dietr.							CED	NAT	
<i>Atriplex julacea</i> S. Watson							CED	NAT	
<i>Atriplex leucophylla</i> (Moq. in DC.) D. Dietr.							CED	NAT	
<i>Atriplex pacifica</i> Nels.							CED		
<i>Atriplex semibaccata</i> R. Br.*									
<i>Atriplex sericeana</i> A. Nelson ex Abrams	var. <i>davidsonii</i> (Standl.) Munz	COR	TOS	MAR ⁵² aff.		GUA			
								NAT × aff.	

⁴⁷Synonymy: *Lonicera hispidula* (Lindl.) Douglas ex Torr. & A. Gray var. *vacillans* A. Gray

⁴⁸Synonymy: *Silene laciniata* Cav. ssp. *major* C.L. Hitch. & Maguire

⁴⁹New record; herbanium specimen @ RSA, SD

⁵⁰New record; herbanium specimen @ RSA, SBIG

⁵¹Synonymy: *Salicornia subterninalis* Parish

⁵²New record; herbanium specimen @ RSA, potentially new species

APPENDIX 1. Continued

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

⁵³New record; pers. comm. Jon Rehman⁵⁴Synonym: *Sidonia virginica* L.⁵⁵New record; herbarium specimen @ SD⁵⁶New record; pers. comm. Jon Rehman⁵⁷New record; herbarium specimen @ RSA, SD Moran 20315

APPENDIX 1. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUА	BEN	CED	NAT
<i>Dudleya virens</i> (Rose) Moran	ssp. <i>extima</i> Moran	COR	TOS			GUА			
<i>Dudleya × semiteres</i> (Rose) Moran						GUА			
Crossosomataceae									
<i>Crossosoma californicum</i> Nutt.									
Cucurbitaceae									
<i>Echinophyllum minimus</i> (Kell.) S. Watson	var. <i>minimus</i>	COR	TOS	MAR		GUА		CED	NAT
<i>Marsh mudiapensis</i> Greene									
<i>Marsh macrocarpus</i> (Greene) Greene								CED	
Ericaceae									
<i>Arctostaphylos</i> sp.						GUА		CED	
<i>Xylococcus bicolor</i> Nutt.								CED	
Euphorbiaceae								CED	
<i>Acalypha californica</i> Benth.								CED	
<i>Andraea ciliata-glandulosa</i> (Millsp.) Crozat								CED?	
<i>Euphorbia albonarginata</i> Torr. & A. Gray*								CED	NAT
<i>Euphorbia bartolomaei</i> Greene								CED	
<i>Euphorbia crenulata</i> Engelm.								CED	
<i>Euphorbia misera</i> Benth.								CED	
<i>Euphorbia polycarpa</i> Benth.								CED	
<i>Euphorbia pondii</i> Millsp. ⁵⁸						GUА		CED	
Fabaceae									
<i>Acmispon argophyllum</i> (A. Gray) Brouillet ⁵⁹	ssp. <i>argenteus</i> (Dunkle)					GUА		CED	
<i>Acmispon flexuosus</i> (Greene) Brouillet ⁶⁰									
<i>Acmispon glaber</i> (Vogel) Brouillet ⁶¹									
<i>Acmispon grandiflorus</i> (Benth.) Brouillet ⁶²	var. <i>grandiflorus</i>					GUА		CED	NAT
<i>Acmispon maritimus</i> (Nutt.) D.D. Sokoloff ⁶³	ssp. <i>brevifolius</i> (Ottey) Brouillet							CED	
<i>Acmispon nudatus</i> (Greene) Brouillet ⁶⁴								CED	
<i>Acmispon rigidus</i> (Benth.) Brouillet ⁶⁵								CED	
<i>Astragalus strigosus</i> (Nutt.) Brouillet ⁶⁶								CED	
<i>Astragalus fastidius</i> (Kell.) M.E. Jones								CED	
<i>Astragalus insularis</i> Kell.	var. <i>insularis</i>							CED	

⁵⁸Synonym: *Chamaesyce pondii* (Millsp.) Millsp.⁵⁹Synonym & per Jon Rehman may be recognized as: *Lotus argophyllus* (A. Gray) Greene ssp. *ornithopodus* (Greene) PH. Raven⁶⁰Synonym: *Lotus edwardsensis* Greene⁶¹Synonym: *Lotus scoparius* (Torr. & A. Gray) Ottey⁶²Synonym: *Lotus grandiflora* (Benth.) Greene⁶³Synonym: *Lotus salinarius* Greene ssp. *brevifolius* Ottey⁶⁴Synonym: *Lotus nudatus* (Greene) Greene⁶⁵Synonym: *Lotus rigidus* (Benth.) Greene⁶⁶Synonym: *Lotus strictus* (Nutt.) Greene

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUА	BEN	CED	NAT
<i>Astragalus magdalena</i> Greene	var. <i>magdalena</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) Barnaby	COR	TOS					CED?	
<i>Dalea mollis</i> Benth.									NAT
<i>Ebenopsis confinis</i> (Stand.) Britton & Rose ⁶⁷							BEN?	CED	
<i>Errazurizia benthamii</i> (Brandegee)							CED		
I.M. Johnst.									
<i>Lupinus concinnus</i> Agardh.	ssp. <i>concinnus</i>								
<i>Lupinus gaudalupeensis</i> Greene									
<i>Lupinus niveus</i> S. Watson									
<i>Lupinus sparsiflorus</i> Benth.									
<i>Lupinus succulentus</i> Dougl.									
<i>Lupinus truncatus</i> Hook. & Arn.									
<i>Medicago polymorpha</i> L.*									
<i>Melilotus indicus</i> (L.) All.*									
<i>Phaseolus filiformis</i> Benth.									
<i>Syrrhatium acutissimum</i> (Vasey & Rose) Brand ⁶⁸									
<i>Trifolium depauperatum</i> Desv.	var. <i>truncatum</i> (Greene) Martin ex Isely								
<i>Trifolium gracilentum</i> Torr. & A. Gray		COR ⁷⁰	TOS	MAR					
<i>Trifolium microcephalum</i> Pursh									
<i>Trifolium palmeri</i> S. Watson									
<i>Trifolium willdenovii</i> Sprengel									
<i>Vicia hasssei</i> S. Watson									
<i>Vicia ludoviciana</i> Nutt.	ssp. <i>ludoviciana</i>								
<i>Vicia lutea</i> (L.) Wight & Arn. ⁷¹ *	var. <i>minuta</i> (M.E. Jones) Seigler & Ebinger							CED	CED
<i>Quercus cedrosensis</i> C.H. Müll.									
<i>Quercus tomentella</i> Engelm.									
Frankeniaceae									
<i>Frankenia palmeri</i> S. Watson									
<i>Frankenia salina</i> (Molina) I.M. Johnst.									
Garryaceae									
<i>Garrya veatchii</i> Kell.									
Gentianaceae								CED	
<i>Zeltnera venusta</i> (A. Gray) G. Mans. ⁷²									

⁶⁷Synonym: *Phacellobium confine* Standl.⁶⁸Synonym: *Lotus tescamii* (Vasey & Rose) Greene⁶⁹New record; pers. comm. Jon Rehman⁷⁰New record; herbarium specimen @ SD⁷¹New record; pers. comm. Jon Rehman, photo voucher @ SD; synonym: *Acacia farinosa* var. *minuta*⁷²Synonym: *Centaurium venustum* (A. Gray) B.L. Rob.

APPENDIX 1. Continued

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

⁷³Synonym: *Salvia palmeri* (A. Gray) Brig.⁷⁴Synonym: *Lavatera lindsgii* Moran⁷⁵Synonym: *Lavatera occidentalis* S. Watson⁷⁶Synonym: *Lavatera canosa* S. Watson⁷⁷Synonym: *Lavatera assurgentifolia* Kellogg

APPENDIX I. Continued

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

⁷⁸Synonym: *Calandrinia maritima* Nutt.⁷⁹New record; herbarium specimen @ RSA, SD⁸⁰Synonym: *Camissonia cheiranthifolia* (Hornem. ex Spreng.) Rainey, ssp. *sturriticosa* (S. Watson) P.H. Raven⁸¹Synonym: *Camissonia guadalupensis* S. Watson P.H. Raven ssp. *guadalupensis*⁸²Synonym: *Camissonia robusta* P.H. Raven⁸³Synonym: *Camissonia cardiophylla* (Torr.) P.H. Raven ssp. *cedrosensis* (Greene) P.H. Raven⁸⁴Synonym: *Camissonia californica* (Nutt. ex Torr. & A. Gray) P.H. Raven⁸⁵Synonym: *Camissonia crassifolia* (Greene) P.H. Raven

APPENDIX 1. Continued

Synonymy: *Stylomecon heterophylla* (Benth.) G. Taylor
Synonym: *Minuartia aurantiaca* Curtis var. *aurantiaca*
Synonym: *Mimulus luteolus* A. Gray; *Diplotaxis luteoflora* (A. Gray) G. L. Nesom (Doudas ex Benth.) Stroch.

89 Synonym: *Mimulus cardinalis* Douglas ex Benth.
90 Synonym: *Galvezia imcea* (Benth.) Benth.

91Synonym: *Galvezia juncea* (Burm.) Benth. 92
92Synonym: *Galvezia speciosa* (Nutt.) A. Gray 93

92 Synonyms: *Linaria texana* Schlecht and *Linaria canadensis* (L.) Dum. Cours.
93 Synonym: *Linanthus pygmaeus* (Brand) J.T. Howell spp. *pygmaeus*

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUA	BEN	CED	NAT
<i>Linanthus uncioides</i> (Brandegee) Moran								CED?	
<i>Linanthus reachii</i> (C. Parry) J.M. Porter & L.A. Johnson	<i>Microsteris gracilis</i> (Hook.) Greene	COR	TOS					CED	
Polygonaceae								CED?	
<i>Eriogonum fasciculatum</i> Benth.								CED	
<i>Eriogonum grande</i> Greene								CED	
<i>Eriogonum intricatum</i> Benth.	var. <i>testudinum</i> Reveal							CED	
<i>Eriogonum molle</i> Greene								CED	
<i>Eriogonum pondii</i> Greene Torrey ex Benth.								CED	NAT
<i>Eriogonum zapatoense</i> Moran									
<i>Eriogonum Wrightii</i>	var. <i>taxifolium</i> (Greene) Parish							CED	
<i>Harfordia macroptera</i> (Benth.) Greene & Parry	var. <i>fruticosa</i> (Greene) Reveal							CED	
<i>Lastarriaea coriacea</i> (Goodman) Hoover ⁹⁴								CED?	
Portulacaceae								CED	
<i>Pterostegia drymarioides</i> F. & M.		COR	TOS	MAR		GUA			
<i>Portulaca oleracea</i> L.*									NAT
Primulaceae									
<i>Dodecatheon clevelandii</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.			COR	TOS				CED?	
<i>Delphinium parryi</i> A. Gray									
<i>Miosurus minimus</i> L.						GUA			
Ranunculus hebecarpus	H. & A.					GUA		CED?	
Resedaceae									
<i>Oligomeria linifolia</i> (Vahl) Macbr.		COR	TOS			GUA		CED	NAT
Rhamnaceae									
<i>Ceanothus arboreus</i> Greene						GUA			
<i>Ceanothus crassifolius</i> Torr.						GUA			
<i>Ceanothus cuneatus</i> (Hook.) Nutt.						GUA			
<i>Ceanothus perplexans</i> Trel. ⁹⁵						GUA			
<i>Ceanothus verrucosus</i> Nutt.								CED?	
<i>Rhamnus insula</i> Kellogg								CED?	
<i>Rhamnus pifolia</i> Greene								CED?	
Ziziphus parryi	Torr.							CED?	
Rosaceae									
<i>Adenostoma fasciculatum</i> Hook. & Arn.	var. <i>obtusifolium</i> S. Wats.								

⁹⁴Synonym: *Chorizanthe coriacea* Goodman
⁹⁵New record; herbarium specimen @ RSA, SD, SBBG; synonym: *Ceanothus greggii* A. Gray var. *perplexans* (Trel.) Jeps.

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GUА	BEN	CED	NAT
<i>Aphanes occidentalis</i> Rydberg						GUА			
<i>Heteromeles arbutifolia</i> (Lindl.) M. Roem.		COR	TOS			GUА			
Rubiaceae						GUА			
<i>Gaulium angulosum</i> A. Gray		COR	COR ⁹⁶			GUА			
<i>Gaulium angustifolium</i> Nutt.	ssp. <i>angustifolium</i>	COR	MAR			GUА			
<i>Gaulium aparine</i> L.		COR				GUА			
<i>Gaulium coronadoense</i> Dempster						GUА			
<i>Gaulium stellatum</i> Kellogg						GUА			
Rutaceae						GUА			
<i>Ruta chalepensis</i> L.						GUА			
Sapindaceae		COR				GUА			
<i>Aesculus parryi</i> A. Gray						GUА			
Saxifragaceae						GUА			
<i>Jepsonia malvifolia</i> (Greene) Small		COR				GUА			
Saxifragaceae						GUА			
<i>Jepsonia parryi</i> (Torr.) Small.		COR				GUА			
Scrophulariaceae						GUА			
<i>Microporus lactum</i> Forst. f. <i>Nigao</i> .*		COR				GUА			
Simmondsiaceae						GUА			
<i>Simmondsia chinensis</i> (Link) C. Schneider						GUА			
Solanaceae						GUА			
<i>Datura discolor</i> Bernh.						GUА			
<i>Datura wrightii</i> Regel		MAR				GUА			
<i>Lycium andersonii</i> A. Gray		MAR				GUА			
<i>Lycium brevipes</i> Benth.	var. <i>brevipes</i>	TOS	MAR	JER		GUА			
<i>Lycium californicum</i> Nutt.		COR	TOS	MAR		GUА			
<i>Lycium esvertum</i> A. Gray						GUА			
<i>Lycium fremontii</i> A. Gray						GUА			
<i>Lycopersicon esculentum</i> L.*		COR	TOS			GUА			
<i>Nicotiana attenuata</i> Torr.		COR	TOS	MAR		GUА			
<i>Nicotiana clevelandii</i> A. Gray						GUА			
<i>Nicotiana glauca</i> Grati.*						GUА			
<i>Physalis crassifolia</i> Benth.						GUА			
<i>Solanum douglasii</i> Miller.*		TOS	MAR			GUА			
<i>Solanum hindsianum</i> Benth.						GUА			
<i>Solanum nodiflorum</i> Jacq.*		COR				GUА			

*New record; herbarium specimen @ SD.

APPENDIX I. Continued

Family/species	ssp./var. and infraname	COR	TOS	MAR	JER	GU A	BEN	CED	NAT
		TOS	MAR						
<i>Solanum palmeri</i> Vasey & Rose									
<i>Solanum wallacei</i> (A. Gray) Parish	ssp. <i>clokeyi</i>								
Tamaricaceae									
<i>Tamaria ranosissima</i> Ledeb.*								CED	
Urticaceae									
<i>Hesperocnide tenella</i> Torrey									
<i>Parietaria hespera</i> B.D. Hinton									
<i>Urtica urens</i> L.*									
Verbenaceae									
<i>Glandularia lilacina</i> (Greene) Ulmer. ⁹⁷								CED	
Viscaceae									
<i>Phoradendron densum</i> Torr. ex Thel.									
Zygophyllaceae									
<i>Fagonia laevis</i> Standl.									
<i>Viscaia geniculata</i> (Kellogg) Greene	var. <i>geniculata</i>								
NUMBER OF SPECIES		129	145	107	8	232	57	266	79

⁹⁷Synonym: *Verbena lilacina* Green

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? ¹	CAT ²		ROS	CRU			
Dennstaedtiaceae									
<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
Polystichaceae									
<i>Polystichum munitum</i> (Kaulf.) C. Presl					ROS	CRU			
Equisetaceae									
<i>Equisetum hyemale</i> L.	ssp. <i>affine</i> (Engelm.) Calder & Roy L. Taylor				ROS	CRU			
Equisetum laevigatum A. Braun		CAT		ROS	CRU				
Equisetum telmateia Ehrh.	ssp. <i>braunii</i> (J. Milde) Hauke	CAT			CRU				
Polypodiaceae									
<i>Polypondium californicum</i> Kaulf.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Polypondium scouleri</i> Hook. & Grev.									
Pteridaceae									
<i>Adiantum aleuticum</i> (Rupr.) C.A. Paris							CRU		
<i>Adiantum capillus-veneris</i> L.		CLE	NIC	CAT		ROS	CRU	ANA	
<i>Adiantum jordanii</i> Müll. Hal.				CAT		ROS	CRU	ANA	MIG
<i>Aspidotis californica</i> (Hook.) Copel.							CRU		
<i>Cheilanthes clevelandii</i> D.C. Eaton						ROS	CRU		
<i>Cheilanthes cooperiae</i> D.C. Eaton							CRU		
<i>Cheilanthes nevadensis</i> (D.C. Eaton) Domin		CLE	NIC	CAT		ROS	CRU	ANA	
<i>Pellaea andromedifolia</i> (Kaulf.) Féée		CLE?	NIC	CAT		ROS	CRU		
<i>Pellaea mucronata</i> (D.C. Eaton)	var. <i>mucronata</i>			CAT					
D.C. Eaton									
<i>Pentagramma triangularis</i> (Kaulf.) Yatsk.,	ssp. <i>triangularis</i>	CLE	NIC	CAT		ROS	CRU	ANA	MIG
Windham, & E. Wollenw.									
<i>Pentagramma triangularis</i> (Kaulf.) Yatsk.,	ssp. <i>viscosa</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	

¹Pers. com. E. Howe

²S. Ratay collection

³Pers. com. E. Howe

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Woodsiaceae						ROS	CRU	CRU	
<i>Athyrium filix-femina</i> (L.) Roth	var. <i>cyclosum</i> Rupr.						CRU	CRU	
<i>Cystopteris fragilis</i> (L.) Bernh.									
GYMNOSPERMS									
Cupressaceae	<i>Hesperocyparis macrocarpa</i> (Hartw.) Bartel*	CAT		ROS	CRU	CRU	ANA		
Pinaceae	<i>Pinus muricata</i> D. Don			ROS	CRU	CRU			
<i>Pinus pinea</i> L.*	var. <i>muricata</i>				CRU	CRU			
<i>Pinus radiata</i> D. Don*									MIG
<i>Pinus torreyana</i> Parry ex Carrière					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				ROS	CRU			
<i>Allium praecox</i> Brandegee	var. <i>lacunosum</i>	CLE	CAT		ROS	CRU			
Amaryllidaceae	<i>Amarillis belladonna</i> L.*								MIG
<i>Narcissus tazetta</i> L.*						CRU	ANA	ANA	MIG
Araceae	<i>Lemna minor</i> L.								MIG
Zantedeschia aethiopica	(L.) Spreng.*								MIG
Arecaceae	<i>Washingtonia filifera</i> (André) de Bary								
Asparagaceae	<i>Asparagus asparagoides</i> (L.) Druce*								
<i>Asparagus officinalis</i> L.*		NIC	CAT						
Asphodelaceae	<i>Asphodelus fistulosus</i> L.*								
Cyperaceae	<i>Bolboschoenus maritimus</i> (L.) Palla						CRU	CRU	
<i>Carex barbara</i> Dewey	ssp. <i>paludosus</i> (A. Nelson) T. Koyama								MIG
<i>Carex glauca</i> Boott									
<i>Carex gracilior</i> Mack.									
<i>Carex harfordii</i> Mack.									

⁴NY: TS. Ross, 6137, 04 13 1992

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Carex pauciflora</i> L.H. Bailey		CAT			ROS	ROS			MIG
<i>Carex praegracilis</i> W. Boott				ROS			CRU		MIG
<i>Carex senna</i> Boott				ROS			CRU		
<i>Carex subbracteata</i> Mack.									
<i>Carex triquetra</i> Boott		CAT			ROS		CRU		
<i>Carex tunnicola</i> Mack.		CLE		CAT ⁵					
<i>Cyperus eragrostis</i> Lam.		CLE		CAT			CRU		
<i>Cyperus esculentus</i> L.							CRU		
<i>Cyperus involucratus</i> Rottb. [*]							CRU		
<i>Cyperus odoratus</i> L. [*]				CAT ⁶		ROS			
<i>Eleocharis macrostachya</i> Britton		CLE	NIC	CAT		ROS			
<i>Isolepis cernua</i> (Vahl) Roem. & Schult.			NIC	CAT ⁷		ROS			
<i>Schoenoplectus americanus</i> (Pers.) Schinz & R. Keller						ROS			
<i>Schoenoplectus californicus</i> (C.A. Mey.) Soják	var. <i>longispicatus</i> (Britton) S.G. Sm.					ROS	CRU		
<i>Schoenoplectus pungens</i> (Vahl) Palla						ROS	CRU		
Iridaceae									
<i>Sisyrinchium bellum</i> S. Watson		CAT			ROS		CRU		
Juncaceae									
<i>Juncus acutus</i> L.	ssp. <i>leopoldii</i> (Parl.) Snogerup	CAT			ROS		CRU		
<i>Juncus balcanicus</i> Willd.	ssp. <i>aer</i> (Bydb.) Snogerup	CAT	NIC	CAT	ROS		CRU		
<i>Juncus bufonius</i> L.		CLE			ROS		CRU		
<i>Juncus effusus</i> L.					ROS		CRU		
<i>Juncus mexicanus</i> Willd.									
<i>Juncus patens</i> E. Mey.									
<i>Juncus phaeoccephalus</i> Engelm.	var. <i>phaeocephalus</i>								
<i>Juncus textilis</i> Buchenau									
<i>Juncus xiphoides</i> E. Mey.									
<i>Luzula subsessilis</i> (S. Watson) Buchenau ⁸		CAT		CAT		ROS	CRU		
Liliaceae									
<i>Calochortus albus</i> (Benth.) Benth.		CAT				ROS	CRU		
<i>Calochortus catalinae</i> S. Watson		CAT				ROS	CRU		
<i>Calochortus latens</i> Lindl.							CRU		
<i>Calochortus splendens</i> Benth.									
<i>Lilium humboldtii</i> Duth.	ssp. <i>ocellatum</i> (Kellogg) Thorne	CAT			ROS		CRU		

⁵RSA: Mark Hoefs, Steven A. Jumak, Janet Takara, M. Gay, 2384, Jul 14 1995⁶SBIG: M.L. Hoefs, R.F.Thorne, 2458, Jul 26 1995⁷RSA: Mark Hoefs, R.F.Thorne, Janet Takara Jul 26 1995 2482
⁸Synonym: *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? ⁹	CAT	CAT ¹⁰	ROS	ROS	CRU	CRU	
<i>Piperia cooperi</i> (S. Watson) Rydb. <i>Piperia elongata</i> Rydb. <i>Piperia michaelii</i> (Greene) Rydb.									
Poaceae <i>Aegilops cylindrica</i> Host*							CRU		
<i>Agrostis exarata</i> Trin. <i>Agrostis pallens</i> Trin.			CAT	CAT	ROS	ROS	CRU	CRU	
<i>Agrostis stolonifera</i> * L. <i>Amnophila arenaria</i> (L.) Link*		CLE	NIC	CAT					
<i>Andropogon glomeratus</i> (Walter) Britton et al. <i>Aristida adscensionis</i> L.	var. <i>scabriglumis</i> C.S. Campb. var. <i>genitilis</i> (Hennard) Alfred	CLE	CAT	CAT	ROS	ROS	CRU	CRU	
<i>Aristida ternipes</i> Cav. <i>Arundo donax</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	CRU	MIG
<i>Avena barbata</i> Link*		CLE	NIC	CAT	BAR	ROS	CRU	CRU	MIG
<i>Avena sativa</i> L.*		CLE	CAT	CAT	ROS	ROS	CRU	CRU	MIG
<i>Bothriochloa barbinodis</i> (Lag.) Hertzer <i>Brachypodium distachyon</i> (L.) P. Beauv.* <i>Briza minor</i> L.*		CLE? ¹¹	NIC	CAT			CRU		
<i>Bromus arizonicus</i> (Shear) Stebbins <i>Bromus berteroanus</i> Colla ¹²		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus carinatus</i> Hook. & Arn. <i>Bromus maritimus</i> (Piper) Hitchc.	var. <i>carinatus</i>	CLE?	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus catharticus</i> Vahl*		CLE ¹³	NIC	CAT	BAR	ROS	CRU	ANA	MIG
* <i>Bromus diandrus</i> Roth*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus hordeaceus</i> L.* ¹⁴		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus laevipes</i> Shear*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Bromus madritensis</i> L.* <i>Calamagrostis rubescens</i> Buckley							CRU		

⁹Pers. com. E. Howe¹⁰SBBC; S.A. Janak Apr. 30 1998 SCa-568¹¹Pers. com. E. Howe¹²Synonym. *Bromus trinii* Desv. Per Jepson Interchange: molecular evidence needed to resolve question of nativity¹³SBBC; T.S. Ross, E. Kellogg Apr. 11 1992 6122¹⁴Synonym. *Bromus mollis* L.¹⁵UCSB; Dan 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.*									
<i>Cortaderia selliana</i> (Schult. & Schult. f.) Asch. & Graebn.*		CRU							MIG
<i>Crypsis vaginiflora</i> (Forssk.) Opiz*		CLE ¹⁶	CLE ¹⁷	NIC	CAT				
<i>Crypsis alopecuroides</i> (Piller & Mitterp.) Schrad.*	CLE ¹⁹	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Cynodon dactylon</i> (L.) Pers.*	CLE	CLE	CAT	CAT		ROS	CRU		
<i>Dactylis glomerata</i> L.*									
<i>Danthonia californica</i> Bol.									
<i>Deschampsia danthonioides</i> (Trin.) Munro	CLE								
<i>Desmazeria rigidula</i> (L.) Tittin*									
<i>Digitaria sanguinalis</i> (L.) Scop.*									
<i>Disanthelium californicum</i> (Nutt.) Benth.									
<i>Distichlis spicata</i> (L.) Greene									
<i>Distichlis tifoides</i> (Engelm.) H.L.									
Bell & Columbus									
<i>Echinochloa crus-galli</i> (L.) P Beauvo. *	CLE	CAT	CAT	CAT			CRU		
<i>Ehrhartia calycina</i> * Sm.	CLE	CAT	CAT	CAT					
<i>Ehrhartia erecta</i> Lam.*									
<i>Elmus glaucus</i> Buckley	ssp. <i>glaucus</i>								
<i>Elmus repens</i> (L.) Gould*									
<i>Elmus condensatus</i> J. Presl	CLE	NIC	CAT			ROS	CRU	ANA	MIG
<i>Elmus pacificus</i> Gould	NIC	CAT				ROS	CRU	ANA	MIG
<i>Elmus triticoides</i> Buckley	NIC	CAT				ROS	CRU	ANA	MIG
<i>Festuca arundinacea</i> Schreb.*	CLE	NIC	CAT		BAR	ROS	CRU		MIG
<i>Festuca perennis</i> (L.) Columbus & J.P. Sm.*	CLE	NIC	CAT			ROS	CRU		MIG
<i>Festuca tenuifolia</i> (L.) Columbus & J.P. Sm.*	CLE	CAT	CAT			ROS	CRU	ANA	MIG
<i>Festuca bromoides</i> L.*	CLE	NIC	CAT			ROS	CRU	ANA	MIG
<i>Festuca microstachys</i> Nutt.	CLE	NIC	CAT				CRU	ANA	MIG
<i>Festuca myuros</i> L.*	CLE	NIC	CAT				CRU	ANA	MIG
<i>Festuca octoflora</i> Walter	CLE	NIC	CAT				CRU	ANA	MIG
<i>Gastridium phleoides</i> (Nees & Meyen) C.E. Hubb.*	CLE	CAT	CAT				CRU		
<i>Hainardia cylindrica</i> (Willd.) Greuter*	CLE ²³	CAT ²⁴					CRU		MIG

¹⁶CAS: Steven A. Junak 9 Nov 1990 SCI-143¹⁷Pers. com. E. Howe¹⁸RSA: Mark Hoefs, R.F. Thorne, Janet Takara, M. Gay Jul 27 1995 2491¹⁹Pers. com. E. Howe²⁰CAS: Peter H. Raven 22 May 1962 17826²¹UCD: Beecher Champion 08/10/1968 5322²²SSBG: S.A. Junak Jun 13 1998 SCa-743²³SSBG: S.A. Junak May 14 1985 SCI-71²⁴SSBG: S.A. Junak, M. L. Hoefs Jun 4 1997 SCa-421

APPENDIX 2. Continued

Family/species	ssp./var. and infraname Bothmer et al.	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Hordeum brachyantherum</i> Nevskí	ssp. <i>californicum</i> (Covas & Stelbinsk)		NIC	CAT ²⁵		ROS	CRU	ANA	MIG
<i>Hordeum depressum</i> (Scribn. & J.G. Sm.) Rydb.		CLE ²⁶	NIC	CAT ²⁷	BAR	ROS	CRU	ANA	MIG
<i>Hordeum intercedens</i> Nevskí		CLE ²⁸	NIC	CAT		ROS	CRU	ANA	MIG
<i>Hordeum marinum</i> Huds.*	ssp. <i>glossoneanum</i> (Parl.) Thell.	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Hordeum marinum</i> L.*	ssp. <i>glauacum</i> (Steud.) Tzvelev	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Hordeum marinum</i> L.*	ssp. <i>leporinum</i> (Link) Arcang.	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Hordeum vulgare</i> L.*		CLE	NIC	CAT		ROS	CRU	CRU	
<i>Koeleria gerardii</i> (Vill.) Shrimmers*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Lamarcia 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 ²⁹	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Muhlenbergia microsterna</i> (DC.) Kunth		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Parapholis incurva</i> (L.) C.E. Hubb.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Paspalum dilatatum</i> Poir.*		CLE	NIC	CAT		ROS	CRU	CRU	
<i>Paspalum distichum</i> L.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Pennisetum clandestinum</i> Chiov.*		CLE	NIC	CAT ³⁰		ROS	CRU	ANA	MIG
<i>Pennisetum setaceum</i> (Forsk.) Chiov.*		CLE	NIC	CAT		CRU	CRU	ANA	
<i>Phalaris aquatica</i> L.*		CLE	NIC	CAT		CRU	CRU	ANA	
<i>Phalaris canariensis</i> L.*		CLE	NIC	CAT		CRU	CRU	CRU	
<i>Phalaris caroliniana</i> Walter*		CLE	NIC	CAT		ROS	ROS	CRU	
<i>Phalaris lemmonii</i> Vasey		CLE	NIC	CAT ³¹		ROS	ROS	CRU	
<i>Phalaris minor</i> Retz.*		CLE	NIC	CAT		ROS	ROS	CRU	
<i>Phalaris paradoxa</i> * L.		CLE	NIC	CAT		ROS	ROS	CRU	
<i>Poa annua</i> L.*		CLE	NIC	CAT		ROS	ROS	CRU	
<i>Poa palustris</i> L.*		CLE	NIC	CAT		ROS	ROS	CRU	
<i>Poa howellii</i> Vasey & Scribn.		CLE	NIC	CAT		ROS	ROS	CRU	
<i>Poa douglasii</i> Nees		CLE	NIC	CAT		ROS	ROS	CRU	
<i>Poa secunda</i> J. Presl	ssp. <i>secunda</i>	CLE ³²	NIC	CAT ³³		ROS	ROS	CRU	MIG
<i>Polygonum viridis</i> (Gouan) Breistr.*		CLE	NIC	CAT		ROS	ROS	CRU	MIG
<i>Polygonum interruptus</i> Kunth*		CLE	NIC	CAT		ROS	ROS	CRU	MIG

²⁵SBBG; L.W. Nuttall May 12 1920 190²⁶POW-PA, Munz Apr 8 1923 61613²⁷SBBG; S.A. Janak May 3 2001 SCa-1464²⁸SBBG; PH, Raven May 10 1962 17738²⁹CAS; E.R. Blakley 7 Dec. 1963 6327³⁰S. Ratay collection³¹SBBG; S.A. Janak, M.L. Hoefs Jun 5 1997 SCa-427³²UC; Peter H. Raven Apr 12 1962 17332³³UC; FR, Fosberg Mar 20 1931 S4310

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Polygonum monspeliacum</i> (L.) Desf.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Schismus arabis</i> Nees*		CLE ³⁴	NIC	CAT ³⁵	BAR	ROS	CRU	ANA	MIG
<i>Schismus barbatus</i> (L.) Thell.*			NIC	CAT ³⁵	BAR	ROS	CRU	ANA	MIG
<i>Stenotaphrum secundatum</i> (Walter) Kunze*			NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Stipa diegensis</i> Swallen			NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Stipa cernua</i> Stebbins & Love		CLE	NIC	CAT	BAR	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 ³⁶	BAR	ROS	CRU	ANA	MIG
<i>Triticum aestivum</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Potamogetonaceae									
<i>Potamogeton crispus</i> L.*		CLE ^{?37}	CAT	CAT	ROS	ROS	CRU	CRU	
<i>Stuckenia pectinata</i> (L.) Börner			CLE	NIC	CAT	ROS	CRU	CRU	
Ruppiaceae									
<i>Ruppia maritima</i> L.									
Themidaceae									
<i>Bloomeria crocea</i> (Torr.) Coville	var. <i>crocea</i>								
<i>Brodiaea illoensis</i> Eastw.									
<i>Brodiaea kirkensis</i> T.E. Niehaus									
<i>Dichelostemma capitatum</i> (Benth.) Alph. Wood		CLE	NIC	CAT	BAR	ROS	CRU	CRU	MIG
<i>Triteleia clementina</i> Hoover		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Typhaceae									
<i>Typha angustifolia</i> L. ³⁸ ?		CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Typha domingensis</i> Pers.		CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Typha latifolia</i> L.									
Zannichelliaceae									
<i>Zannichellia palustris</i> L.									
Zosteraceae									
<i>Phyllospadix scouleri</i> Hook.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Phyllospadix torreyi</i> S. Watson		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Zostera marina</i> L.		CLE ^{?41}	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Zostera pacifica</i> S. Watson			NIC	CAT ³²	BAR	ROS	CRU	ANA ⁴³	

³⁴RSA: E. Kellogg Jan 12 1892 s.n.

³⁵SBBG: S.A. Janak Mar 22 1898 SCa-512

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

³⁷Pers. com. E. Howe

³⁸UC: 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					
EUDICOTS									
Aldoxaceae	<i>Sanbiucus nigra</i> L.	ssp. <i>caerulea</i> (Raf.) Bollii	CLE	CAT		ROS	CRU		
Aizoaceae	<i>Carpobrotus chilensis</i> (Molina) N.E. Br.*	CLE	NIC	CAT		ROS	CRU	ANA	MIG
	<i>Carpobrotus edulis</i> * (L.) N.E. Br.	CLE ⁴⁴	NIC	CAT ⁴⁵		ROS	CRU	ANA	
	<i>Delosperma litorale</i> * (Kenist) L. Bolus		NIC						
	<i>Malephora crocea</i> * (Jacq.) Schwantes	CLE ⁴⁶	NIC	CAT		ROS	CRU	ANA	MIG
	<i>Mesembryanthemum crystallinum</i> L.*	CLE	NIC	CAT		ROS	CRU	ANA	MIG
	<i>Mesembryanthemum nodiflorum</i> L.*	CLE	NIC	CAT		ROS	CRU	ANA	
	<i>Sesuvium verrucosum</i> Raf.	CLE	NIC						
Tetragonaceae	<i>Tetragonia tetragonoides</i> (Pall.) Kunze *				ROS	CRU	CRU	ANA	MIG
Amaranthaceae	<i>Amaranthus albus</i> L.*		CAT		ROS	ROS	CRU	CRU	ANA
	<i>Amaranthus blitoides</i> S. Watson			CAT		ROS	CRU	CRU	
	<i>Amaranthus deflexus</i> L.*						CRU	CRU	ANA
	<i>Amaranthus powellii</i> S. Watson	CLE	CAT						
	<i>Malosma laurina</i> (Nutt.) Abrams	CLE	CAT						
	<i>Rhus integrifolia</i> (Nutt.) Rothr.	CLE ⁴⁷	CAT						
	<i>Rhus ovata</i> S. Watson	CLE	NIC	CAT					
	<i>Schinus molle</i> L.*	CLE	NIC	CAT					
	<i>Toxicodendron diversilobum</i> (Torr. & A. Gray) Greene								
Apiaceae	<i>Apiastrum angustifolium</i> Nutt.	CLE	NIC	CAT		ROS	CRU	ANA	MIG
	<i>Apium graveolens</i> L.*	CLE	NIC	CAT		ROS	CRU	CRU	MIG
	<i>Berula erecta</i> (Huds.) Coville	CLE	NIC	CAT		ROS	CRU	CRU	
	<i>Bowlesia incana</i> Ruiz & Pav.								
	<i>Conium maculatum</i> L.*								
	<i>Daucus carota</i> L.*	CLE	NIC	CAT					
	<i>Daucus pusillus</i> Michx.	CLE	NIC	CAT					
	<i>Foeniculum vulgare</i> Mill.*	CLE	NIC	CAT					
	<i>Lomatium nudicaule</i> (Hook. & Arn.) J.M. Coulter & Rose	ROS	CRU						

⁴³RSA: M.B. Dunkle Aug 20 1940 7671⁴⁴RSA: PH. Raven Jul 12 1962 18045⁴⁵POM: ER. Fossberg, 4732, Apr 29 1931⁴⁶BBG: S.A. Junak Aug 26 1997 SCI-936⁴⁷Pers. 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	CAT		ROS	CRU	ANA	MIG
<i>Sanicula arguta</i> J.M. Coulter & Rose		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Sanicula crassicaulis</i> DC.		CLE ⁴⁸	CAT			ROS	CRU		
<i>Sanicula hoffmannii</i> (Munz) R.H. Shan & Constance									
<i>Torilis arvensis</i> (Huds.) Link*									
<i>Torilis nodosa</i> (L.) Gaertn.*		CLE ⁴⁹	NIC	CAT		ROS	CRU	CRU	MIG
<i>Yabea microcarpa</i> (Hook. & Arn.) Koso-Poł.				CAT ⁵⁰			CRU	CRU	
Apocynaceae							CRU	CRU	
<i>Asclepias fascicularis</i> Deenc.									
<i>Funastrum cynanchoides</i> (Deenc.) Schltr.	var. <i>hartwegii</i> (Vail) Krings	CAT	CAT						
<i>Vinca major</i> L.*		CLE	NIC	CAT			CRU	CRU	MIG
Asteraceae		CLE	CAT	CAT			CRU	CRU	
<i>Achillea millefolium</i> L.				CAT ⁵¹			CRU	CRU	
<i>Achyranthes mollis</i> Schauer				CAT			CRU	CRU	
<i>Acourtia microcephala</i> DC.							ROS	ROS	
<i>Agoseris apargoides</i> (Less.) Greene							ROS	ROS	
<i>Agoseris grandiflora</i> (Nutt.) Greene							ROS	ROS	
<i>Agoseris heterophylla</i> (Nutt.) Greene							CRU	CRU	
<i>Amphylopappus pusillus</i> Hook. & Arn.							CRU	CRU	
<i>Ambrosia chamissonis</i> (Less.) Greene							CRU	CRU	
<i>Ambrosia psilostachya</i> DC.							CRU	CRU	
<i>Anthemis cotula</i> L.*							CRU	CRU	
<i>Arctium minus</i> (Hill) Bernh.*							CRU	CRU	
<i>Argemone platyceras</i> (L.) Sch. Bip.*							CRU	CRU	
<i>Artemisia californica</i> Less.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Artemisia douglasiana</i> Besser				CAT			CRU	CRU	
<i>Artemisia dracunculus</i> L.				CAT					
<i>Artemisia neosiotica</i> P.H. Raven		CLE	NIC						
<i>Baccharis glutinosa</i> Pers. ⁵²		CLE	CAT						
<i>Baccharis solicina</i> Torr. & A. Gray		CLE ⁵³	CAT						
<i>Baccharis pilularis</i> DC.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Baccharis plummerae</i> A. Gray	ssp. <i>plummerae</i>						CRU	CRU	

⁴⁸Pers. com. E. Howe⁴⁹POM: PA. Munz Apr 9 1925 6652⁵⁰UCD: Robert F. Thorne 04 28 1966 36224⁵¹CAS: Tim Ross, J. Takara, Stacey Otto 24 April 1993 6946⁵²Synonym: *Baccharis douglasii* DC.⁵³DS, 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.		CLE ⁵⁴	NIC	CAT ⁵⁵		ROS	CRU	ANA	MIG
<i>Baccharis sarothroides</i> A. Gray			CAT						
<i>Baihlopsis laciniata</i> (A. Gray) E. E. Schilling & Panero ⁵⁶ ?		CLE							
<i>Blennosperma nanum</i> (Hook.) S.F. Blake	var. <i>nanum</i>	CLE ⁵⁷	NIC	CAT ⁵⁸		ROS	CRU	ANA	
<i>Brickellia californica</i> (Torr. & A. Gray) A. Gray			CAT						
<i>Calandula officinalis</i> L.*		CLE	NIC	CAT	BAR ⁵⁹	ROS	CRU	ANA	MIG
<i>Carduus pycnocephalus</i> L.*			CAT				CRU		MIG
<i>Centaurea melitensis</i> L.*		NIC							
<i>Centaurea solstitialis</i> L.*									
<i>Centaurea benedicta</i> (L.) L.*		CAT ⁶⁰							
<i>Centromadia pulgens</i> (Hook. & Arn.) Greene									
<i>Centromadia fitchii</i> (A. Gray) Greene									
<i>Chaenactis glabriuscula</i>									
<i>Cichorium intybus</i> L.*									
<i>Cirsium brevistylum</i> Cronquist									
<i>Cirsium occidentale</i> (Nutt.) Jeps.									
<i>Cirsium occidentale</i> (Nutt.) Jeps.	var. <i>californicum</i> (A. Gray) D.J. Keil & C.E. Turner	CAT ⁶¹				ROS	CRU	CRU	
<i>Cirsium occidentale</i> (Nutt.) Jeps.	var. <i>coulteri</i>	CLE ⁶²							
<i>Cirsium occidentale</i> (Nutt.) Jeps.	var. <i>occidentale</i>	CLE ⁶³	NIC	CAT ⁶⁴		ROS	CRU	CRU	MIG
<i>Cirsium achrocentrum</i> A. Gray*	var. <i>tenustum</i> (Greene)					ROS			
<i>Cirsium vulgare</i> (Savi) Ten.*									
<i>Constancea nevinii</i> (A. Gray) B.C. Baldwin		CAT							
<i>Corethrogyne filaginifolia</i> (Hook. & Arn.) Nutt.		CAT							
<i>Cotula australis</i> (Sprang.) Hook. f.*		BAR							
<i>Cotula coronopifolia</i> L.*		CAT							
<i>Cynara cardunculus</i> L.*		CAT ⁶⁵							
		CLE ⁶⁶	NIC	CAT		ROS	CRU	ANA	
		CLE ⁶⁷	NIC	CAT ⁶⁸		ROS	CRU	ANA	MIG

⁵⁴SD: Peter H. Raven May 08, 1962 17629⁵⁵HSC: James Henrickson Jan 1973 8113⁵⁶Pers. com. E. Howe⁵⁷CAS: Steven A. Junak 2 Oct 1996 SC1-703⁵⁸SBG: S.A. Junak, M.L. Hoefs, R.N. Philbrick, SCa-1532, May 18 2001⁵⁹RSA: R.F. Thorne, 37492, Apr 25 1968, suspected incorrect georeferencing⁶⁰RSA: Mark Hoefs, 309, Jun 4 1973⁶¹SD: Robert F. Thorne, P. Everett Jun 23, 1965 35015⁶²SBG: T. Ross, O. Mistretta, M. Hammitt May 20 1991 5325⁶³UCR: Steve Boyd, T.S. Ross, Laurel Arnseth Apr 7 1990 4271⁶⁴UCR: E.R. Blakley Sep 23 1961 4740⁶⁵SBG: S.A. Junak Feb 25 1991 SC1-724⁶⁶Pers. com. E. Howe⁶⁸SBG: 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> (Brandegee) B.G. Baldwin		CLE CLE	NIC CAT	BAR BAR	ROS ROS	CRU ROS	CRU CRU	ANA ANA	
<i>Deinandra fasciculata</i> (DC.) Greene									
<i>Deinandra increscens</i> (D.D. Keck) B.G. Baldwin	ssp. <i>increscens</i>								
<i>Delairea odorata</i> Lem.*									
<i>Encelia californica</i> Nutt.									
<i>Ericameria ericoides</i> (Less.) Jeps.									
<i>Ericameria palmeri</i> (A. Gray) H.M. Hall	var. <i>pachylepis</i> (H.M. Hall) G.L. Nesom	CLE ⁶⁹ CLE ⁷¹	NIC NIC	CAT ⁷⁰ CAT ⁷²	BAR BAR	ROS ROS	CRU CRU	ANA ANA	MIG MIG
<i>Erigeron bonariensis</i> L.*									
<i>Erigeron canadensis</i> L.									
<i>Erigeron foliosus</i> Nutt.	var. <i>foliosus</i>								
<i>Erigeron glaucus</i> Ker Gawl.									
<i>Erigeron sanctum</i> S. Watson									
<i>Eriophyllum confertiflorum</i> (DC.) A. Gray	var. <i>confertiflorum</i>	CLE		CAT ⁷³		ROS ROS	CRU CRU	ANA ANA	MIG MIG
<i>Eriophyllum staechadifolium</i> Lag.									
<i>Eurybia radulina</i> (A. Gray) G.L. Nesom									
<i>Euthamia occidentalis</i> Nutt.									
<i>Ganochaeta usitata</i> (Nutt.) Spach ^{*74}									
<i>Glechonias coronaria</i> (L.) Spach ^{*74}									
<i>Gnaphalium palustre</i> Nutt.									
<i>Grindelia camporum</i> Greene									
<i>Grindelia stricta</i> DC.									
<i>Hazardia cana</i> (A. Gray) Greene	var. <i>platyphylla</i> (Greene) M.A. Lane								
<i>Hazardia dentosa</i> Greene									
<i>Hazardia squarrosa</i> (Hook. & Arn.) Greene	var. <i>grindeloides</i> (DC.) W.D. Clark	CLE ⁷⁶	CAT			ROS ROS	CRU CRU	ANA ANA	MIG ²
<i>Hedypnois cretica</i> (L.) Dum. Cours.*									
<i>Helianthus annuus</i> L.*									
<i>Helminthotheca echioides</i> (L.) Holub*									
<i>Hesperiav sparsiflora</i> (A. Gray) Greene		CLE ⁸⁰	NIC	CAT ⁷⁷ CAT ⁷⁹			CRU CRU	ANA ANA	

69SBG: S.A. Junak, SCI-681, Sep 29 1986

70POM: F.R. Fisherberg, 5364, Jul 10 1931

71SBG: S.A. Junak Oct 28 1997 SCI-981

72SBG: S.A. Junak, K. Kirkland, M. Bushman Oct 21 1998 SCa-813

73RSA: Mark Hoefs, D. Propst Mar 14 1973 119

74Synonym: *Chrysanthemum conoarium* L.

75UC: R.M. Beauchamp and H.A. Wier Jun 29 1978

76CAS: Steven A. Junak 16 May 1996 SCI-470

77DS: A.J. McClatchie Sept. 1893 s.n.

78SBG: H.L. Ferguson, R.M. Beauchamp Sep 15 1979 14

79POM: L.W. Nutall, s.n., May 22 1920

80SBG: S.A. Junak Mar 13 1997 SCI-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		
<i>Hieracium argutum</i> Nutt.		CLE	NIC	CAT		ROS	CRU		
<i>Hypocharis glabra</i> L.*		CLE	NIC	CAT		ROS	CRU		
<i>Hypocharis radicata</i> L.*		CLE	NIC	CAT ⁸¹		ROS	CRU		
<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>decumbens</i> (Greene) G.L. Nesom	CLE	NIC	CAT ⁸²	NIC	CAT ⁸³	ROS	CRU	
<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>menziesii</i>	CLE	NIC	CAT ⁸⁴	CAT	CAT ⁸³	ROS	CRU	
<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>secaloides</i> (Greene) G.L. Nesom	CLE	NIC	CAT		ROS	CRU		
<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom	var. <i>ternoides</i> (Nutt.) G.L. Nesom	CLE	NIC	CAT		ROS	CRU		
<i>Jaumea carnosa</i> (Less.) A. Gray				CAT ⁸⁵		ROS	CRU		
<i>Lactuca saligna</i> L.*		CLE ⁸⁶	NIC	CAT		ROS	CRU		
<i>Laennecia coulteri</i> (A. Gray) G.L. Nesom		CLE ⁸⁷	CLE	CAT	BAR	ROS	CRU		
<i>Lasthenia californica</i> Lindl.		CLE	CAT	BAR	BAR	ROS	CRU		
<i>Lasthenia glaberrata</i> Lindl.	ssp. <i>coulteri</i> (A. Gray) Ornduff			CAT	BAR	ROS	CRU		
<i>Lasthenia gracilis</i> (DC.) Greene		CLE	NIC	CAT		ROS	CRU		
<i>Layia platyglossa</i> (Fisch. & C.A. Mey.) A. Gray		CLE	NIC	CAT		ROS	CRU		
<i>Lepidospartium squamatum</i> (A. Gray) A. Gray		CLE	CAT	BAR		ROS	CRU		
<i>Leptosyne erigantea</i> Kellogg		CLE	CAT	BAR		ROS	CRU		
<i>Logfia arizonica</i> (A. Gray) Holub		CLE	CAT	BAR		ROS	CRU		
<i>Logfia filaginoides</i> (Hook. & Arn.) Morefield		CLE ⁸⁸	CAT	BAR		ROS	CRU		
<i>Logfia gallica</i> (L.) Coss. & Germ.*			CAT	BAR		ROS	CRU		
<i>Madia exigua</i> (Sm.) A. Gray			CAT	BAR		ROS	CRU		
<i>Madia gracilis</i> (Sm.) Applegate			CAT	BAR		ROS	CRU		
<i>Madia sativa</i> Molina*		CLE	CAT	BAR		ROS	CRU		
<i>Malacothrix clevelandii</i> A. Gray				CLE		ROS	CRU		
<i>Malacothrix coulteri</i> Harv. & A. Gray	ssp. <i>crispifolia</i> W.S. Davis					ROS	CRU		
<i>Malacothrix foliosa</i> A. Gray	ssp. <i>foliosa</i>					ROS	CRU		
<i>Malacothrix foliosa</i> A. Gray	ssp. <i>philbrickii</i> W.S. Davis					ROS	CRU		
<i>Malacothrix foliosa</i> A. Gray	ssp. <i>polycephala</i> W.S. Davis					ROS	CRU		
<i>Malacothrix incana</i> (Nutt.) Torr. & A. Gray						ROS	CRU		
<i>Malacothrix indecora</i> Greene						ROS	CRU		
<i>Malacothrix junakii</i> W.S. Davis						ROS	CRU		

⁸¹Collections of this taxa have been made on Catalina, but there are taxonomic issues⁸²UC: TS. Brandegee Aug 25 1894⁸³SD: E. R. Blakley Sep 24, 1961 4781⁸⁴UC: FR. Fosberg Apr 29 1951 SA4707⁸⁵SSBG: S.A. Junak, K. Kirkland Jul 17 1998 SCI-777⁸⁶RSA: Steven A. Junak Oct 2 1996 SCI-700⁸⁷SSBG: S.A. Junak Sep 28 1996 SCI-673⁸⁸SSBG: S.A. Junak May 15 1995 SCI-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	var. <i>implicata</i> (Eastw.) H.M. Hall	CLE ⁸⁹	NIC	CAT		ROS	CRU	ANA	MIG
<i>Malacothrix saxatilis</i> (Nutt.) Torr. & A. Gray*	var. <i>tenuifolia</i> (Nutt.) A. Gray		NIC	CAT			CRU	ANA	MIG
<i>Malacothrix simulis</i> W.S. Davis & F.H. Raven							CRU	ANA	
<i>Malacothrix squamida</i> Greene									
<i>Matricaria occidentalis</i> Greene									
<i>Matricaria discoidea</i> DC.*									
<i>Micropus californicus</i> Fisch. & C.A. Mey.	var. <i>californicus</i>	CLE	NIC			ROS	CRU	ANA	
<i>Microseris douglasii</i> (DC.) Sch. Bip.	ssp. <i>douglasii</i>		NIC			ROS	CRU		
<i>Microseris douglasii</i> (DC.) Sch. Bip.	ssp. <i>tenella</i> (A. Gray)	K.L. Chambers	NIC			ROS	CRU		MIG
<i>Microseris douglasii</i> (DC.) Sch. Bip.	ssp. <i>platycarpa</i> (A. Gray)	K.L. Chambers	CLE	CAT					
<i>Microseris elegans</i> A. Gray		K.L. Chambers	CLE	NIC			CRU		MIG
<i>Munzothamnus blairii</i> (Munz & L.M. Johnst.) P.H. Raven									
<i>Pentachaeta lyoni</i> A. Gray									
<i>Perityle emoryi</i> Torr.		CLE	CAT	CAT	BAR	ROS	CRU	CRU	ANA
<i>Pluchea odorata</i> (L.) Cass.			CAT	CAT					
<i>Pluchea sericea</i> (Nutt.) Coville									
<i>Pseudognaphalium biocellatum</i> Anderb.		CLE	NIC	CAT	BAR ⁹³	ROS	CRU	ANA	MIG
<i>Pseudognaphalium californicum</i> (DC.) Anderb.		CLE ⁹⁴	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Pseudognaphalium benevolens</i> (Davidson) Anderb.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Pseudognaphalium microcephalum</i> (Nutt.) Anderb.		CLE ⁹⁵	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Pseudognaphalium latoculum</i> (L.) Hilliard & B.L. Burtt*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Pseudognaphalium ranosissimum</i> (Nutt.) Anderb.									
<i>Pseudognaphalium stramineum</i> (Kunth) Anderb.									
<i>Psilocarphus brevissimus</i> Nutt.	var. <i>brevissimus</i>	CLE ⁹⁶	NIC	CAT		ROS	CRU	ANA	MIG
<i>Psilocarphus tenellus</i> Nutt.		CLE	CAT	CAT	BAR	ROS	CRU	ANA	
<i>Rafinesquia californica</i> Nutt.		CLE	CAT						
<i>Senecio glomeratus</i> Poir.*									
<i>Senecio aphanactis</i> Greene	var. <i>douglasii</i> (DC.) B.L.	CLE	CAT			ROS	CRU		
<i>Senecio flaccidus</i> Less.	Turner & T.M. Barkley	A. Gray	CLE	CAT					
<i>Senecio lyoni</i>									

⁸⁹RSA: Steven A. Junak, Mary C. Hochberg, H.L. Ferguson Jul 28 1981 scd13⁹⁰SD: Robert F. Thorne Apr 29 1966 36278⁹¹SBG: R.F. Thorne Apr 29 1966 36290⁹²RSA: Tim Ross, Janet Takara, S. Ote Apr 24 1993 6957⁹³NPS Park flora checklist⁹⁴UC: Tim Ross Apr 16 1992 6207⁹⁵SDSU: R. M. Beauthamp 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>Silphium marianum</i> (L.) Gaertn.*	ssp. <i>californica</i> (Nutt.) Semple	CLE	NIC	CAT	BAR ⁹⁷	ROS	CRU	CRU	
<i>Solidago velutina</i> DC.		CLE	NIC	CAT		ROS	CRU	CRU	
<i>Sonchus asper</i> (L.) Hill*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Sonchus oleraceus</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Sonchus tenerinus</i> L.*		CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Stebbinsoseris heterocarpa</i> (Nutt.) K.L. Chambers ⁹⁸		CLE	NIC	CAT		ROS	CRU	ANA	
<i>Stephanomeria cichoriacea</i> A. Gray		CLE	NIC	CAT		ROS	CRU	CRU	
<i>Stephanomeria diegensis</i> Gottlieb		CLE	CAT			ROS	CRU	CRU	
<i>Stephanomeria exigua</i> Benth.	ssp. <i>coronaria</i> (Greene) Gottlieb		CAT ⁹⁹		ROS	CRU	CRU		MIG
<i>Stephanomeria virgata</i> Benth.	ssp. <i>virgata</i>	CLE	CAT		ROS	CRU	CRU	CRU	
<i>Styleocladium gnaphaloides</i> Nutt.		CLE ¹⁰⁰	CAT		ROS	CRU	CRU	CRU	
<i>Symphytum chilense</i> (Nees) G.L. Nesom		CLE	CAT		ROS	CRU	CRU	CRU	
<i>Symphytum subulatum</i> (Michx.) G.L. Nesom		CLE	CAT ¹⁰¹		ROS	CRU	CRU	CRU	
<i>Taraxacum erythrospermum</i> Besser [*]		NIC	CAT ¹⁰³		ROS	CRU	CRU		
<i>Taraxacum officinale</i> F.H. Wigg,*			CAT						
<i>Thelesperma megapotamicum</i> (Spreng.) Kunze*		CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Tragopogon porrifolius</i> L.*		CLE	NIC	CAT		ROS	CRU	CRU	
<i>Urticarpus hindleii</i> (DC.) Nutt. ¹⁰⁴		CLE	NIC	CAT	BAR&	ROS	CRU	CRU	
<i>Venegasia carpesioides</i> DC.		NIC	CAT						
<i>Xanthium spinosum</i> L. ¹⁰⁵		CLE	CAT						
<i>Xanthium strumarium</i> L. ¹⁰⁶									
Bataceae									
<i>Batis maritima</i> L.		CLE							
Berberidaceae									
<i>Berberis pinnata</i> Lag.	ssp. <i>insularis</i> Munz				ROS	CRU	CRU	ANA	
Boraginaceae									
<i>Amsinckia intermedia</i> Fisch. & C.A. Mey.		CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Amsinckia menziesii</i> (Lehm.) A. Nelson & J.F. Macbr.		CLE ¹⁰⁷	CAT				CRU	ANA	MIG
<i>Amsinckia spectabilis</i> Fisch. & C.A. Mey.	var. <i>spectabilis</i>	CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Cryptantha intermedia</i> (A. Gray) Greene	var. <i>intermedia</i>	CLE	CAT				CRU	ANA	MIG

⁹⁷SBBG: R.N. Philbrick Mar 18 1968 B68-20⁹⁸Synonym: *Microseris heterocarpa* (Nutt.) K.L. Chambers⁹⁹RSA: FR, Fosberg, 4460, Apr 3 1931¹⁰⁰RSA: Orlando Mistretta, Apr 5 1992 206¹⁰¹SD: Robert F. Thorne, P. Everett, 36823, Apr 18, 1967¹⁰²SBBG: M.L. Hoels, R.F. Thorne Apr 6 1996 2665¹⁰³Synonym: *Microseris linearifolia* (DC.) Sch. Bip.¹⁰⁵Native status on islands unknown¹⁰⁶Native status on islands unknown¹⁰⁷UCR: J.R. Elkoff May 16 2001 s.n.

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Cryptantha clevelandii</i> Greene		CLE	CAT	BAR	ROS	CRU	ANA		
<i>Cryptantha leiocarpa</i> (Fisch. & C.A. Mey.) Greene		CLE	NIC	CAT ¹⁰⁸	BAR	ROS			MIG
<i>Cryptantha maritima</i> (Greene) Greene				CAT					MIG
<i>Cryptantha micromeres</i> (A. Gray) Greene				CAT					
<i>Cryptantha microstachys</i> (A. Gray) Greene									
<i>Cryptantha muricata</i> (Hook. & Arn.) A. Nelson & J.F. Macbr.									
<i>Cryptantha traskiae</i> I.M. Johnst.									
<i>Cryptantha wigginsii</i> I.M. Johnst.									
<i>Emmenanthe penduliflora</i> Benth.	var. <i>penduliflora</i>	CLE	CAT				CRU		
<i>Eriodictyon traskiae</i> Eastw.	ssp. <i>traskiae</i>			CAT					
<i>Eryctaria chrysanthemifolia</i> (Benth.) Greene	var. <i>chrysanthemifolia</i>	CLE	CAT	BAR	ROS	CRU	ANA		MIG
<i>Harpagonella palmeri</i> A. Gray				CAT					
<i>Heliotropium curassavicum</i> L.	var. <i>oculatum</i> (A. Heller)	CLE	NIC	CAT	ROS	CRU	ANA		MIG
<i>Nama stenocarpum</i> A. Gray	I.M. Johnst. ex Tidestr.	CLE ¹¹¹	CAT						
<i>Nemophila menziesii</i> Hook. & Arn.			NIC			ROS	CRU		
<i>Nemophila pedunculata</i> Benth.			CAT			ROS	CRU		
<i>Pectocarya linearis</i> (Ruiz & Pav.) DC.	ssp. <i>ferocula</i> (I.M. Johnst.) Thorne	CLE ¹¹²	NIC	CAT					
<i>Pectocarya penicillata</i> (Hook. & Arn.) A. DC.			CAT			ROS	CRU		
<i>Phacelia cicutaria</i> Greene	var. <i>hispida</i> J.T. Howell	CLE	CAT				CRU		
<i>Phacelia hubrichtii</i> (J.F. Macbr.) L.M. Garrison ¹¹³			CLE	NIC	CAT				
<i>Phacelia distans</i> Benth.		CLE		BAR	ROS	CRU			
<i>Phacelia floribunda</i> Greene			CAT						
<i>Phacelia grandiflora</i> (Benth.) A. Gray									
<i>Phacelia insularis</i> Munz	var. <i>insularis</i>	CLE	CAT		ROS	CRU ¹¹⁴			
<i>Phacelia lyoni</i> A. Gray									
<i>Phacelia ranosissima</i> Douglas ex Lehm.									
<i>Phacelia viscidula</i> (Lindl.) Torr.									
<i>Pholistoma auritum</i> (Lindl.) Lija	var. <i>auritum</i>	CLE?	CAT	BAR		CRU			
<i>Pholistoma racemosum</i> (A. Gray) Constance		CLE	CAT	BAR		CRU			
<i>Plagiobothrys acanthocarpus</i> (Piper) I.M. Johnst.			CAT ¹¹⁵						
<i>Plagiobothrys canescens</i> Benth.			CAT						

¹⁰⁸UC: T.S. Brandegee May 20 1890
¹⁰⁹SD: R. Mitchell Beauchamp, M. Douglas Mar 24, 1972 3222

¹¹⁰UC: Michael G. Simpson Lori L. Simpson April 21 2012 3682
¹¹¹RSA: E. Kellogg Jun 28 1992 s.n.

¹¹²SBIG: S.A. Imak Mar 7 1897 SC-1732

¹¹³Synonym: *Phacelia cicutaria* Greene var. *hubrichtii* (J.F. Macbr.) J.T. Howell
¹¹⁴In Wallace 1985 but not NPS list
¹¹⁵UCR: TS. Ross Apr 22 1893 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. Johnst.	var. <i>gracilis</i> (I.M. Johnst.) Higgins	CLE		CAT			CRU	ANA	
<i>Plagiobothrys collinus</i> (Phil.) I.M. Johnst.	var. <i>californicus</i> (A. Gray) Higgins	CLE		CAT			CRU	ANA	
<i>Athyrsus pusillus</i> (Hook.) Greene		CLE		CAT			CRU	ANA	
<i>Boechera hoffmannii</i> (Munz) Al-Shehbaz		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Brassica nigra</i> (L.) W.D.J. Koch*		CLE	NIC	CAT		ROS	CRU		
<i>Brassica tournefortii</i> Gouan*		CLE	NIC	CAT		ROS	CRU		
<i>Brassica rapa</i> L.*		CLE	NIC	CAT		ROS	CRU		
<i>Cakile edentula</i> (Bigelow) Hook.*		CLE	NIC	CAT		ROS	CRU		
<i>Cakile maritima</i> Scop.*		CLE	NIC	CAT		ROS	CRU		
<i>Capsella bursa-pastoris</i> (L.) Medik.*		CLE		CAT		ROS	CRU		
<i>Cardamine californica</i> (Nutt.) Greene		CLE		CAT		ROS	CRU		
<i>Cardamine oligosperma</i> Nutt.		CLE		CAT		ROS	CRU		
<i>Caulanthus lasiophyllus</i> (Hook. & Arn.) Payson ¹¹⁹		CLE		CAT		ROS	CRU		
<i>Descurainia pinnata</i> (Walter) Britton		CLE		CAT		ROS	CRU		
<i>Dithyrea maritima</i> (Davidson) Davidson		CLE	NIC	CAT ¹²⁰			CRU		
<i>Draba cuneifolia</i> Nutt. ex Torr. & A. Gray		CLE	NIC	CAT			CRU		
<i>Erysimum ammoniifolium</i> A. Heller		CLE		CAT			CRU		
<i>Erysimum cheirii</i> (L.) Crantz*		CLE		CAT			CRU		
<i>Erysimum insulare</i> Greene		CLE	NIC	CAT			CRU		
<i>Hirschfeldia incana</i> (L.) Lagr.-Fossat ^{121*}		CLE?122	NIC	CAT			CRU		
<i>Hornungia procumbens</i> (L.) Hayek		CLE	NIC	CAT			CRU		
<i>Lepidium draba</i> L.*		CLE	NIC	CAT			CRU		
<i>Lepidium lasiocarpum</i> Nutt.		CLE	NIC	CAT			CRU		
<i>Lepidium latipes</i> Hook.		CLE	NIC	CAT			CRU		
<i>Lepidium nitidum</i> Nutt.		CLE	NIC	CAT			CRU		
<i>Lepidium oblongum</i> Small		CLE	NIC	CAT			CRU		
<i>Lepidium strictum</i> (S. Watson) Rattan*		CLE	NIC	CAT			CRU		
<i>Lepidium virginicum</i> L. ^{124*}	ssp. <i>menziesii</i> (D.C.) Thell.	CLE		CAT			CRU		
<i>Lobularia maritima</i> (L.) Desv.*		CLE	NIC	CAT			CRU		
<i>Nasturtium officinale</i> W.T. Aiton ¹²⁵		NIC	CAT				CRU		

¹¹⁹POM: PA. Munz Apr. 10 1925:6705¹²⁰RSA: R.F. Thorne, R.C. Rollins, D. Propst, R. Carolina, 36761, Mar 19 1967¹²¹SBIG: S.A. Jumak, M.L. Hock, J. Takara Mar 28 1997 SCa-388¹²²UC: T.S. Brandegee, Apr 1888¹²³Synonym: *Guillema lasiophylla* (Hook. & Arn.) Greene¹²⁴On specimens in CCH, extirpated from Catalina? per: <http://www.rareplants.crops.org/detail/571.html>¹²⁵Synonym: *Brassica geniculata* (Desf.) Benth.¹²⁶Pers. com. E. Howe¹²⁷SBIG: S.A. Jumak, M.L. Hock, M.C. Hochberg, Apr 1981 SCi-17¹²⁸Native 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	CAT			ROS	CRU		
<i>Sibara filifolia</i> (Greene) Greene		CLE ¹²⁷	CAT			ROS	CRU		
<i>Sinapis arvensis</i> L. ^{128*}		CLE ¹²⁹	CAT			ROS	CRU		
<i>Sisymbrium altissimum</i> L.*									
<i>Sisymbrium irio</i> L.*		CLE	NIC	CAT			CRU	ANA	
<i>Sisymbrium officinale</i> (L.) Scop.*		CLE ¹³⁰	NIC	CAT			CRU	ANA	
<i>Sisymbrium orientale</i> L.*									
<i>Thysanocarpus conchiliferus</i> Greene									
<i>Thysanocarpus curvipes</i> Hook.		CLE ¹³¹	CAT				CRU		
<i>Thysanocarpus laciniatus</i> Nutt.		CLE	CAT			ROS	CRU		
<i>Tropidocarpum gracile</i> Hook.		CLE	CAT				CRU		
<i>Turritis glabra</i> L.									
Cactaceae									
<i>Bergerocactus emoryi</i> (Engelm.) Britton & Rose		CLE	CAT	BAR		ROS	CRU	ANA	
<i>Cylindropuntia prolifera</i> (Engelm.) F.M. Knuth		CLE	NIC	CAT			CRU	ANA	
<i>Opuntia ficus-indica</i> (L.) Mill.*		CLE	NIC	CAT			CRU	ANA	
<i>Opuntia littoralis</i> (Engelm.) Cockerell		CLE	NIC	CAT			CRU	ANA	
<i>Opuntia oricola</i> Philbrick		CLE	NIC	CAT			CRU	ANA	
Campanulaceae									
<i>Githopsis diffusa</i> A. Gray	ssp. <i>diffusa</i>			CAT			CRU		
<i>Triodanis biflora</i> (Ruiz & Pav.) Greene				CAT		ROS	CRU		
Caprifoliaceae				CAT		ROS	CRU		
<i>Lonicera hispida</i> (Lindl.) Torr. & A. Gray		CLE		CAT		ROS	CRU		
<i>Lonicera interrrupta</i> Benth.				CAT		ROS	CRU		
<i>Lonicera subspicata</i> Hook. & Arn.				CAT		ROS	CRU		
<i>Symporicarpos mollis</i> Nutt.				CAT		ROS	CRU		
Caryophyllaceae									
<i>Cardionema ramosissimum</i> (Weinm.) A. Nelson						ROS	CRU		
& J.F. Machr.									
<i>Cerastium glomeratum</i> Thunb.*		CLE	CAT ¹³²	BAR		ROS	CRU	ANA	
<i>Herniaria hirsuta</i> L.*	var. <i>cinerea</i> (DC.) Loret & Barrandon	CLE	NIC			ROS	CRU	ANA	
<i>Loeflingia squarrrosa</i> Nutt.									
<i>Minuartia douglasii</i> (Torr. & A. Gray) Mattf.		CLE	CAT			ROS	CRU		
<i>Polykarpon depressum</i> Nutt.		CLE	CAT					MIG	

¹²⁷RSA: Orlando Mistretta Apr 5 1992 142
¹²⁸Synonym: *Brassica kaberi* (DC.) I.C. Wheeler

129Pers. com. E. Howe

130SBBC: S.A. Junak May 29 1996 SCL-545
 131UC: Tim Ross Apr 14 1992 6153
 132SBBC: 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	CAT			ROS	CRU		MIG
<i>Sagina decumbens</i> (Elliott) Torr. & A. Gray	ssp. <i>occidentalis</i> (S. Watson) G. E. Crow	CLE	CAT			ROS	CRU		MIG
<i>Silene antirrhina</i> L.		CLE	CAT			ROS	CRU		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	CAT		ROS	CRU		MIG
<i>Silene coniflora</i> Ott		CLE	CAT	CAT		ROS	CRU		
<i>Spergula arvensis</i> L.*		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	CAT		ROS	CRU	ANA	
<i>Stellaria media</i> (L.) Vill.*		CLE	CAT	CAT		ROS	CRU	ANA	MIG
<i>Stellaria nitens</i> Nutt.		CLE	NIC	CAT	BAR	ROS	CRU		
<i>Aphanisma blitoides</i> Moq.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Arthrocnemum subterninale</i> (Parish) Standl.		CLE	NIC	CAT		ROS	CRU		MIG
<i>Atriplex argentea</i> Nutt.		CLE	NIC	CAT		ROS	CRU		
<i>Atriplex californica</i> Moq.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Atriplex canescens</i> (Pursh) Nutt.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Atriplex coulteri</i> (Moq.) D. Dietr.		CLE	NIC	CAT		ROS	CRU	ANA	
<i>Atriplex lenticiformis</i> (Torr.) S. Watson		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Atriplex leucophylla</i> (Moq.) D. Dietr.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Atriplex pacifica</i> A. Nelson		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Atriplex semibaccata</i> R. Br.*		CLE	NIC	CAT ¹³³		ROS	CRU		
<i>Atriplex sereniana</i> Abrams	var. <i>davidsonii</i> (Standl.) Munz var. <i>sereniana</i>		NIC	CAT					
<i>Atriplex prostrata</i> DC.*		CLE	NIC	CAT		ROS	CRU		MIG
<i>Atriplex watsonii</i> Abrams		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Bassia hyssopifolia</i> (Pall.) Kuntze*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Beta vulgaris</i> L.*		CLE							
<i>Chenopodium berlandieri</i> Moq.		CLE	NIC	CAT					
<i>Chenopodium berlandicum</i> (S. Watson) S. Watson		CLE	NIC	CAT	BAR				
<i>Chenopodium murale</i> L.*		CLE	NIC	CAT	BAR				
<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clements*		CLE	NIC	CAT		ROS	CRU		
<i>Dysphania multifida</i> (L.) Mosyakin & Clements*		CLE	NIC	CAT		ROS	CRU		
<i>Monolepis nuttalliana</i> (Schult.) Greene		CLE	NIC	CAT		ROS	CRU		
<i>Salicornia depressa</i> Standl.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Salicornia pacifica</i> Standl.		CLE	NIC	CAT					

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIC
<i>Salsola australis</i> R. Br. ^{134*}		CLE	NIC	CAT ¹³⁵	BAR	ROS	CRU	CRU	
<i>Suaeda calceiformis</i> (Hook.) Moq.		CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIC
<i>Suaeda taxifolia</i> (Standl.) Standl.									
Cistaceae									
<i>Helianthemum greenii</i> B.L. Rob.		CLE? ¹³⁶	CAT	CAT	ROS	CRU	CRU		MIC&
<i>Helianthemum scoparium</i> Nutt.									
Cleomaceae									
<i>Peritoma arborea</i> (Nutt.) H.H. Ilfis		CLE	CAT	CAT	ROS	ROS	CRU		
Convolvulaceae									
<i>Calystegia macrostegia</i> (Greene) Brummitt	ssp. <i>amplissima</i> Brummitt	CLE	NIC	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						
<i>Calystegia macrostegia</i> (Greene) Brummitt	ssp. <i>macrostegia</i>		CAT						
<i>Calystegia macrophylla</i> (Greene) Munz*	ssp. <i>pedicellata</i> (Jeps.) Munz	NIC&							
<i>Calystegia soldanella</i> (L.) R. Br.*		CLE	NIC	CAT		ROS	CRU		
<i>Convolvulus arvensis</i> L.*			NIC	CAT		ROS	CRU		
<i>Convolvulus simulans</i> L.M. Perry			CLE	CAT			CRU		
<i>Cressa truxillensis</i> Kunth			CLE	NIC		ROS	CRU		
<i>Cuscuta californica</i> Hook. & Arn.			CLE	CAT		ROS	CRU		
<i>Cuscuta campestris</i> Ynck.				CAT ¹³⁷					
<i>Cuscuta occidentalis</i> Millsp.				CAT					
<i>Cuscuta pacifica</i> Costea & M. Wright	var. <i>pacifica</i>			CAT					
<i>Dichondra occidentalis</i> House				CAT					
<i>Ipomoea carnea</i> (L.) Sweet*				CAT					
Cornaceae									
<i>Corinus 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	MIC
<i>Crassula ovata</i> (Mill.) Druce*		CLE							
<i>Dudleya blochmaniae</i> (Eastw.) Moran	ssp. <i>blochmaniae</i>								
<i>Dudleya blochmaniae</i> (Eastw.) Moran	ssp. <i>insularis</i> (Moran) Moran								
<i>Dudleya caespitosa</i> (Tshaw) Britton & Rose									
<i>Dudleya candelabrum</i> Rose									
<i>Dudleya greenii</i> Rose									
<i>Dudleya gnoma</i> S.W. McCabe									

¹³⁴Synonym: *Salsola fragus* L.

135SBIGC; S.A. Junak Oct 22 1998 SCa-S23

136Pers. com. E. Howe

137SBIGC; M.R. Benedict Sep 30 1969

138RSA; 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 strickiae</i> (Rose) Moran	ssp. <i>hassei</i> (Rose) Moran		CAT				BAR		
<i>Dudleya virens</i> (Rose) Moran	ssp. <i>insularis</i>		CAT						
<i>Dudleya virens</i> (Rose) Moran	ssp. <i>virens</i>		CLE						
<i>Crossosomataceae</i>									
<i>Crossosoma californicum</i> Nutt.									
<i>Cucurbitaceae</i>									
<i>Cucurbita foetidissima</i> Kunth									
<i>Marah fabacea</i> (Naudin) Greene									
<i>Marah macrocarpa</i> (Greene) Greene									
<i>Ericaceae</i>									
<i>Arbutus menziesii</i> Pursh									
<i>Arcostaphylos catalinae</i> P.V. Wells									
<i>Arcostaphylos conferiflora</i> Eastw.									
<i>Arcostaphylos insularis</i> Parry									
<i>Arcostaphylos crustacea</i> Eastw.									
<i>Arcostaphylos crustacea</i> Eastw.	ssp. <i>insulicola</i> (P.V. Wells) V.T. Parker et al.								
<i>Arcostaphylos viridisissima</i> (Eastw.) McMinn	ssp. <i>subcordata</i> (Eastw.) V.T. Parker et al.								
<i>Comarostaphylus diversifolia</i> (Parry) Greene									
<i>Vaccinium ovatum</i> Pursh	ssp. <i>planifolia</i> (Jeps.) C.D. Wallace		CAT						
<i>Xylococcus bicolor</i> Nutt.									
<i>Euphorbiaceae</i>									
<i>Chamaesyce maculata</i> (L.) Small*									
<i>Chamaesyce serpens</i> (Kunth) Small*									
<i>Chamaesyce serpilloidea</i> (Pers.) Small									
<i>Croton setigerus</i> Hook.									
<i>Euphorbia crenulata</i> Engelm.									
<i>Euphorbia misera</i> Benth.									
<i>Euphorbia peplus</i> L.*									
<i>Euphorbia spathulata</i> Lam.									
<i>Ricinus communis</i> L.*									
<i>Stillingia linearifolia</i> S. Watson									
<i>Fabaceae</i>									
<i>Acacia ecdylos</i> G. Don *									
	CLE? ¹⁴⁴								

¹³⁹RSA: Elmh. Elmhore Feb 19 1939 422
¹⁴⁰SBIG: M.B. Dunkle Jul 26 1939 8359

¹⁴¹SD: Darley F. Howe Feb 24, 1968 4486
¹⁴²SBIG: M.B. Dunkle Jul 31 1939 8402

¹⁴³RSA: Steven A. Junak Nov 9 1990 SC144
¹⁴⁴Pers. 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*		CRU							
<i>Acacia melanoxylon</i> R. Br.*		CRU							
<i>Acmispon americanus</i> (Nutt.) Rydb. ¹⁴⁵	var. <i>americanus</i>	CRU							
<i>Acmispon argophyllus</i> (A. Gray) Brouillet	var. <i>adsurzens</i> (Dunkle)	CLE	NIC	CAT	BAR	ROS ¹⁴⁶	CRU		
<i>Acmispon argophyllus</i> (A. Gray) Brouillet	var. <i>argentatus</i> (Dunkle)	CLE	CAT	CAT	CAT	ROS	CRU		MIG ¹⁴⁷
<i>Acmispon brachycarpus</i> (Benth.) D.D. Sokoloff ¹⁴⁸	var. <i>nitens</i> (Greene)	CLE	CAT	CAT	CAT	ROS	CRU	ANA	
<i>Acmispon dendroides</i> (Greene) Brouillet	var. <i>dendroides</i>	CLE	CAT	CAT	CAT	ROS	CRU		
<i>Acmispon dendroides</i> (Greene) Brouillet	var. <i>teatillii</i> (Greene) Brouillet	CLE	CAT	CAT	CAT	ROS	CRU		
<i>Acmispon grandiflorus</i> (Benth.) Brouillet	var. <i>traskiae</i> (Abrams) Brouillet	CLE	CAT	CAT	CAT	ROS	CRU		
<i>Acmispon heermannii</i> (Durand & Hilg.) Brouillet	var. <i>grandiflorus</i>	CLE	CAT	CAT	CAT	ROS	CRU		
<i>Acmispon maritimus</i> (Nutt.) D.D. Sokoloff ¹⁴⁹	var. <i>maritimus</i>	CLE	NIC	CAT	CAT	ROS	CRU	ANA	MIG
<i>Acmispon micranthus</i> (Torr. & A. Gray) Brouillet ¹⁵⁰		CLE	CAT	CAT	CAT	ROS	CRU		
<i>Acmispon parviflorus</i> (Benth.) D.D. Sokoloff ¹⁵¹		CLE	CAT	CAT	CAT	ROS	CRU	ANA	
<i>Acmispon strictosus</i> (Nutt.) Brouillet		CLE	CAT	CAT	CAT	ROS	CRU	ANA	MIG
<i>Acmispon wrangelianus</i> (Fisch. & C.A. Mey.) D.D. Sokoloff ¹⁵²		CLE	CAT	CAT	CAT	ROS	CRU	ANA	MIG
<i>Albizia lophantha</i> (Willd.) Benth.*							CRU		
<i>Astragalus curtipes</i> A. Gray	var. <i>didymocarpus</i>	CLE	NIC	CAT	CAT	ROS	CRU		MIG
<i>Astragalus didymocarpus</i> Hook. & Arn.							CRU		MIG
<i>Astragalus gambleianus</i> E. Sheldon							CRU		
<i>Astragalus miganensis</i> Greene							CRU		
<i>Astragalus neerinii</i> A. Gray							CRU		
<i>Astragalus traskiae</i> Eastw.							CRU		
<i>Astragalus trichopodus</i> (Nutt.) A. Gray	var. <i>longulus</i> (M.E. Jones) Barnaby	CLE	NIC	CAT	CAT	ROS	CRU		
<i>Astragalus trichopodus</i> (Nutt.) A. Gray	var. <i>trichopodus</i>	CLE	CAT	CAT	CAT	ROS	CRU		
<i>Caesalpinia spinosa</i> (Molina) Kuntze*							CRU		
<i>Coronilla valentina</i> L.*							CRU		
<i>Genista linifolia</i> L.*							CRU		
<i>Genista monspessulana</i> (L.) L.A.S. Johnson*							CRU		

¹⁴⁵Synonym: *Lotus purshianus* Clem. & E.G. Clem.¹⁴⁶CAS; L.R. Ahans, L.L. Wiggins 30 June, 1931:239¹⁴⁷DS; E.R. Blakley 3 April 1962:5081¹⁴⁸Synonym: *Lotus hamistratus* Greene; Wallace listed *L. hamistratus* on Cruz, but NPS Park Flora did not¹⁴⁹Synonym: *Lotus galactinus* Greene¹⁵⁰Synonym: *Lotus hamatus* Greene¹⁵¹Synonym: *Lotus micranthus* Benth.¹⁵²Synonym: *Lotus wrangelianus* Fisch. & C.A. Mey.; *Lotus subspinatus* Lag., missppl.¹⁵³RSA: 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 ¹⁵⁴	CAT	CAT	CAT	ROS	CRU	CRU	ANA
<i>Lathyrus tingitanus</i> L.*	var. <i>alefeldii</i> (T.G. White) Isley	CLE	CAT	CAT	CAT	ROS	CRU	CRU	ANA
<i>Lathyrus vestitus</i> Nutt.	var. <i>vestitus</i>		CAT	CAT	CAT	ROS	ROS	ROS	MIG
<i>Lathyrus vestitus</i> Nutt.			CAT	CAT	CAT	ROS	ROS	ROS	MIG
<i>Lotus corniculatus</i> L.*		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus albifrons</i> Benth.		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus arboreus</i> Sims		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus bicolor</i> Lindl.		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus chamissonis</i> Eschsch.		CLE ¹⁵⁵	CAT	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus concinnus</i> J. Agardh		CLE	CLE	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus guadalupensis</i> Greene		CLE	CLE	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus hirsutissimus</i> Benth.		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus microcarpus</i> Sims		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus succulentus</i> K. Koch		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus truncatus</i> Nutt.		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Lupinus variicolor</i> Steud.		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Medicago polymorpha</i> L.*		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Medicago sativa</i> L.*		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Melilotus albus</i> Medic. [*]		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Melilotus indicus</i> (L.) All.*		CLE	NIC	CAT	CAT	ROS	ROS	CRU	ANA
<i>Pickeringia montana</i> Nutt.	var. <i>montana</i>								MIG
<i>Pisum sativum</i> L.*									
<i>Robinia pseudoacacia</i> L.*		NIC	CAT	CAT	CAT	CRU	CRU	CRU	CRU
<i>Spartium junceum</i> L.*		NIC	CAT	CAT	CAT	ROS	ROS	CRU	CRU
<i>Trifolium albopurpureum</i> Torr. & A. Gray		NIC ¹⁵⁶	CAT	CAT	CAT	ROS	ROS	CRU	CRU
<i>Trifolium barbigerum</i> Torr.									MIG
<i>Trifolium ciliolatum</i> Benth.									
<i>Trifolium depauperatum</i> Desv.									
<i>Trifolium fucatum</i> Lindl.									
<i>Trifolium gracilentum</i> Torr. & A. Gray									
<i>Trifolium hirtum</i> All.									
<i>Trifolium macrocarpum</i> Hook. & Arn.									
<i>Trifolium microcephalum</i> Pursh									
<i>Trifolium microdon</i> Hook. & Arn.									
<i>Trifolium palmeri</i> S. Watson									
<i>Trifolium repens</i> L.*									

¹⁵⁴SD: Steven A. Junak May 19, 1997 SCJS77

155SBBG: M.R. Benedict Jun 26 1971

156JEP93564 (SN-846); det. var. *dichotomum* (= *T. dichotomum* in TM2) 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.	var. <i>major</i> Loja.	CLE ¹⁵⁷	CAT ¹⁵⁸	BAR	ROS	ROS	CRU	ANA	MIG
<i>Trifolium willdenovii</i> Spreng.			CAT ¹⁵⁹	CAT	ROS	CRU	CRU	ANA	MIG
<i>Vicia americana</i> Willd.			CLE	NIC	ROS	CRU	CRU	ANA	
<i>Vicia benghalensis</i> L.*			CLE ¹⁶⁰	CAT ¹⁶¹	ROS	CRU	CRU	ANA	MIG
<i>Vicia hirssei</i> S. Watson					ROS	ROS	CRU	ANA	
<i>Vicia ludoviciana</i> Torr. & A. Gray	ssp. <i>ludoviciana</i>				ROS	ROS	CRU	ANA	
<i>Vicia sativa</i> L.*	ssp. <i>nigra</i> (L.) Erhart				ROS	ROS	CRU	ANA	
<i>Vicia sativa</i> L.*	ssp. <i>sativa</i>				ROS	ROS	CRU	ANA	
<i>Vicia villosa</i> Roth	(Host) Corb.				ROS	ROS	CRU	CRU	
<i>Quercus agrifolia</i> Née	var. <i>agrifolia</i>	CLE	CAT	CAT	ROS	ROS	CRU	ANA	
<i>Quercus chryssolepis</i> Liebm.			CAT	CAT	ROS	CRU	CRU		
<i>Quercus douglasii</i> Hook. & Arn.			CAT	CAT	ROS	CRU	CRU		
<i>Quercus engelmannii</i> Greene			CAT	CAT	ROS	CRU	CRU		
<i>Quercus kelloggii</i> Newb.			CAT	CAT	ROS	CRU	CRU		
<i>Quercus lobata</i> Née			CAT	CAT	ROS	CRU	CRU		
<i>Quercus ×macdonaldii</i> Greene			CAT	CAT	ROS	CRU	CRU		
<i>Quercus pacifica</i> Nixon & C.H. Mull.			CAT	CAT	ROS	CRU	CRU		
<i>Quercus parvula</i> Greene	var. <i>parvula</i>	CLE	CAT	CAT	ROS	CRU	CRU		
<i>Quercus tomentella</i> Engelm.			CLE	CAT	ROS	CRU	CRU		
Frankeniaceae					ROS	CRU	CRU		
<i>Frankenia salina</i> (Molina) I.M. Johnst.					ROS	CRU	CRU		
Garryaceae					ROS	CRU	CRU		
<i>Garrya veatchii</i> Kellogg					ROS	CRU	CRU		
Genitaniaceae					ROS	CRU	CRU		
<i>Zeltnera dacyi</i> (Jeps.) G. Mans.		CLE	NIC	CAT	ROS	CRU	CRU		
<i>Zeltnera venusta</i> (A. Gray) G. Mans.									
Geraniaceae									
<i>California macrophylla</i> (Hook. & Arn.) J.J. Aldasoro et									
<i>Erodium botrys</i> (Cav.) Berol.*		CLE	NIC	CAT ¹⁶³	ROS	CRU	CRU		
<i>Erodium brachycarpum</i> (Godr.) Thell.*		CLE ¹⁶⁵	CAT ¹⁶⁶	CAT	ROS	CRU	CRU		
<i>Erodium cicutarium</i> (L.) Aiton*		CLE	NIC	BAR	ROS	CRU	CRU		
<i>Erodium moschatum</i> (L.) Aiton*		CLE	NIC	BAR	ROS	CRU	CRU		

¹⁵⁷RSA: PH. Raven May 8 1962 17614

158UC: FR. Rosberg Mar 25 1931 4367

159SBBC: PH. Raven May 20 1962 17789

160UCR: Steve Boyd, T.S. Ross, L. Arnseth Apr 7 1990 4260

161SBBC: R.F. Thorne Mar 7 1986 35954

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

163CH: W.A. Wallace

164SBBC: S.A. Junak, K. Kirkland, L. Vorobit May 16 1998 SCa-697

165SBBC: T. Ross, O. Mistretta, M. Hammitt May 18 1991 5191

166SBBC: 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	CAT			ROS	CRU		
<i>Geranium carolinianum</i> L.		CAT				ROS			
<i>Geranium dissectum</i> L.*							CRU		
<i>Geranium molle</i> L.*							CRU		
<i>Pelargonium ×hortorum</i> L.H. Bailey*		CLE ¹⁶⁷	NIC	CAT		ROS	CRU		MIG ¹⁶⁸
<i>Pelargonium peltatum</i> (L.) ÉHér.*			NIC						
Grossulariaceae									
<i>Ribes malacatum</i> Sm.		CLE		CAT		ROS	CRU	ANA	
<i>Ribes viburnifolium</i> A. Gray									
Juglandaceae									
<i>Juglans californica</i> S. Watson *				CAT					
<i>Juglans regia</i> L.*							CRU		
Lamiaceae									
<i>Clinocephalum 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		
<i>Mentha aquatica</i> L.*				CAT	CAT				MIG
<i>Mentha spicata</i> L.*					CAT		CRU		
<i>Nepeta cataria</i> L.*				CAT	CAT				
<i>Saltvia apiana</i> Jeps.									
<i>Salvia brandegeei</i> Munz									
<i>Salvia columbariae</i> Benth.		CLE		CAT			ROS	CRU	
<i>Salvia leucophylla</i> Greene								CRU	
<i>Salvia mellifera</i> Greene								ANA	
<i>Scutellaria tuberosa</i> Benth.			CLE ¹⁶⁹		CAT		CRU		
<i>Stachys gingoides</i> Benth.									
<i>Stachys bullata</i> Benth.							ROS	CRU	
<i>Trichostema lanceolatum</i> Benth.				CAT				ANA	
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>Anmannia robusta</i> Heer & Regel					CAT				

¹⁶⁷SBBC: T. Ross May 22 1891 5435¹⁶⁸SBBC: R.N. Philbrick Mar 25 1966 B66-91
169Pers. com. E. Howe

APPENDIX 2. Continued

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

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

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

¹⁷²SBBC: S.A. Junak, K. Kirkland Apr 13 2001 SCa-1421

¹⁷³SBBC: Tim Ross, Orlando Mistretta, Mike Hammitt May 19 1991 5537

¹⁷⁴UCR: S.A. Junak May 20 1996

¹⁷⁵UCR: T.S. Ross Apr 23 1993 6926

¹⁷⁶UCR: 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 polyanthemos</i> Schauer*		CAT ¹⁷⁸					CRU		
<i>Eucalyptus sideroxylon</i> Wools*		CRU	CRU						
<i>Eucalyptus tereicornis</i> Sm.*									
Nyctaginaceae									
<i>Abronia latifolia</i> Eschsch.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Abronia maritima</i> S. Watson		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Abronia umbellata</i> Lam.		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Mirabilis laevis</i> (Benth.) Curran									
Oleaceae									
<i>Olea europaea</i> L.*							CRU	ANA	
Onagraceae									
<i>Camissoniopsis strigulosa</i> (Fisch. & C.A. Mey.) P.H. Raven	ssp. <i>cheiranthifolia</i>	CLE	NIC			ROS	CRU		MIG
<i>Camissoniopsis cheiranthifolia</i> (Spreng.)									
WL. Wagner & Hoch	ssp. <i>stufiticosa</i> (S. Watson)								
<i>Camissoniopsis cheiranthifolia</i> (Spreng.)	NIC								
WL. Wagner & Hoch									
<i>Camissoniopsis guadalupensis</i> (S. Watson)									
WL. Wagner & Hoch	WL. Wagner & Hoch	CLE							
<i>Camissoniopsis hirtella</i> (Greene)									
WL. Wagner & Hoch									
<i>Camissoniopsis ignota</i> (Jeps.) WL. Wagner & Hoch		CAT				ROS	CRU		MIG
<i>Camissoniopsis intermedia</i> (P.H. Raven)									
WL. Wagner & Hoch									
<i>Camissoniopsis micrantha</i> (Spreng.)		CLE	CAT			ROS	CRU	ANA	MIG
WL. Wagner & Hoch									
<i>Camissoniopsis robusta</i> (P.H. Raven)									
WL. Wagner & Hoch									
<i>Clarkia davyi</i> (Jeps.) H. Lewis & M. Lewis		CLE	CAT			ROS	CRU	ANA	
<i>Clarkia epilobioides</i> (Flor. & A. Gray) A. Nelson & J.F.									
<i>Clarkia prostrata</i> H. Lewis & M. Lewis									
<i>Clarkia purpurea</i> (Curtis) A. Nelson & J.F. Macbr.	ssp. <i>quadrivalvula</i> (Lindl.)	CAT				ROS	CRU		
	H. Lewis & M. Lewis								
<i>Clarkia unguiculata</i> Lindl.		CAT							
<i>Epilobium brachycarpum</i> C. Presl		CLE ¹⁷⁹							
<i>Epilobium canum</i> (Greene) P.H. Raven ¹⁸⁰									
<i>Epilobium canum</i> (Greene) P.H. Raven	ssp. <i>canum</i>	CLE	CAT						

178UCR; TS. Ross, Janet Takara, Stacey Otte Apr 24 1993 6964

179Pers. com. E. Howe

180This taxa unresolved

181SDSU; R.M. Beauchamp Aug 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.	ssp. <i>ciliatum</i>	CAT	CAT			ROS	CRU	CRU	MIG
<i>Eulobus edificatorius</i> Torr. & A. Gray		CAT	CAT				CRU	CRU	
<i>Ludwigia peploides</i> (Kunth) PH. Raven	ssp. <i>peploides</i>						CRU	CRU	
<i>Oenothera xenogaura</i> W.L. Wagner & Hoch*							CRU	CRU	
<i>Oenothera elata</i> Kunth.	ssp. <i>hirsutissima</i> (S. Watson) W. Dietr.	CAT					CRU	CRU	
<i>Orobanchaceae</i>									
<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			NIC	CAT		ROS	CRU	CRU	MIG
<i>Castilleja densiflora</i> (Benth.) T.I. Chuang & Heckard			CAT	CAT		ROS	CRU	CRU	MIG
<i>Castilleja exserta</i> (A. Heller) T.I. Chuang & Heckard							CRU	CRU	
<i>Castilleja foliolosa</i> Hook. & Arn.									
<i>Castilleja grisea</i> Dunke		CLE				ROS	CRU	ANA	MIG
<i>Castilleja hololeuca</i> Greene						ROS	CRU	CRU	
<i>Castilleja mollis</i> Pennell						ROS	ROS	ROS	MIG
<i>Kopsiopsis strobilacea</i> (A. Gray) Beck							ROS	ROS	
<i>Orobanche bulbosa</i> Beck							ROS	ROS	
<i>Orobanche californica</i> Cham. & Schtdl.							ROS	CRU	
<i>Orobanche fasciculata</i> Nutt.	ssp. <i>grandis</i> Heckard	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Orobanche parishii</i> (Leps.) Heckard	ssp. <i>brachyloba</i> Heckard	NIC	CAT			ROS	CRU	CRU	MIG
<i>Orobanche uniflora</i> L.		CLE ^{?182}					CRU	CRU	
<i>Oxalidaceae</i>									
<i>Oxalis articulata</i> Savigny*	ssp. <i>rubra</i> (A. St.-Hil.) Loureig			CAT			ROS	CRU	
<i>Oxalis californica</i> Abrams)	R. Knuth	CLE ¹⁸³	NIC	CAT			ROS	CRU	
<i>Oxalis corniculata</i> L.*		CLE	NIC	CAT			ROS	CRU	
<i>Oxalis pes-caprae</i> L.*									
<i>Papaveraceae</i>									
<i>Dendromecon harfordii</i> Kellogg		CLE	CAT			ROS	CRU	CRU	
<i>Ehrendorferia ochroleuca</i> (Engelm.) Fukuhara									
<i>Eschscholzia californica</i> Cham.		CLE ¹⁸⁴	NIC	CAT		ROS	CRU	CRU	MIG
<i>Eschscholzia camossoides</i> (Greene) Greene		CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Meconella denticulata</i> Greene									
<i>Papaver californicum</i> A. Gray									
<i>Papaver heterophyllum</i> (Benth.) Greene		CLE	CAT	BAR		ROS	CRU	ANA	MIG
<i>Papaver somniferum</i> L.*		NIC	CAT	BAR	ROS	ROS	CRU	CRU	
<i>Platystemon californicus</i> Benth.									
<i>Romneya coulteri</i> Harv.*									

182Pors. com. E. Howe

183RSA: Steven A. Junak May 14 1985 SC1-56
184RSA: M.B. Dunke May 27 1928 1983

APPENDIX 2. Continued

Family/species	spp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
Phrymaceae									
<i>Minulus aurantiacus</i> Curtis	var. <i>aurantiacus</i>	CLE		CAT ¹⁸⁵		ROS	CRU	ANA	
<i>Minulus aurantiacus</i> Curtis	var. <i>parviflorus</i> (Greene) D.M. Thoms.					ROS	CRU		
<i>Minulus aurantiacus</i> Curtis	var. <i>pubescens</i> (Torr.) D.M. Thoms.			CAT					
<i>Minulus aurantiacus</i> Curtis	var. <i>panicus</i> (Nutt.) D.M. Thoms.								
<i>Minulus cardinalis</i> Benth.		CLE ¹⁸⁶		CAT		ROS	CRU		
<i>Minulus floribundus</i> Lindl.		CLE		CAT		ROS	CRU		
<i>Minulus guttatus</i> DC.				CAT ¹⁸⁷		CAT	CRU		
<i>Minulus latifolius</i> A. Gray				CAT					
<i>Minulus traskiae</i> A.L. Grant									
Pittosporaceae									
<i>Pittosporum undulatum</i> Vent.*		CAT ¹⁸⁸							
Plantaginaceae									
<i>Antirrhinum kelloggii</i> Greene		CAT		CAT		ROS	CRU	ANA	MIG
<i>Antirrhinum multiflorum</i> Pennell				CLE		CAT	CRU		
<i>Antirrhinum nuttallianum</i> A. DC.	ssp. <i>subsessile</i> (A. Gray) D.M. Thoms.			CLE		CAT			
<i>Callitrichia marginata</i> Torr.				CLE		CAT			
<i>Collomia heterophylla</i> Graham				CLE		CAT			
<i>Gambelia speciosa</i> Nutt.				CLE		CAT			
<i>Keckella cordifolia</i> (Benth.) Straw				CLE		CAT			
<i>Kickxia elatine</i> (L.) Dumort.*					CAT ¹⁸⁹		ROS	CRU	ANA
<i>Linaria bipartita</i> (Vent.) Willd.*					CAT				
<i>Nuttallanthus texanus</i> (Scheele)					CAT				
D.A. Sutton				CLE		ROS	CRU	ANA	MIG
<i>Veronica anagallis-aquatica</i> L.*							CAT		
<i>Plantago coronopus</i> L.*			NIC	CAT		ROS	CRU	ANA	MIG
<i>Plantago elongata</i> Pursh					CAT	ROS	CRU	ANA	MIG
<i>Plantago erecta</i> E. Morris				CLE	CAT ¹⁹⁰		CRU		
<i>Plantago lanceolata</i> L.*			NIC	CAT					
<i>Plantago major</i> L.*									
<i>Plantago maritima</i> L.									
<i>Plantago ovata</i> Forssk.									
<i>Plantago subnuda</i> Pilg.*									
Plantanaceae									
<i>Platanus racemosa</i> Nutt.							CAT*		

¹⁸⁵OBI: John Knapp, Denise Knapp, April 7, 2003
186SBIG: S. Boyd, T. Ross, L. Arnseth, Apr 8 1990-1291

¹⁸⁷Dave M. Thompson 2012. *Minulus*, in Jepson Flora Project (eds.), Jepson eFlora, accessed on May 7 2014

¹⁸⁸SBIG: R.F.Thorne & A.D. Propst 1974-09-12-45100
189SBIG: M.L. Hoefs, R.F.Thorne, J. Takara Jul 25 1995 2438
190SBIG: M.L. Hoefs, R.F.Thorne, Apr 6 1996 2671

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIC
Plumbaginaceae									
<i>Armeria maritima</i> (Mill.) Willd.	ssp. <i>californica</i> (Boiss.) A.E. Porsild	CLE? ¹⁹¹							
<i>Limonium californicum</i> (Boiss.) A. Heller*						ROS			
<i>Limonium perezii</i> (Stapf) ET. Hubb.*		CLE	CAT	CAT	CAT				
<i>Limonium sinuatum</i> (L.) Mill.*			CAT	CAT	CAT				
Polemoniaceae									
<i>Allophyllum glutinosum</i> (Benth.) A.D. Grant & V.E. Grant		CLE	CAT	CAT	CAT				
<i>Eriastrom filifolium</i> (Nutt.) Wooton & Standl.		CLE	CAT	CAT	CAT				
<i>Gilia achilleifolia</i> Benth.	ssp. <i>multicaulis</i> (Benth.) V.E. Grant & A.D. Grant	CLE	CAT	CAT	CAT				
<i>Gilia angustifolia</i> V.E. Grant			CAT	CAT	CAT				
<i>Gilia capitata</i> Sims	ssp. <i>abrotanifolia</i> (Greene) V.E. Grant	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIC
<i>Gilia elatiorum</i> (Leps.) V.E. Grant				CAT	BAR	ROS	CRU	ANA	
<i>Gilia nevinii</i> A. Gray	ssp. <i>hoffmannii</i> (Eastw.) A.D. Grant & V.E. Grant	CLE	CAT	CAT	BAR	ROS	CRU	ANA	
<i>Gilia tenuiflora</i> Benth.				CAT	BAR	ROS	CRU	ANA	
<i>Leptosiphon bicolor</i> Nutt.					CAT				
<i>Leptosiphon parviflorus</i> (Brand.) <i>Leptosiphon pygmaeus</i> (Brand.)	ssp. <i>pygmaeus</i>	CLE							
J.M. Porter & L.A. Johnson									
<i>Linanthus dianthiflorus</i> (Benth.) Greene		CLE	CAT	CAT	CAT				
<i>Navarretia atracyloides</i> (Benth.) Hook. & Arn.									
<i>Navarretia hamata</i> Greene	ssp. <i>leptantha</i> (Greene) H. Mason	CLE	CAT	CAT	CAT				
Polygalaceae									
<i>Polygala californica</i> Nutt.									
<i>Chorizanthe staticoides</i> Benth.		CAT							
<i>Chorizanthe wheeleri</i> S. Watson									
<i>Eriogonum arboreum</i> Greene									
<i>Eriogonum cinereum</i> Benth.									
<i>Eriogonum fasciculatum</i> Benth.*	var. <i>fasciculatum</i>								
<i>Eriogonum fasciculatum</i> Benth.*	var. <i>polifolium</i> (Benth.) Torr. & A. Gray								
<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	CAT	CAT				
<i>Eriogonum giganteum</i> S. Watson	var. <i>giganteum</i>								
<i>Eriogonum grande</i> Greene	var. <i>grande</i>	CLE	CAT	CAT	CAT				

¹⁹¹Pers. com. E. Howe192SBPG: S.A. Junak, T. Murphy, SN-432, Feb 21, 1990
193HSC: 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	var. <i>rubescens</i> (Greene) Munz					ROS	CRU	ANA	MIG
<i>Eriogonum grande</i> Greene	var. <i>timorum</i> Reveal					ROS	CRU	CRU	
<i>Lastariaea coriacea</i> (Goodman) Hoover							CRU		
<i>Persicaria lapathifolia</i> (L.) Gray							CRU		
<i>Polygonum argenteoleon</i> Kunze*		CLE	NIC	CAT			CRU		
<i>Polygonum aviculare</i> L.*	ssp. <i>depressum</i> (Meisn.) Arcang. Fisch. & C.A. Mey.	CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Pterostegia drymarioides</i>		CLE	NIC	CAT	BAR	ROS	CRU	ANA	
<i>Rumex acetosella</i> L.*		CLE ¹⁹⁴		CAT		ROS	CRU	CRU	
<i>Rumex conglomeratus</i> Murray*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
<i>Rumex crispus</i> L.*				CAT			CRU		
<i>Rumex fueginus</i> Phil.				CAT			CRU		
<i>Rumex obtusifolius</i> L.*				NIC			CRU		
<i>Rumex pulcher</i> L.*						ROS	CRU		MIG
<i>Rumex salicifolius</i> Weinm.							CRU		
Portulacaceae					CAT				
<i>Portulaca oleracea</i> L.*		CLE	NIC	CAT		ROS	CRU	ANA	MIG
Primulaceae							CRU		
<i>Dodecatheon clevelandii</i> Greene	ssp. <i>insulare</i> H.J. Thoms.								
Ranunculaceae									
<i>Clematis lasiantha</i> Nutt.					CAT			CRU	
<i>Clematis ligusticifolia</i> Nutt.						ROS	CRU	CRU	
<i>Clematis pauciflora</i> Nutt.						ROS	CRU	CRU	
<i>Delphinium parryi</i> A. Gray					CAT		CRU	ANA	MIG
<i>Delphinium parryi</i> A. Gray	ssp. <i>parryi</i>				CAT		CRU		
<i>Delphinium variegatum</i> Torr. & A. Gray	ssp. <i>kirkense</i> (Munz) M.J. Warnock	CLE							
<i>Delphinium variegatum</i> Torr. & A. Gray	ssp. <i>thornei</i> Munz	CLE		CAT		ROS	CRU		MIG
<i>Ranunculus californicus</i> Benth.				CAT					
<i>Ranunculus hebecarpus</i> Hook. & Arn.									
Resedaceae									
<i>Oligomeris linifolia</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		ROS	CRU		
<i>Frangula californica</i> (Eschsch.) A. Gray	ssp. <i>californica</i>	CLE		CAT		ROS	CRU		MIG&
Rosaceae									
<i>Adenostoma fasciculatum</i> Hook. & Arn.	var. <i>fasciculatum</i>	CLE		CAT		ROS	CRU		

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

¹⁹⁵Synonym: *Potentilla glandulosa* Lindl.

196UC: Tim Ross, 6/23, Apr 22 1993

197SBG: S.A. Jumak, M.L. Hoels, K. Kirkland Jul 17 1998 SCa-760

APPENDIX 2. Continued

Family/species	ssp./var. and infraname	CLE	NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Salix lasiandra</i> Benth.	var. <i>lasiandra</i>	CLE ¹⁹⁸	NIC	CAT		ROS	CRU	CRU	
<i>Salix lasiolepis</i> Benth.						ROS	CRU	ANA	MIG
Sapindaceae						ROS	CRU	CRU	
<i>Acer macrophyllum</i> Pursh						ROS	CRU	CRU	
Saxifragaceae						ROS	CRU	CRU	
<i>Heuchera maxima</i> Greene						ROS	CRU	ANA	
<i>Jepsonia malvifolia</i> (Greene) Small						ROS	CRU	CRU	
<i>Lithophragma affine</i> A. Gray						ROS	CRU	CRU	
<i>Lithophragma cymbalaria</i> Torr. & A. Gray						ROS	CRU	CRU	
<i>Lithophragma maximum</i> Bacig.		CLE							
<i>Micranthes californica</i> (Greene) Small ¹⁹⁹		CLE ²⁰⁰							
Saxifragariaceae									
<i>Myoporum laetum</i> G. Forrest *		CLE ²⁰¹	NIC						
<i>Scrophularia californica</i>						ROS			
Cham. & Schldl.									
<i>Scrophularia villosa</i> Pennell			CLE	CAT					
<i>Verbascum thapsus</i> L.*							CRU		
Solanaceae									
<i>Datura wrightii</i> Regel		CLE ^{202*}		CAT					
<i>Lycium brevipes</i> Benth.		CLE	NIC	CAT&			ROS	CRU	
<i>Lycium californicum</i> Nutt.		CLE	NIC	CAT					
<i>Lycium fremontii</i> A. Gray									
<i>Lycium verrucosum</i> Eastw.									
<i>Lycopersicum esculentum</i> Mill.*		CLE ²⁰³	NIC	CAT ²⁰⁴	BAR&				
<i>Nicotiana clevelandii</i> A. Gray				CAT ²⁰⁵	BAR				
<i>Nicotiana glauca</i> Graham*		CLE ²⁰⁶	NIC	CAT					
<i>Nicotiana quadrivalvis</i> Pursh				CAT ²⁰⁷					
<i>Petunia parviflora</i> Juss.									
<i>Solanum americanum</i> Mill.*		CLE ²⁰⁸	NIC						
<i>Solanum douglasii</i> Dunal		CLE	NIC	CAT	BAR	ROS	ROS ²⁰⁹	ANA	MIG

¹⁹⁸Pers. com. E. Howe1985synonym: *Saxifraga californica* Greene

200SBIG: S.A. Junak Mar 13 1987 SCI-770

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

202Pers. com. E. Howe

203Pers. com. E. Howe

204RSA: R.F. Thorne, 473SL, Sep 4 1975

205RSA: Blanche Trask Mar 1901 s.n.

206Pers. com. E. Howe

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

208SBIG: H.L. Ferguson, R.M. Beauchamp Sep 15 1979

209SBIG: S.A. Junak Sep 23 1988 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	CAT			ROS	CRU	CRU	
<i>Solanum wallacei</i> (A. Gray) Parish		CAT	CAT			ROS	CRU	CRU	
Tamaricaceae									
<i>Tamarix aphylla</i> (L.) H. Karst.*		CLE ²¹⁰	CAT ²¹¹						
<i>Tamarix chinensis</i> Lou* ²¹²		CLE	NIC			ROS	CRU	ANA	MIG
<i>Tamarix parviflora</i> DC.*									
<i>Tamarix ramosissima</i> Ledeb.*									
Theophrastaceae									
<i>Samolus parviflorus</i> Raf.		CAT	CAT						
Tropaeolaceae									
<i>Tropaeolum majus</i> L.*		CLE ²¹²	CAT	BAR&					
Ulmaceae									
<i>Ulmus hollandica</i> Mill.*									
Urticaceae									
<i>Hesperomeide tenella</i> Torr.		CLE	NIC	CAT	BAR	ROS	CRU	CRU	
<i>Parietaria hespera</i> Hinton			NIC	CAT	BAR	ROS	CRU	ANA	MIG
<i>Soleirolia soleirolii</i> (Reed.) Dandy*									
<i>Urtica dioica</i> L.									
<i>Urtica urens</i> L.*									
Valerianaceae									
<i>Centranthus ruber</i> (L.) DC.*		CAT							
<i>Plectritis ciliosa</i> (Greene) Jeps.									
Verbenaceae									
<i>Phyla nodiflora</i> (L.) Greene*		CLE ²¹³	CAT						
<i>Verbena bracteata</i> Lag. & Rodr.		CLE ²¹⁵	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					
Violaceae									
<i>Viola pedunculata</i> Torr. & A. Gray		CLE	CAT						
Vitaceae									
<i>Vitis girdiana</i> Munson		CAT							
Zygophyllaceae									
<i>Tribulus terrestris</i> L.*		CAT ²¹⁶							
NUMBER OF SPECIES		436	279	633	150	519	662	271	296

²¹⁰pers. com. E. Howe²¹¹RSA: R.F. Thorne, 45759, Mar 22 1975²¹²UCR: TS. Ross, 5134, May 22 1991²¹³SBG: H.L. Ferguson Mar 12 1981 234²¹⁴SBG: S.A. Junak, R.N. Philbrick, M.C. Hochberg SC-63, May 9 1979²¹⁵RSA: E. Kellogg Jun 28 1982 s.n.²¹⁶SBG: S.A. Junak, K. Kirkland, M. Bushman Oct 21 1998 SCa-815