Revised and updated vascular plant checklists for the Baja California Northern Pacific Islands

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ABSTRACT.—In the last 3 years, significant advances have occurred in our knowledge of the flora of the northern Baja California Pacific Islands. The availability of herbarium specimen data has been significantly increased, and 2 expeditions were undertaken to 7 of the 8 islands in 2015 and 2016. These events have resulted in a wealth of new plant records from the islands, which are here reported with updated taxonomy for the archipelago. The results include 586 vascular plant taxa on the Baja California Northern Pacific Islands; 118 taxa were new, and 54 previously reported taxa were vouchered. The checklists include the nativity of the taxa and highlight new records discovered through fieldwork, as well as those that were hidden in herbaria until now. The declaration of these islands as a new UNESCO Biosphere Reserve in late 2016 makes these new records of particular conservation importance, bettering our baseline understanding of these islands' ecosystems.

RESUMEN.—En los últimos tres años, han ocurrido importantes avances en nuestro conocimiento sobre la flora de las Islas del Pacífico de Baja California. La información disponible de especímenes de herbarios ha incrementado significativamente, además de, dos expediciones que se llevaron a cabo en siete de las ocho islas en 2015 y 2016. Estos sucesos dieron lugar al enriquecimiento de nuevos registros de plantas de las islas, los cuales son reportados aquí, junto a la taxonomía actualizada del archipiélago. Los resultados incluyen 586 taxones de plantas vasculares de las Islas del Pacífico de Baja California Norte, incluyendo 118 nuevos taxones y 54 taxones adicionales que están siendo verificados. Las listas comprenden la procedencia de los taxones, destacando nuevos registros descubiertos a partir de trabajo de campo, así como aquellos taxones que, hasta la fecha, habían permanecido ocultos en herbarios. La declaración de estas islas como una nueva Reserva de la Biosfera a fines de 2016, hizo a estos nuevos registros de particular importancia en la conservación, mejorando nuestro entendimiento de los ecosistemas de estas islas.

The Baja California Northern Pacific Islands consist of 8 island complexes: Coronado, Todos Santos, San Martín, San Jerónimo, Guadalupe, San Benito, Cedros, and Natividad. Seven of these island complexes (all but Guadalupe Island) are nearshore continental shelf or land-bridge islands, which were previously connected to the mainland. (Note: San Roque, Asunción, Santa Margarita, and Magdalena Islands [Baja California Sur] are sometimes included in this archipelago but are not addressed in this paper.) These islands are of particular interest to biologists for many reasons, including (1) their significant recovery after the removal of nonnative species (e.g., Tershy et al. 1997, Garcillán et al. 2008, Aguirre-

Muñoz et al. 2008, 2011, Rodríguez-Malagón et al. 2010); (2) the presence of many endemic species (e.g., Mellink 1992, Vanderplank and Mata 2010), with endemic island faunal taxa including 15 reptiles, 8 birds, and 11 mammals (Vanderplank et al. 2017); and (3) their proximity to the California Channel Islands and shared island floras (e.g., Ratay et al. 2014).

Biological research on the Baja California Pacific Islands began in the 1800s with visitors such as Thomas Streets (1875), soon followed by Charles Pond, Edward Palmer (1888–1889), Alfred Anthony, and Townshend Brandegee (1900), all of whom collected specimens. Since then, a series of botanists have made significant collections on the islands including Reid

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Moran, Steve Junak, Ralph Philbrick, Michael Benedict, and Jon Rebman. Junak and Philbrick published several island floras (Junak and Philbrick 1994a, 1994b, 2002a, 2002b), and Tom Oberbauer published on the floras of Coronado and Cedros (Oberbauer 1987, 2002a, 2002b). Jon Rebman and others updated the vascular plant checklist for Guadalupe Island (Rebman 2006, Rebman et al. 2007). In 1985 a compilation of the vascular plant floras of the California and Baja California Islands was published (Wallace 1985), and most recently, in 2014, Ratay et al. updated and revised the checklists and their taxonomy for the Channel Islands and Baja California Islands, including many new records, but without extensive fieldwork or herbarium searches.

In December 2016, the Mexican government declared these islands part of a new Natural Protected Area for the Pacific Islands of Baja California (which included Adelaida, Los Alijos, and Bahía Magdalena). To assist in the renewed conservation efforts on these magnificent microcosms, we hereby present updated plant checklists for each island, including notes on nativity and endemism.

Many historical specimens have been buried in regional herbaria, but in 2014 the Consortium of California Herbaria received a supplemental grant from the National Science Foundation to the funded collaborative proposal “Harnessing the power of herbaria to understand the changing flora of California: a biodiversity hotspot in peril.” The funding allowed digitization of more than 20,000 herbarium specimens from northwestern Baja California, held at 4 herbaria in the USA (Rancho Santa Ana Botanic Garden and Pomona College herbarium [RSA-POM], Santa Barbara Botanic Garden herbarium [SBBG], California Academy of Sciences and the Dudley Herbarium [CAS-DS], and the University of California and Jepson Herbaria [UC-JEPS]), including specimens from the Baja California Pacific Islands. This wealth of new data has improved our knowledge of the island floras, and to update the available field data on the floras of these islands, 2 major botanical expeditions were taken to the land-bridge islands in 2015 and 2016.

METHODS

The checklist of Ratay et al. (2014) was used as a starting point, and 2 expeditions

(2015 and 2016) were undertaken to record and document new species and collect reported taxa that lacked voucher specimens. Researchers spread out in a targeted search for new plant occurrences on the land-bridge islands. New occurrences are vouchered and in process of accession at the herbaria of the Autonomous University of Baja California in Ensenada (BCMEX), the San Diego Natural History Museum (SD), and the Botanical Research Institute of Texas (BRIT). For the flora of Guadalupe Island, new records are minimal, because an intensive botanical collecting expedition has not been conducted since 2010. The known flora is included here for comparative purposes, although it should be noted that there may be additional new records on Guadalupe Island to which the authors did not have access.

Herbarium searches revealed numerous new taxa for Cedros Island in particular, and visits by the authors to the RSA, CAS, UC, and SBBG herbaria were particularly helpful in the identification of new herbarium voucher specimens. Taxonomy follows Rebman et al. (2016), which is an annotated plant checklist for the Baja California region. Ambiguous infraspecific taxa have been removed, and many plants previously known only in the literature have had voucher specimens added.

RESULTS AND DISCUSSION

In total, the islands are home to 586 plants including 492 native taxa and 94 nonnative taxa (Appendix 1). Hybrid taxa are included as species in the calculations that follow.

When the total species richness of the islands was plotted against the island total area, we found that the species-area relationship had a slope of 0.3 on a log-log scale, as predicted by McArthur and Wilson's classical model of island biogeography (MacArthur and Wilson 1967). However, we also found that some islands differed significantly from the model predictions (Fig. 1). San Jerónimo and, to a lesser degree, Guadalupe are depauperate islands with significantly lower species richness than predicted by the model, while Coronado, Todos Santos, and, to a lesser degree, San Martín, are significantly speciose islands with a significantly higher richness than predicted by the model.

The northern Baja California Pacific Islands remain an area of particular interest

Fig. 1. Species-area relationship for the Baja California Northern Pacific Islands, plotted on a log-log scale: (a) total flora and (b) natives only. The regression lines show the predictions of the MacArthur and Wilson (1967) model. In both data sets the results are similar: islands marked by white symbols (San Jerónimo and Guadalupe) are significantly depauperate for their areas (i.e., they lie significantly below the model line according to a Poisson distribution model). Islands marked by black symbols (Coronado, Todos Santos, and San Martín) are significantly speciose for their areas.

for floristicians, with new records continuing to be found. The expeditions of 2015 and 2016, combined with historical specimen searches, revealed a total of 53 new plant taxa in the known flora of the Baja California Pacific Island Archipelago. The addition of 118 new records on individual islands is a significant improvement in our knowledge of the flora, and the vouchering of 54 additional taxa confirms early reports of these floristic elements. The availability of these 172 total vouchered taxa in regional herbaria will better our understanding of the islands and improve taxonomic study of the island populations.

The highest numbers of total vascular plant taxa (and native plant taxa) are found on the largest 2 islands, Cedros and Guadalupe, respectively (Table 1). A significantly high number of new records were added to Cedros, perhaps due to its sheer size and general inaccessibility. The high numbers of new taxa from the Coronado Islands and Natividad reflect

the additional access challenges and lack of botanical visitation in recent years.

The total species richness by area is highest in the northern islands, which receive considerably more rainfall than the southern islands, particularly in El Niño years (Caso et al. 2007). The percentage of nonnative taxa shows a similar decline, with the anomaly of San Jerónimo Island, which exhibits the highest percentage of nonnative plants—almost half of its small flora (5 of 12 taxa). The San Benito Islands currently have the lowest recorded numbers of nonnative plants (14%), perhaps in part due to their southerly position and aridity. Although Natividad has a higher percentage of nonnatives (21%), the majority are at this time restricted to the village. The percentage of nonnative plant taxa on the islands (16%) is higher than that of the adjacent peninsula (10.9%; Rebman et al. 2016). As summarized in Table 2, the highest numbers of endemic plants are found on the oceanic island of Guadalupe, which has more single-island endemics (Table 1) than all the other islands combined and displays the highest endemic density at 9.6/km². The small island complexes of San Benito and Coronado have endemic densities of 6.0/km² and 5.1/km², respectively. Fig. 1 shows that San Jerónimo and Guadalupe Island have significantly more depauperate native and total floras. On Guadalupe, the depauperate flora is likely a result of the distance from the mainland, the severe history of nonnative grazers, and a lack of intensive floristic study in recent years of recuperation. On San Jerónimo, it likely results from heavy guano deposits and the history of guano extraction. The 3 northernmost islands (Coronado, Todos Santos, and San Martín) show higher floristic diversity, which is probably a result of higher mean annual rainfall and proximity to the coast (and prior connection to the coast for Coronado and Todos Santos).

At a time when the islands are receiving increased protection and management, it is particularly important to have a strong baseline of floristic knowledge. Conservation continues to be challenging on these islands (Mellink 1993), and a wealth of rare and endemic species from northwestern Baja California are found on these islands (Rebman et al. 2016, O'Brien et al. in press). Advances in data sharing and informatics (e.g., the Baja California Botanical Consortium and the

TABLE 1. The northern Baja California Pacific Islands (from north to south), island size, distance from adjacent mainland (if the island is closest to another island, the interisland distance is noted in parentheses), total number of plant taxa, plant taxa added to the islands in this publication (number in parentheses represents the taxa previously reported for which vouchers were located), nonnative plant taxa, plant taxa endemic to just that one island, and insular endemic taxa present. Note that the combined island values for total taxa and nonnative taxa are not cumulative because some taxa occur on multiple islands.

Island	Size (km ²)	Distance from land (km)	Total taxa	New taxa added (vouchers)	Nonnatives	Island endemics	Single island endemics
Coronado	1.7	13.5	160	29 (4)	45	6	3
Todos Santos	2.5	6.25	156	11 (1)	37	1	0
San Martín	2.5	5	113	7 (1)	19	3	1
San Jerónimo	0.5	9	12	6 (0)	5	1	0
Guadalupe	246	157	234	3 (2)	49	50	38+
San Benito	3.9	67 (28)	62	4 (7)	9	9	3
Cedros	350	12 (16)	307	37 (41)	51	21	15
Natividad	7	6	98	18 (1)	21	4	1
ALL ISLANDS	614		[586]	115 (57)	[94]	83	60+

TABLE 2. Numbers of total, native, and endemic taxa per square kilometer (km²), and percentages of native taxa on each island. Because of the nonlinear relationship between species richness and island area, the floristic density of each island was standardized to an area of 1 km² using MacArthur and Wilson's (1967) species area model: floristic density = $S/A^{0.3}$.

Island	Natives (%)	Floristic density (species/km ²)		
		Total taxa	Natives	Endemics
Coronado	71.9	136.5	98.1	5.1
Todos Santos	76.3	118.5	90.4	0.8
San Martín	83.2	85.8	71.4	2.3
San Jerónimo	58.3	14.8	8.6	1.2
Guadalupe	79.1	44.9	35.5	9.6
San Benito	85.5	41.2	35.2	6.0
Cedros	83.4	53.0	44.2	3.6
Natividad	78.6	54.7	42.9	2.2
ALL ISLANDS	84.0	85.4	71.7	12.1

Consortium of California Herbaria, which now includes records from the California Floristic Province) have significantly furthered our knowledge of the island floras. Regular botanical exploration of the islands is necessary to understand changes in the island floras, search for new occurrences of plant taxa (both native and nonnative) in different years, and monitor the long-term recovery of island ecosystems following the eradication of nonnative mammals.

CONCLUSION

With increased study, our knowledge of the flora of the Baja California Pacific Islands continues to increase. In this study new records were added to each of the land-bridge islands, with the greatest number coming from the northernmost and southernmost islands and appearing to be mostly dictated by ease of

access. The percentage of nonnative species is comparatively higher than the regional average on all islands. Total floristic diversity and endemism are highest on the largest islands, with the oceanic island of Guadalupe being home to the greatest endemism. Continued study of these islands will doubtlessly reveal additional taxa, inform conservation efforts, and assist management efforts in the newly created biosphere reserve.

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APPENDIX 1. Red shading indicates a new taxon; green shading indicates a specimen located for a previously reported taxon; a question mark (?) indicates that no specimen is known; an asterisk (*) indicates a native species. When a taxon was previously listed, it appears as the island acronym^a (e.g., COR = Coronado). For new records, those accessioned in herbaria are listed with the herbarium acronym^b (e.g., SD = San Diego Natural History Museum) preceding the accession number. See Index Herbariorum (sweetgum.nybg.org/science/ih) for a full inventory of herbarium acronyms. Numbers that are not preceded by acronyms represent recent collection numbers, and the initials of the collector (JR = Jon Reberman, SV = Sula Vanderplank) appear after the collection number; these specimens are being processed for deposition at the herbarium of the Universidad Autónoma de Baja California (BCMEX) and the San Diego Natural History Museum (SD). Photo vouchers can be found in the online repository at bajafloora.org. See page 698 for table footnotes indicated by superscripted letters.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Agavaceae	<i>*Agave americana</i> L.		SD photo voucher						
Agavaceae	<i>Agave sebastiana</i> Greene						SAB	CED	NAT
Agavaceae	<i>Agave shawii</i> Englem.		TOS						
Agavaceae	<i>Yucca valida</i> Brandege							CED	
Alzooaceae	<i>*Carpobrotus chilensis</i> (Molina) N.E. Br.	COR	TOS						29693 JR
Alzooaceae	<i>*Mesembryanthemum crystallinum</i> L.	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Alzooaceae	<i>*Mesembryanthemum nodiflorum</i> L.	COR	TOS	SAM	5571 SV	GUA	SAB	CED	NAT
Amaranthaceae	<i>Anaranthus torreyi</i> (A. Gray) S. Watson							29710 JR	
Anacardiaceae	<i>Malosma laurina</i> (Nutt. in Torr. & A. Gray) Nutt.		TOS			GUA		5669 SV	
Anacardiaceae	<i>Pachycormus discolor</i> (Benth.) Cov. var. <i>veatchiana</i> (Kell.) Gentry							CED	NAT
Anacardiaceae	<i>Rhus integrifolia</i> (Nutt.) Brewer & S. Watson	SD 192917	TOS			GUA			
Anacardiaceae	<i>Rhus integrifolia</i> × <i>lentii</i>								
Anacardiaceae	<i>Rhus lentii</i> Kell.								
Apiaceae	<i>Apiastrum angustifolium</i> Nutt. in Torrey & A. Gray	COR	TOS						
Apiaceae	<i>Boulesia incana</i> Ruiz & Pav.								
Apiaceae	<i>*Coriandrum sativum</i> L.	COR	TOS			GUA			
Apiaceae	<i>Daucus pusillus</i> Michaux								
Apiaceae	<i>*Foeniculum vulgare</i> Mill.					GUA			
Apiaceae	<i>Lomatium insulare</i> (Eastw.) Munz.					GUA			
Apiaceae	<i>Yabea microcarpa</i> (Hook. & Arn.) Koso-Pol.					GUA			
Apocynaceae	<i>Asclepias subulata</i> Decne. in A. DC.								
Apocynaceae	<i>Metastelma californicum</i> Benth.								
Apocynaceae	<i>*Nerium oleander</i> L.							5589 SV	
Araliaceae	<i>Hydrocotyle umbellata</i> L.					GUA			
Araceae	<i>Brathea edulis</i> H. Wendl. ex S. Watson					GUA			
Asteraceae	<i>Agoseris heterophylla</i> (Nutt.) Greene					GUA			
Asteraceae	<i>Anaoria rotundifolia</i> Benth.								
Asteraceae	<i>Amblyopappus pusillus</i> Hook. & Arn.	COR	TOS	SAM		GUA	SAB	CED	NAT
Asteraceae	<i>Ambrosia camphorata</i> (Greene) Payne			SAM?		GUA		CED	

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Asteraceae	<i>Ambrosia chamissonis</i> (Less.) Greene			SAM				CED?	
Asteraceae	<i>Ambrosia chenopodiifolia</i> (Benth.) Payne		TOS					CED	NAT
Asteraceae	<i>Ambrosia magdalenae</i> (Brandegge) Payne							CED	
Asteraceae	<i>Artemisia californica</i> Less.	COR	TOS			GUA		CED	
Asteraceae	<i>Artemisia douglasiana</i> Besser							5652 SV	
Asteraceae	<i>Baccharis sarothroides</i> A. Gray	COR						CED	
Asteraceae	<i>Baeropsis guadalupensis</i> J.T. Howell	5560 SV				GUA			
Asteraceae	<i>Bahipopsis lachnata</i> A. Gray		TOS				SAB	CED	NAT
Asteraceae	<i>Bahipopsis lanata</i> Kell.							CED	NAT
Asteraceae	<i>Bebbia juncea</i> (Benth.) Greene var. <i>juncea</i>							CED	
Asteraceae	<i>Brickellia microphylla</i> (Nutt.) A. Gray var. <i>microphylla</i>							CAS 180	
Asteraceae	* <i>Centaurea melitensis</i> L.		TOS			GUA		CED	NAT
Asteraceae	<i>Chaenactis lacera</i> Greene								
Asteraceae	<i>Chaenactis glabruscula</i> DC. var. <i>glabruscula</i>	COR							NAT
Asteraceae	<i>Coriocarpus involutus</i> Greene								
Asteraceae	<i>Deinandra fasciculata</i> (DC.) Greene		TOS					CED	
Asteraceae	<i>Deinandra frutescens</i> (A. Gray) B.G. Baldwin					GUA			
Asteraceae	<i>Deinandra greeneana</i> (Rose) B.G. Baldwin					GUA			
Asteraceae	<i>Deinandra palmieri</i> (Rose) B.G. Baldwin					GUA			
Asteraceae	<i>Deinandra palmieri</i> × <i>D. greeneana</i>								
Asteraceae	<i>Deinandra peninsularis</i> (Moran) B.G. Baldwin		TOS						
Asteraceae	<i>Deinandra streetii</i> (A. Gray) B.G. Baldwin						SAB		
Asteraceae	<i>Encelia asperifolia</i> (S.F. Blake) Clark & Kyhos						SAB		
Asteraceae	<i>Encelia californica</i> Nutt.	COR	TOS	SAM				CED	
Asteraceae	<i>Encelia palmieri</i> Vasey & Rose								NAT
Asteraceae	<i>Encelia stenophylla</i> Greene							CED	
Asteraceae	<i>Ericameria brachylepis</i> (A. Gray) Hall							CED	
Asteraceae	* <i>Erigeron bonariensis</i> L.								29684 JR
Asteraceae	* <i>Erigeron sumatrensis</i> Retz.								
Asteraceae	<i>Eriophyllum confertiflorum</i> (DC.) A. Gray	COR				GUA			
Asteraceae	<i>Eriophyllum lanatum</i> (Pursh) J. Forbes var. <i>grandiflorum</i> (A. Gray) Jeps.								
Asteraceae	* <i>Glebionis coronaria</i> (L.) Cass. ex Spach	5509 SV	TOS						
Asteraceae	<i>Gundlachia diffusa</i> (Benth.) G.L. Nesom					GUA		CED	
Asteraceae	<i>Gutierrezia ramulosa</i> (Greene) M.A. Lane							CED?	
Asteraceae	<i>Gutierrezia sarothrae</i> (Pursh) Britton & Rusby							CED	
Asteraceae	<i>Hazardia berberidis</i> (A. Gray) Greene	COR	TOS						
Asteraceae	<i>Hazardia cana</i> (A. Gray) Greene					GUA			

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Asteraceae	<i>Hazardia orcuttii</i> (A. Gray) Greene	COR							
Asteraceae	* <i>Hypochaeris glabra</i> L.	5513 SV	TOS			GUA		CED?	
Asteraceae	<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom var. <i>menziesii</i>		TOS					CED	
Asteraceae	<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom var. <i>tridentata</i> (Greene) G.L. Nesom							5597 SV	
Asteraceae	<i>Isocoma menziesii</i> (Hook. & Arn.) G.L. Nesom var. <i>vernionoides</i> (Nutt.) G.L. Nesom		SD					CED	
Asteraceae	<i>Iva hayesiana</i> A. Gray		102379					CED	
Asteraceae	* <i>Lactuca serriola</i> L.	5559 SV							
Asteraceae	<i>Lasthenia coronaria</i> (Nutt.) Ornduff	COR	TOS			GUA			
Asteraceae	<i>Lasthenia gracilis</i> (DC.) Greene	COR	TOS			GUA		CED?	
Asteraceae	<i>Layia platyglossa</i> (Fisch. & Mey.) A. Gray					GUA			
Asteraceae	<i>Leptosyne gigantea</i> Kellogg					GUA			
Asteraceae	<i>Leptosyne maritima</i> (Nutt.) A. Gray	COR	TOS	SAM					
Asteraceae	<i>Logfia arizonica</i> (A. Gray) Holub					GUA		CED	
Asteraceae	<i>Logfia flaginoides</i> (Hook. & Arn.) Morefield							5615 SV	
Asteraceae	* <i>Logfia gallica</i> (L.) Coss. & Germ.	5552 SV	TOS			GUA		CED	
Asteraceae	<i>Malacothrix clelandii</i> A. Gray	5556 SV				GUA			
Asteraceae	<i>Malacothrix foliosa</i> A. Gray	COR							
Asteraceae	<i>Malacothrix insularis</i> Greene	COR							
Asteraceae	<i>Malacothrix similis</i> Davis & Raven	COR	TOS					CED	
Asteraceae	<i>Matricaria occidentalis</i> Greene					GUA			
Asteraceae	<i>Micropus californicus</i> Fisch. & C.A. Mey.					GUA			
Asteraceae	<i>Perityle californica</i> Benth.								
Asteraceae	<i>Perityle emoryi</i> Torrey	COR	TOS	SAM		GUA	SAB	CED	NAT
Asteraceae	<i>Perityle incana</i> A. Gray					GUA	SAB		
Asteraceae	<i>Pluchea odorata</i> (L.) Cass. var. <i>odorata</i>								
Asteraceae	<i>Porophyllum gracile</i> Benth.							CED	
Asteraceae	<i>Pseudognaphalium beneolens</i> Davidson							CED	
Asteraceae	<i>Pseudognaphalium biolettii</i> Anderberg		TOS			GUA			
Asteraceae	* <i>Pseudognaphalium luteo-album</i> (L.) Hilliard & B.L. Burt	5501 SV	TOS	SAM		GUA		CED	
Asteraceae	<i>Pseudognaphalium microcephalum</i> Nutt.	COR							
Asteraceae	<i>Pseudognaphalium ramosissimum</i> Nutt.	COR							
Asteraceae	<i>Pseudognaphalium</i> sp. nov.								
Asteraceae	<i>Pseudognaphalium stramineum</i> (Kunth) Anderb.					GUA			
Asteraceae	<i>Rafinesquia californica</i> Nutt.					GUA		CED	
Asteraceae	<i>Senecio aphanactis</i> Greene	COR	TOS	SAM				CED	

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Asteraceae	<i>Senecio cedrosensis</i> Greene								
Asteraceae	<i>Senecio lyonii</i> A. Gray			SAM			SAB SAB	CED	
Asteraceae	<i>Senecio palmeri</i> A. Gray					GUA			
Asteraceae	* <i>Sonchus oleraceus</i> L.	COR	TOS	SAM		GUA		CED	NAT
Asteraceae	* <i>Sonchus tenerrimus</i> L.	COR	TOS	SAM		GUA	SAB	CED	NAT
Asteraceae	<i>Stebbinsoseris heterocarpa</i> (Nutt.) Chambers		TOS						
Asteraceae	<i>Stephanomeria diegenis</i> Gottlieb								
Asteraceae	<i>Stephanomeria guadalupensis</i> Brandegee								
Asteraceae	<i>Trixis californica</i> Kell. var. <i>californica</i>						SAB	CED	
Asteraceae	<i>Uropappus lindleyi</i> (DC.) Nutt.	COR	TOS	SAM		GUA		CED	
Asteraceae	<i>Verbesina dissita</i> A. Gray		TOS						
Asteraceae	<i>Verbesina encelioides</i> (Cav.) A. Gray ssp. <i>encelioides</i>								29685 JR
Asteraceae	<i>Verbesina hastata</i> Kell.							CED	
Boraginaceae	<i>Ansinckia inepta</i> J.F. Macbr.			SAM					
Boraginaceae	<i>Ansinckia intermedia</i>							5602 SV	
Boraginaceae	<i>Ansinckia menziesii</i> (Lehm.) Nels. & Macbr.		TOS			GUA		CED	
Boraginaceae	<i>Cryptantha barbiger</i> (A. Gray) Greene var. <i>barbiger</i>							CED	
Boraginaceae	<i>Cryptantha clevelandii</i> Greene		TOS						
Boraginaceae	<i>Cryptantha foliosa</i> Reiche					GUA			
Boraginaceae	<i>Cryptantha intermedia</i> (A. Gray) Greene var. <i>intermedia</i>	COR	TOS	SAM					
Boraginaceae	<i>Cryptantha intermedia</i> (A. Gray) Greene var. <i>johnstonii</i> J.F. Macbr.	5542 SV							
Boraginaceae	<i>Cryptantha maritima</i> (Greene) Greene var. <i>cedrosensis</i> (Greene) I.M. Johnst.						CED		
Boraginaceae	<i>Cryptantha maritima</i> (Greene) Greene var. <i>maritima</i>	COR				GUA	SAB	CED	NAT
Boraginaceae	<i>Cryptantha patula</i> Greene						SAB	5605 SV (SD 25176) ^c	
Boraginaceae	<i>Harpagonella palmeri</i> A. Gray					GUA		5651 SV	
Boraginaceae	<i>Johnstonella angelica</i> (I.M. Johnst.) Hasenstab & M.C. Simpson							CED	
Boraginaceae	<i>Johnstonella grayi</i> (Nasey & Rose) Hasenstab & M.C. Simpson								
Boraginaceae	<i>Pectocarya linearis</i> DC. ssp. <i>ferocula</i> I.M. Johnst.					GUA		CED?	
Boraginaceae	<i>Pectocarya recurvata</i> I.M. Johnst.					GUA		CED	
Boraginaceae	<i>Plagiobothrys acanthocarpus</i> (Piper) I.M. Johnst.					GUA			
Boraginaceae	<i>Plagiobothrys collinus</i> (Philbr.) I.M. Johnst.					GUA			

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Boraginaceae	<i>Plagiobothrys collinus</i> (Philbr.) I.M. Johnston var. <i>californicus</i> (A. Gray) Higgins					GUA			
Boraginaceae	<i>Plagiobothrys collinus</i> (Philbr.) I.M. Johnston var. <i>gracilis</i> (I.M. Johnston) Higgins					GUA		CED	
Brassicaceae	<i>Athyas pusillus</i> (Hook.) Greene							CED 5620 SV (SD 251385) ^c	
Brassicaceae	* <i>Brassica nigra</i> (L.) W.D.J. Koch					GUA		CED	
Brassicaceae	* <i>Brassica rapa</i> L.							CED	
Brassicaceae	* <i>Brassica tournefortii</i> Gouan						SAB	CED	NAT
Brassicaceae	* <i>Cakile maritima</i> Scop.		TOS	SAM				CED	
Brassicaceae	* <i>Capsella bursa-pastoris</i> (L.) Medik.					GUA			
Brassicaceae	<i>Caulanthus heterophyllus</i> Payson var. <i>heterophyllus</i>								CED
Brassicaceae	<i>Caulanthus lasiophyllus</i> (Hook. & Arn.) Payson		TOS			GUA		CED	NAT
Brassicaceae	<i>Descurainia pinnata</i> (Walter) Britton var. <i>brachycarpa</i> (Richardson) Deding	SD 162773	TOS	SAM		GUA		CED	
Brassicaceae	<i>Descurainia pinnata</i> (Walter) Britton ssp. <i>glabra</i> (Wootton & Standl.) Delling	COR						CED	
Brassicaceae	<i>Draba cuneifolia</i> S. Watson var. <i>integrifolia</i> S. Watson							CED	
Brassicaceae	* <i>Eruca vesicaria</i> (L.) Cav. ssp. <i>sativa</i> (Mill.) Thell.					GUA		CED	
Brassicaceae	<i>Erysimum moranii</i> Rollins					GUA			
Brassicaceae	* <i>Hornungia procumbens</i> (L.) Hayek					GUA	SAB?		NAT
Brassicaceae	<i>Lepidium lasiocarpum</i> Nutt. var. <i>latifolium</i> C.L. Hitchc.			SAM?					
Brassicaceae	<i>Lepidium nitidum</i> Torrey & A. Gray		TOS			GUA		CED	NAT
Brassicaceae	<i>Lepidium oblongum</i> Small var. <i>insulare</i> C.L. Hitchc.	5543 SV	TOS	SAM		GUA	SAB	CED	
Brassicaceae	<i>Nasturtium officinale</i> W.T. Aiton							5703 SV	
Brassicaceae	* <i>Raphanus sativus</i> L.					GUA		CED	
Brassicaceae	<i>Silene angulorum</i> (S. Watson) Greene		TOS			GUA		CED	NAT
Brassicaceae	* <i>Sisymbrium trio</i> L.	COR	TOS			GUA		CED	
Brassicaceae	* <i>Sisymbrium orientale</i> L.					GUA		CED	
Brassicaceae	<i>Thysanocarpus erectus</i> S. Watson							CED	
Brassicaceae	<i>Thysanocarpus laciniatus</i> Nutt.							CED	
Cactaceae	<i>Bergerocactus emoryi</i> (Engelm.) Britton & Rose		TOS					CED	NAT
Cactaceae	<i>Cochemia poodii</i> (Greene) Walton							CED	
Cactaceae	<i>Cylindropuntia alcalhes</i> (F.A.C. Weber) F.M. Knuth var. <i>alcalhes</i>	COR		SAM				CED	

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Cactaceae	<i>Cylindropuntia cedrosensis</i> Rebmán								
Cactaceae	<i>Cylindropuntia cholla</i> (F.A.C. Weber) F.M. Knuth in Backeb. & F.M. Knuth						SAB	CED	NAT?
Cactaceae	<i>Cylindropuntia prolifera</i> (Engelm.) F.M. Knuth	COR	TOS	SAM SD 77934	5562 SV	GUA		CED?	NAT
Cactaceae	<i>Echinocereus maritimus</i> (M.E. Jones) K. Schum. var. <i>maritimus</i>			SAM				CED RSA 439026	NAT
Cactaceae	<i>Ferocactus chrysacanthus</i> (Orcutt) Britton & Rose								
Cactaceae	<i>Ferocactus fordii</i> (Orcutt) Britton & Rose var. <i>fordii</i>						SAB?	CED	
Cactaceae	<i>Ferocactus fordii</i> (Orcutt) Britton & Rose var. <i>grandiflorus</i> G.E. Linds.				SAM				NAT
Cactaceae	<i>Lophocereus schottii</i> (Engelm.) Britton & Rose var. <i>schottii</i>		SD photo voucher	SAM			SAB	CED	
Cactaceae	<i>Mammillaria blossfeldiana</i> Boed. var. <i>shurliana</i> H.E. Gates					GUA		CED	
Cactaceae	<i>Mammillaria dioica</i> K. Brandegee	COR	TOS	SAM					
Cactaceae	<i>Mammillaria goodridgei</i> Scheer var. <i>goodridgei</i>							CED	
Cactaceae	<i>Mammillaria goodridgei</i> Scheer var. <i>rectispina</i> E.Y. Dawson							CED	
Cactaceae	<i>Mammillaria hutchisoniana</i> (Gates) Boed.			SAM					NAT
Cactaceae	<i>Mammillaria lousiae</i> G.E. Linds						SAB SD 175170		
Cactaceae	<i>Mammillaria neopalmeri</i> R.T. Craig								
Cactaceae	<i>Myrtillocactus cochal</i> (Orcutt) Britton & Rose			SAM					
Cactaceae	* <i>Opuntia ficus-indica</i> (L.) Miller	5510 SV	TOS	SAM					
Cactaceae	<i>Opuntia littoralis</i> (Engelm.) Cockerell	COR	TOS	SAM aff. d					
Cactaceae	<i>Opuntia orticola</i> Philbrick	COR	TOS	SAM				CED SD 78002	NAT
Cactaceae	<i>Pachycereus pringlei</i> (S. Watson) Britton & Rose							CED SD 175168	
Cactaceae	<i>Stenocereus gunnisonus</i> (Engelm.) A.C. Gibson & K.E. Horak			SAM				CED	SD photo voucher
Campanulaceae	<i>Githopsis diffusa</i> A. Gray ssp. <i>guadalupensis</i> (Morin) Lammers					GUA			
Campanulaceae	<i>Triodanis biflora</i> (Ruiz & Pav.) Greene					GUA			
Cannabaceae	<i>Celtis reticulata</i> Torr.							CED?	
Caprifoliaceae	<i>Lonicera hispidula</i> (Lindl.) Torr. & Gray					GUA		CED	
Caprifoliaceae	<i>Lonicera subspicata</i> Hook. & Arn. var. <i>denudata</i> Rehder							CED	
Caryophyllaceae	<i>Achyronychia cooperi</i> Torr. & A. Gray					GUA		CED	
Caryophyllaceae	* <i>Cerastium glomeratum</i> Thuill.	5512 SV							

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Caryophyllaceae	<i>Drymaria holosteoides</i> Benth. var. <i>holosteoides</i>							CED	
Caryophyllaceae	* <i>Herniaria hirsuta</i> L. var. <i>cinerea</i> (DC.) Loret & Barrandon					GUA			
Caryophyllaceae	<i>Polycarpon tetraphyllum</i> (L.) L. <i>depressum</i> (Nutt.) Tamonico		TOS					CED	
Caryophyllaceae	<i>Silene antirrhina</i> L.		TOS			GUA		CED	
Caryophyllaceae	* <i>Silene gallica</i> L.		TOS			GUA		SBBG 50641	
Caryophyllaceae	<i>Silene laciniata</i> Cav. ssp. <i>laciniata</i>								
Caryophyllaceae	* <i>Spergularia bocconii</i> (Scheele) Merino					GUA			
Caryophyllaceae	<i>Spergularia macrotheca</i> (Hornem. ex Cham. & Schltdl.) Heynh. var. <i>leucantha</i> (Greene) B.L. Rob.					GUA			
Caryophyllaceae	<i>Spergularia macrotheca</i> (Hornem. ex Cham. & Schltdl.) Heynh. var. <i>macrotheca</i>								
Caryophyllaceae	<i>Spergularia macrotheca</i> (Hornem. ex Cham. & Schltdl.) Heynh. var. <i>talinum</i> (Greene) Jeps.					GUA			
Caryophyllaceae	<i>Spergularia marina</i> (L.) Besser					GUA			
Caryophyllaceae	* <i>Spergularia villosa</i> (Pers.) Cambess.								
Caryophyllaceae	* <i>Stellaria media</i> (L.) Vill.								
Caryophyllaceae	<i>Stellaria nitens</i> Nutt.					GUA			
Caryophyllaceae	* <i>Stellaria pallida</i> (Dumort.) Crép								
Chenopodiaceae	<i>Allenrolfea occidentalis</i> (S. Watson) Kuntze								
Chenopodiaceae	<i>Aphanisma blitoides</i> Nutt.					GUA		CED	NAT
Chenopodiaceae	<i>Arthrocnemum subterminale</i> (Parish) Standl.								
Chenopodiaceae	<i>Atriplex barclayana</i> (Benth.) Dietr.					GUA		SBBG 46290	NAT
Chenopodiaceae	<i>Atriplex canescens</i> (Pursh) Nutt. ssp. <i>canescens</i>							CED	
Chenopodiaceae	<i>Atriplex confertifolia</i> (Moq.) D. Dietr.							SBBG 114305	
Chenopodiaceae	<i>Atriplex julacea</i> S. Watson								
Chenopodiaceae	<i>Atriplex leucophylla</i> (Moq. in DC.) D. Dietr.							CED?	NAT?
Chenopodiaceae	<i>Atriplex pacifica</i> Nels.							CED	NAT
Chenopodiaceae	* <i>Atriplex semibaccata</i> R. Br.							CED	NAT
Chenopodiaceae	<i>Atriplex serena</i> A. Nelson ex Abrams var. <i>davidsonii</i> (Standl.) Munz					GUA		CED	NAT aff. d
Chenopodiaceae	* <i>Atriplex suberecta</i> T. Verd.								
Chenopodiaceae	<i>Atriplex watsonii</i> Abrams								
Chenopodiaceae	* <i>Beta vulgaris</i> L.								
Chenopodiaceae	* <i>Chenopodium album</i> L.							CED?	

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Fabaceae	<i>Acmispon flexuosus</i> (Greene) Brouillet							CED	
Fabaceae	<i>Acmispon glaber</i> (Vogel) Brouillet	COR SD 148363							
Fabaceae	<i>Acmispon grandiflorus</i> (Benth.) Brouillet					GUA			
Fabaceae	var. <i>grandiflorus</i>								
Fabaceae	<i>Acmispon maritimus</i> (Nutt.) D.D. Sokoloff	5515 SV					SAB	CED	NAT
Fabaceae	ssp. <i>brevitextillus</i> (Ottley) Brouillet								
Fabaceae	<i>Acmispon niveus</i> (S. Watson) Brouillet							SD 99632 CED	
Fabaceae	<i>Acmispon nudatus</i> (Greene) Brouillet							CED	
Fabaceae	<i>Acmispon rigidus</i> (Benth.) Brouillet							CED	
Fabaceae	<i>Acmispon strigosus</i> (Nutt.) Brouillet		TOS	SAM					
Fabaceae	<i>Acmispon watsonii</i> (Vasey & Rose)	5551 SV	TOS	SAM					NAT
Fabaceae	<i>Astragalus aff. gambelianus</i> E. Sheld.								
Fabaceae	<i>Astragalus fastidius</i> (Kell.) M.E. Jones							CED	
Fabaceae	<i>Astragalus gambelianus</i>							5632 SV CED	
Fabaceae	<i>Astragalus insularis</i> Kell. var. <i>insularis</i>							SBBG 52013 CED	NAT
Fabaceae	<i>Astragalus magdalenae</i> Greene var. <i>magdalenae</i>								NAT
Fabaceae	<i>Astragalus nuttallianus</i> DC. var. <i>cedrosensis</i>								
Fabaceae	M.E. Jones								
Fabaceae	<i>Astragalus trichopodus</i> A.Gray var. <i>lonchus</i>	COR	TOS						
Fabaceae	(M.E. Jones) Bameby								
Fabaceae	<i>Dalea mollis</i> Benth.							CED?	
Fabaceae	<i>Ebenopsis</i> sp. nov.								NAT
Fabaceae	<i>Errazurizia benthamii</i> (Brandege) I.M. Johnston						SAB?		
Fabaceae	<i>Lupinus bicolor</i> Lindl.					SD 230835		CED	
Fabaceae	<i>Lupinus concinnus</i> Agardh.								
Fabaceae	<i>Lupinus guadalupensis</i> Greene					GUA		CED	
Fabaceae	<i>Lupinus niveus</i> S. Watson					GUA			
Fabaceae	<i>Lupinus sparsiflorus</i> Benth.							CED	
Fabaceae	<i>Lupinus succulentus</i> Dougl.			SAM				SBBG	
Fabaceae	<i>Lupinus truncatus</i> Hook. & Arn.	COR	TOS						
Fabaceae	* <i>Medicago polymorpha</i> L.	SBBG 31771	I3 SV			GUA		5704 SV CED	
Fabaceae	* <i>Melilotus indicus</i> (L.) All.	COR				GUA		CED	
Fabaceae	<i>Phaseolus filiformis</i> Benth.						SAB SAB BCMEX 3904		NAT

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Fabaceae	<i>Trifolium depauperatum</i> Desv. var. <i>truncatum</i> (Greene) Martin ex Isely					GUA SD 230841			
Fabaceae	<i>Trifolium gracilentum</i> Torr. & A. Gray		TOS			GUA			
Fabaceae	<i>Trifolium microcephalum</i> Pursh					GUA			
Fabaceae	<i>Trifolium palmeri</i> S. Watson					GUA			
Fabaceae	<i>Trifolium willdenonii</i> Spreng.		TOS						
Fabaceae	* <i>Yachellia farnesiana</i> (L.) Wight & Arnott var. <i>minuta</i> (M.E. Jones) Seigler & Elbinger	COR						CED	
Fabaceae	<i>Vicia hassei</i> S. Watson	5527 SV	TOS						
Fabaceae	<i>Vicia ludoviciana</i> Nutt. var. <i>ludoviciana</i>	SD 102338				GUA			
Fagaceae	<i>Quercus cedrosensis</i> C.H. Müll.					GUA		CED	
Fagaceae	<i>Quercus tomentella</i> Engelm.					GUA			
Frankeniaceae	<i>Frankenia palmeri</i> S. Watson						SAB	CED	NAT
Frankeniaceae	<i>Frankenia salina</i> (Molina) I.M. Johnston		TOS			GUA		CED	
Garryaceae	<i>Garrya veatchii</i> Kell.							CED	
Gentianaceae	<i>Zeltnera venusta</i> (A. Gray) G. Mans.							CED	
Geraniaceae	* <i>Erodium botrys</i> (Cav.) Bertol	COR				GUA			
Geraniaceae	* <i>Erodium brachycarpum</i> (Godr.) Thell.	COR	TOS	SAM		GUA		CED 5660 SV (SD 251436) ^c	
Geraniaceae	* <i>Erodium cicutarium</i> (L.) L'Her. ex Ait.								
Geraniaceae	* <i>Erodium moschatum</i> (L.) L'Her. ex Ait.	COR	TOS	SAM		GUA	SAB?	CED 5656 SV (SD 251437) ^c	
Geraniaceae	<i>Erodium texanum</i> A. Gray								NAT
Geraniaceae	* <i>Pelargonium x hortorum</i> L.H. Bailey		TOS						
Grossulariaceae	<i>Ribes tortuosum</i> Benth.							CED	
Grossulariaceae	<i>Ribes viburnifolium</i> A. Gray		TOS					CED	
Heliotropaceae	<i>Heliotropium curassavicum</i> L.			SAM				CED	
Hydrophyllaceae	<i>Emmenanthe penduliflora</i> Benth. var. <i>penduliflora</i>					GUA		CED?	
Hydrophyllaceae	<i>Eucrypta chrysanthemifolia</i> (Benth.) Greene var. <i>bipinnatifida</i> (Torr.) Constance					GUA			
Hydrophyllaceae	<i>Eucrypta chrysanthemifolia</i> (Benth.) Greene var. <i>chrysanthemifolia</i>	COR	TOS			GUA	SAB		
Hydrophyllaceae	<i>Phacelia cedrosensis</i> Rose								
Hydrophyllaceae	<i>Phacelia cicutaria</i> Greene var. <i>hispida</i> (A.Gray) J. Howell		TOS					CED	NAT
Hydrophyllaceae	<i>Phacelia crenulata</i> Torr.							CED SD 45250	
Hydrophyllaceae	<i>Phacelia distans</i> Benth.								
Hydrophyllaceae	<i>Phacelia floribunda</i> Greene	COR	TOS			GUA			

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Hydrophyllaceae	<i>Phacelia hirtuosa</i> A. Gray		TOS	SAM					
Hydrophyllaceae	<i>Phacelia ixodes</i> Kell. var. <i>ixodes</i>						SAB	CED	NAT
Hydrophyllaceae	<i>Phacelia ixodes</i> Kell. var. <i>plumosa</i> Brand	COR	TOS	SAM					
Hydrophyllaceae	<i>Phacelia parryi</i> Torr.			SAM					
Hydrophyllaceae	<i>Phacelia phyllomanica</i> A. Gray					GUA			
Hydrophyllaceae	<i>Pholistoma auritum</i> (Lindl.) Lilja	COR	TOS						
Hydrophyllaceae	<i>Pholistoma racemosum</i> (Nutt.) Const.	COR	TOS	SAM			BCMEX 3906	CED	NAT
Juncaceae	<i>Juncus acutus</i> L. ssp. <i>leopoldii</i> (Parl.) Snog.							CED SD 54005	
Juncaceae	<i>Juncus bufonius</i> L. var. <i>bufonius</i>								
Juncaceae	* <i>Juncus bufonius</i> L. var. <i>congestus</i> Wahlenb.					GUA			
Lamiaceae	<i>Clinopodium palmeri</i> (A. Gray) Kuntze					GUA			
Lamiaceae	* <i>Marrubium vulgare</i> L.		TOS					5704 SV CED	
Lamiaceae	* <i>Mentha</i> sp.								
Lamiaceae	<i>Monardella thymifolia</i> Greene								
Lamiaceae	<i>Pogogyne tenuiflora</i> A. Gray					GUA			
Lamiaceae	<i>Salvia cedrosensis</i> Greene							CED	
Lamiaceae	<i>Salvia columbariae</i> Benth.							CED	
Lamiaceae	<i>Teucrium glandulosum</i> Kell.							CED	
Liliaceae	<i>Calochortus splendens</i> Dougl.	COR						CED	
Loasaceae	<i>Eucnide cordata</i> Kell.							CED	
Loasaceae	<i>Mentzelia adhaerens</i> Benthiam							CED	
Loasaceae	<i>Mentzelia hirsutissima</i> S. Watson var. <i>nesiotes</i>						SAB	CED	29641 JR NAT
Loasaceae	I.M. Johnston								
Loasaceae	<i>Mentzelia micrantha</i> (Hook. & Arn.) Torr. & A. Gray					GUA			
Loasaceae	<i>Petalonyx linearis</i> Greene								
Malvaceae	<i>Abutilon californicum</i> Benth.						SAB	CED	NAT?
Malvaceae	<i>Eremulche exilis</i> (A. Gray) Greene		TOS				SAB?	CED?	NAT
Malvaceae	* <i>Malva assurgentiflora</i> (Kellogg) M.F. Ray ssp. <i>assurgentiflora</i>		TOS						
Malvaceae	<i>Malva lindsayi</i> (Moran) M.F. Ray					GUA			
Malvaceae	<i>Malva lindsayi</i> × <i>occidentalis</i>					SD 47474 GUA			
Malvaceae	<i>Malva occidentalis</i> (S. Wats) M.F. Ray	COR			SAJ				
Malvaceae	<i>Malva pacifica</i> M.F. Ray						SAB	CED SD 230874	NAT
Malvaceae	* <i>Malva parviflora</i> L.			SAM				CED	NAT
Malvaceae	<i>Sphaeralcea</i> cf. <i>hainestii</i> Brandege	COR	TOS?		5563 SV	GUA	SAB SD 74904	CED SD 53944	29676 JR NAT

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Malvaceae	<i>Sphaeralcea fulva</i> Greene							CED	NAT
Malvaceae	<i>Sphaeralcea palmieri</i> Jeps.								
Malvaceae	<i>Sphaeralcea sulphurea</i> S. Watson								
Montiaceae	<i>Calandrinia menziesii</i> (Hook.) Torr. & A. Gray		TOS	SAM				5613 SV SBBC	
Montiaceae	<i>Calipitridium arizonicum</i> (J.T. Howell)								
Montiaceae	M.G. Simpson, M. Silveira, & Guilliams								
Montiaceae	<i>Cistanthe guadalupensis</i> (Dudley) Carolin ex Hershk.					GUA			
Montiaceae	<i>Cistanthe maritima</i> (Nutt.) Carolin ex Hershk.		TOS	SAM		GUA	SAB	CED	NAT
Montiaceae	<i>Claytonia parviflora</i> Dougl. ex Hook. ssp. <i>parviflora</i>					GUA			
Montiaceae	<i>Claytonia perfoliata</i> Willd. ssp. <i>mexicana</i> (Rydb.) J.M. Mill. & K.L. Chambers		TOS	SAM		GUA		CED	
Montiaceae	<i>Claytonia spathulata</i> Douglas							CED?	
Myrsinaceae	* <i>Lysimachia arvensis</i> (L.) U. Manns & Anderb.					GUA		5706 SV CED	NAT
Nyctaginaceae	<i>Abronia maritima</i> Nutt. ex S. Watson ssp. <i>maritima</i>			SAM				SD 6909	
Nyctaginaceae	<i>Boerhaavia coccinea</i> Mill.							SD 127688	
Nyctaginaceae	<i>Mirabilis laevis</i> (Benth.) Curran var. <i>crassifolia</i> (Choisy) Spellenh.		TOS	SAM		GUA	SAB?	CED	NAT
Oleaceae	<i>Hesperaloea palmieri</i> A. Gray					GUA		SD 77999	
Onagraceae	<i>Camissoniopsis cheiranthifolia</i> (Hornem. ex Spreng.) W.L. Wagner & Hoch ssp. <i>suffruticosa</i> (S. Watson) W.L. Wagner & Hoch			SAM					
Onagraceae	<i>Camissoniopsis guadalupensis</i> (S. Watson) W.L. Wagner & Hoch ssp. <i>guadalupensis</i>								
Onagraceae	<i>Camissoniopsis lewisii</i> (P.H. Raven) W.L. Wagner & Hoch			SD 251449					
Onagraceae	<i>Camissoniopsis robusta</i> (P.H. Raven) W.L. Wagner & Hoch					GUA			
Onagraceae	<i>Chylisma cardiophylla</i> (Torr.) Small ssp. <i>cedrosensis</i> (Greene) W. L. Wagner & Hoch							CED	
Onagraceae	<i>Epilobium foliosum</i> (Torr. & A. Gray) Suksdorf								
Onagraceae	<i>Eulobus californicus</i> Nutt. ex Torr. & A. Gray		TOS	SAM		GUA			
Onagraceae	<i>Eulobus crassifolius</i> (Greene) W. L. Wagner & Hoch							CED	NAT
Onagraceae	<i>Xyloniagra arborea</i> (Kell.) Donn.-Smith & Rose ssp. <i>arborea</i>							SD 62741 CED	
Onagraceae	<i>Xyloniagra arborea</i> (Kell.) Donn.-Smith & Rose ssp. <i>wigginsii</i> Munz								
Orchidaceae	<i>Piperia cooperi</i> (S. Watson) Rydb		TOS						

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Orobanchaceae	<i>Castilleja attenuata</i> (A. Gray) Chuang & Heckard					GUA			
Orobanchaceae	<i>Castilleja exserta</i> (A. Heller) Chuang & Heckard ssp. <i>exserta</i>		TOS			GUA			
Orobanchaceae	<i>Castilleja fruticosa</i> Moran					GUA			
Orobanchaceae	<i>Castilleja guadalupensis</i> Brandegee					GUA			
Orobanchaceae	<i>Castilleja subinclusa</i> Greene ssp. <i>subinclusa</i>		TOS					SD 115464	
Oxalidaceae	* <i>Oxalis pes-caprae</i> L.			5677 SV					
Papaveraceae	<i>Eschscholzia californica</i> Cham.	COR	TOS			GUA			
Papaveraceae	<i>Eschscholzia elegans</i> Greene.					GUA			
Papaveraceae	<i>Eschscholzia palmari</i> Rose					GUA			
Papaveraceae	<i>Eschscholzia ramosa</i> Greene	COR	TOS			GUA	SAB	CED	NAT
Papaveraceae	<i>Papaver heterophyllum</i> A. Gray	COR	TOS	SAM		GUA			
Papaveraceae	<i>Platystemon californicus</i> Benth.			SAM		GUA			
Phrymaceae	<i>Diplacus latifolius</i> (A. Gray) G.L. Nesom					GUA		5607 SV	
Phrymaceae	<i>Diplacus stellatus</i> Kell.							CED	
Phrymaceae	<i>Diplacus</i> × <i>australis</i> (Munz) Tulig		TOS?					CED	
Phrymaceae	<i>Erythranthe cardinalis</i> (Douglas ex Benth.) Spach							SD 54038	
Phyllanthaceae	<i>Andrachne microphylla</i> (Lam.) Baill.							CED	
Pinaceae	<i>Pinus radiata</i> D. Don var. <i>binata</i> (Engelm.) Lemmon					GUA			
Pinaceae	<i>Pinus radiata</i> D. Don var. <i>cedrosensis</i> (J.T. Howell) Axelrod							CED	
Plantaginaceae	<i>Antirrhinum nuttallianum</i> Benth. ssp. <i>subsessile</i> (A. Gray) D.M. Thompson.	COR	TOS	SAM		GUA		CED	
Plantaginaceae	<i>Antirrhinum watsonii</i> Vasey & Rose								
Plantaginaceae	<i>Collinsia heterophylla</i> Buist. var. <i>heterophylla</i>	COR				GUA	SAB	CED	NAT
Plantaginaceae	<i>Gambelia juncea</i> (Benth.) D.A. Sutton					GUA		CED	
Plantaginaceae	<i>Gambelia speciosa</i> Nutt.					GUA		CED	
Plantaginaceae	<i>Nuttallanthus texanus</i> (Scheele) D.A. Sutton	COR	TOS			GUA		CED?	
Plantaginaceae	<i>Penstemon cerrosensis</i> Kell.					GUA		CED	
Plantaginaceae	<i>Plantago ovata</i> Forsk. var. <i>fastigiata</i> (E. Morris) S.C. Meyers & A. Liston							29643 JR	
Plantaginaceae	<i>Plantago ovata</i> Forsk. var. <i>insularis</i> (Eastw.) S.C. Meyers & A. Liston					GUA	SAB	CED?	NAT
Poaceae	<i>Achnatherum diegoense</i> (Swallen) Barkworth	5516 SV					SD 124986		
Poaceae	<i>Agrostis pallens</i> Trin.	COR	TOS			GUA		CED	
Poaceae	<i>Aristida adscensionis</i> L.							CED	
Poaceae	* <i>Arundo donax</i> L.					GUA		CED	I3 SV
Poaceae	* <i>Avena barbata</i> Brot.	COR	TOS			GUA		CED	

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Poaceae	<i>*Avena fatua</i> L.	COR	TOS	SAM		GUA		CED	
Poaceae	<i>Bromus arizonicus</i> (Shear) Stebbins	SD 194201	I 4 SV	SD 86979					
Poaceae	<i>Bromus berterianus</i> Colla			SAM		GUA		CED	
Poaceae	<i>Bromus carinatus</i> Hook. & Arn.	COR	TOS	SAM					
Poaceae	<i>*Bromus diandrus</i> Roth.	5521 SV	TOS			GUA		CED	
Poaceae	<i>*Bromus hordeaceus</i> L.	COR	TOS	SAM		GUA			
Poaceae	<i>*Bromus madritensis</i> L. ssp. <i>rubens</i> (L.) Husnot	COR	TOS	SAM		GUA		CED	
Poaceae	<i>*Bromus tectorum</i> L.					GUA			
Poaceae	<i>*Cenchrus echinatus</i> L.								29689 JR
Poaceae	<i>Chloris virgata</i> Sw.								29686 JR
Poaceae	<i>*Cynodon dactylon</i> (L.) Pers.	COR						CED SD 86966	29692 JR
Poaceae	<i>Distichlis littoralis</i> (Engelm.) H.L. Bell & Columbus			SAM					
Poaceae	<i>Distichlis spicata</i> (L.) Greene	COR		SAM				CED	
Poaceae	<i>*Eleusine indica</i> (L.) Gaertn.								29688 JR
Poaceae	<i>Elymus condensatus</i> J. Presl	COR	TOS						
Poaceae	<i>Elymus triticoides</i> Buckley	SD 95662							
Poaceae	<i>Eragrostis pectinacea</i> (Michx.) Nees var. <i>pectinacea</i>								NAT
Poaceae	<i>*Festuca bromoides</i> L.					GUA			
Poaceae	<i>Festuca microstachys</i> Nutt.			SAM		GUA			
Poaceae	<i>*Festuca myuros</i> L.	COR	TOS			GUA		CED	
Poaceae	<i>Festuca octoflora</i> Valt. var. <i>octoflora</i>		TOS	SAM		GUA		CED	
Poaceae	<i>*Hordeum murinum</i> L. ssp. <i>glaucum</i> (Steud.) Tzvelev.	COR	TOS	SAM		GUA		CED	
Poaceae	<i>*Hordeum murinum</i> L. ssp. <i>leporinum</i> (Link) Arcang	COR	TOS	SAM		GUA		CED	
Poaceae	<i>*Lamarckia aurea</i> (L.) Moench					GUA		CED	
Poaceae	<i>Melica frutescens</i> Scribn.	COR	TOS	SAM		GUA		CED	
Poaceae	<i>Melica imperfecta</i> Trin.	COR	TOS	SAM		GUA		CED	
Poaceae	<i>Muhlenbergia microsperma</i> (DC.) Kunth	COR	TOS	SAM		GUA		CED	
Poaceae	<i>Nassella lepida</i> (Hitche.) Barkworth		SBBG 42532			GUA		CED SD 86930	
Poaceae	<i>Nassella pulchra</i> (Hitche.) Barkworth	COR							
Poaceae	<i>Pappostipa speciosa</i> (Trin. & Rupr.) Romanschenko					GUA		CED	
Poaceae	<i>*Phalaris caroliniana</i> Walt.	5511 SV	TOS	5680 SV		GUA			NAT
Poaceae	<i>*Phalaris minor</i> Retz.					GUA		CED	
Poaceae	<i>Piptochaetium pringlei</i> (Beal) Parodi					GUA			
Poaceae	<i>*Poa annua</i> L.					GUA		SBBG 55648	
Poaceae	<i>Poa secunda</i> J.S. Presl ssp. <i>secunda</i>		TOS			GUA			

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Poaceae	<i>Poa thomastii</i> Refugio					GUA			
Poaceae	* <i>Polygogon monspeliensis</i> (L.) Desf.		TOS			GUA		CED	
Poaceae	* <i>Polygogon viridis</i> (Gouan) Breistr.							CED	
Poaceae	* <i>Schismus barbatus</i> (L.) Thell.	5546 SV				GUA		SD 100920	
Poaceae	* <i>Sorghum bicolor</i> (L.) Moench							CED	29694 JR
Poaceae	* <i>Stenotaphrum secundatum</i> (Walter) Kuntze								
Poaceae	* <i>Triticum aestivum</i> L.			SAM		GUA		CED SD 54033	
Poaceae	* <i>Zea mays</i> L.								NAT
Polemoniaceae	<i>Allophylum giltoides</i> (Benth.) A.D. Grant & V.E. Grant					GUA			
Polemoniaceae	<i>Gilia achilleifolia</i> Benth. ssp. <i>abrotanifolia</i> (Greene) Brand	COR							
Polemoniaceae	<i>Gilia angelensis</i> V.E. Grant		TOS			GUA			
Polemoniaceae	<i>Gilia nevadensis</i> A. Gray					GUA			
Polemoniaceae	<i>Leptosiphon pygmaeus</i> (Brand) J.M. Porter & L.A. Johnson ssp. <i>pygmaeus</i>								
Polemoniaceae	<i>Linanthus dianthiflorus</i> (Benth.) Greene	COR							
Polemoniaceae	<i>Linanthus uncialis</i> (Brandege) Moran							CED UC 971574	
Polemoniaceae	<i>Linanthus veatchii</i> (C. Parry) J.M. Porter & L.A. Johnson							CED	
Polemoniaceae	<i>Microsteris gracilis</i> (Hook.) Greene							CED?	
Polygonaceae	<i>Eriogonum fasciculatum</i> Benth.	COR	TOS					CED	
Polygonaceae	<i>Eriogonum fasciculatum</i> × <i>molle</i>							5600 SV	
Polygonaceae	<i>Eriogonum grande</i> Greene var. <i>testudinum</i> Reveal		TOS						
Polygonaceae	<i>Eriogonum intricatum</i> Benth.							CED	
Polygonaceae	<i>Eriogonum molle</i> Greene							CED	
Polygonaceae	<i>Eriogonum pondii</i> Greene							CED	
Polygonaceae	<i>Eriogonum wrightii</i> Torr. ex Benth. var. <i>taxifolium</i> (Greene) Parish							CED	NAT
Polygonaceae	<i>Eriogonum zapatoense</i> Moran					GUA		CED	
Polygonaceae	<i>Harfordia macroptera</i> (Benth.) Greene & Parry var. <i>fruticosa</i> (Greene) Reveal								
Polygonaceae	<i>Lastarratea coriacea</i> (Goodman) Hoover			SD				CED?	
Polygonaceae	<i>Nemacaulis demidata</i> Nutt.			251464					
Polygonaceae	* <i>Polygonum argyrocoleon</i> Kunze	COR	TOS			GUA		SD 10559	
Polygonaceae	<i>Pterostegia drymarioides</i> Fischer & C.A. Mey.		TOS			GUA		CED	
Polypodiaceae	<i>Polypodium californicum</i> Kaulf.	COR	TOS			GUA			

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Polypodiaceae	<i>Polypodium scolieri</i> Hook. & Grev.								
Portulacaceae	* <i>Portulaca oleracea</i> L.					GUA			NAT
Primulaceae	<i>Primula clevelandii</i> (Greene) A.R. Mast & Reveal ssp. <i>insularis</i> (H. J. Thoms.) A.R. Mast & Reveal					GUA			
Pteridaceae	<i>Adiantum capillus-veneris</i> L.							CED	
Pteridaceae	<i>Cheilanthes brandegeei</i> D.C. Eaton							CED	
Pteridaceae	<i>Myriopteris conillei</i> (Maxon) A. Löve & D. Löve							SBBC	
Pteridaceae	<i>Myriopteris newberryi</i> (D.C. Eaton) Grusz & Windham					GUA			
Pteridaceae	<i>Notholaena californica</i> D.C. Eaton ssp. <i>californica</i>					GUA		CED	
Pteridaceae	<i>Notholaena californica</i> D.C. Eaton ssp. <i>leucophylla</i> Windham					GUA		CED	
Pteridaceae	<i>Pellaea andromedifolia</i> (Kaulf.) Fee var. <i>pubescens</i> D.C. Eaton	COR						CED	
Pteridaceae	<i>Pellaea mucronata</i> D. C. Eaton var. <i>mucronata</i>					GUA		CED	
Pteridaceae	<i>Pentagramma maxonii</i> (Weath.) Schuettp. & Windham					GUA		SD 251311 CED	
Pteridaceae	<i>Pentagramma triangularis</i> (Kaulf.) Yatsk., Windham, & E. Wollenw.	COR				GUA		CED	
Pteridaceae	<i>Pentagramma viscosa</i> (D.C. Eaton) Schuettp. & Windham					GUA			
Ranunculaceae	<i>Clematis pauciflora</i> Nutt.	COR	TOS					CED 5611 SV (SD 351465) ^c CED 5622 SV (SD 251466) ^c 5603 SV SD 51503	
Ranunculaceae	<i>Delphinium cardinale</i> Hook.							SD 54019	
Ranunculaceae	<i>Delphinium cardinale</i> × <i>parryi</i>								
Ranunculaceae	<i>Delphinium parryi</i> A. Gray (undeterminable)								
Ranunculaceae	<i>Delphinium parryi</i> A. Gray ssp. <i>maritimum</i> (Davidson) M.J. Warnock	COR	TOS						
Ranunculaceae	<i>Delphinium patens</i> Benth. ssp. <i>hepaticoides</i> Ewan								
Ranunculaceae	<i>Myosurus minimus</i> L.					GUA			
Ranunculaceae	<i>Ranunculus hebecarpus</i> Hook. & Arn.					GUA		CED SD 91022	
Resedaceae	<i>Oligomeris linifolia</i> (Hornem.) J.F. Macbr.	COR	TOS			GUA	SAB	CED	NAT
Rhamnaceae	<i>Ceanothus arboreus</i> Greene					GUA			
Rhamnaceae	<i>Ceanothus crassifolius</i> Torr.					GUA			
Rhamnaceae	<i>Ceanothus cuneatus</i> (Hook.) Nutt.					GUA			
Rhamnaceae	<i>Ceanothus perplexans</i> Trel.					GUA			

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Rhamnaceae	<i>Ceanothus verrucosus</i> Nutt.							CED SD 87001	
Rhamnaceae	<i>Rhamnus insula</i> Kellogg	SD 148322						CED SD 54101	
Rhamnaceae	<i>Rhamnus pirifolia</i> Greene					GUA			
Rhamnaceae	<i>Ziziphus parryi</i> Torr. ssp. <i>microphylla</i> (L.M. Johnston) M.C. Johnston.							CED SD 87005	
Rosaceae	<i>Adenostoma fasciculatum</i> Hook. & Arn. var. <i>obtusifolium</i> S. Wats.							CED 5674	
Rosaceae	<i>Aphanes occidentalis</i> (Nutt.) Rydb.					GUA			
Rosaceae	<i>Heteromeles arbutifolia</i> (Lindl.) M. Roem.	COR	TOS			GUA		CED SD 53981	
Rubiaceae	<i>Galium angulosum</i> A. Gray					GUA			
Rubiaceae	<i>Galium angustifolium</i> Nutt. ssp. <i>angustifolium</i>	COR							
Rubiaceae	<i>Galium aparine</i> L.	COR		SAM		GUA		CED BCMEX 7280	
Rubiaceae	<i>Galium coronadoense</i> Dempster	COR							
Rubiaceae	<i>Galium stellatum</i> Kellogg					GUA		CED	
Rutaceae	* <i>Ruta chalepensis</i> L.								
Sapindaceae	<i>Aesculus parryi</i> A. Gray	COR						CED?	29687 JR
Saururaceae	<i>Anemopsis californica</i> (Nutt.) Hook. & Arn.					GUA			
Saxifragaceae	<i>Jepsonia malvifolia</i> (Greene) Small	COR							
Saxifragaceae	<i>Jepsonia parryi</i> (Torr.) Small	COR				GUA		SD 105754	
Scrophulariaceae	* <i>Myoporum laetum</i> G. Forst.					GUA		BCMEX 6912	
Scrophulariaceae	<i>Scrophularia villosa</i> Pennell					GUA		CED	NAT
Selaginellaceae	<i>Selaginella bigelovii</i> L. Underw.							SD 175171	NAT
Simmondsiaceae	<i>Simmondsia chinensis</i> (Link) C.K. Schneid.								
Solanaceae	<i>Datura discolor</i> Bernh.								
Solanaceae	<i>Datura wrightii</i> Regel						SAB?		
Solanaceae	<i>Lycium andersonii</i> A. Gray			SAM				CED?	
Solanaceae	<i>Lycium brevipes</i> Benth. var. <i>brevipes</i>		TOS	SAM	SAJ			CED SD 54049	NAT
Solanaceae	<i>Lycium brevipes</i> Benth. var. <i>hassei</i> (Greene) C.L. Hitchc.		SD 43674						
Solanaceae	<i>Lycium californicum</i> Nutt.	COR	TOS	SAM	5564 SV	GUA	SAB SD 74899		NAT
Solanaceae	<i>Lycium exsertum</i> A. Gray						SAB	CED BCMEX 3218	
Solanaceae	<i>Lycium fremontii</i> A. Gray					GUA			
Solanaceae	* <i>Lycopersticon esculentum</i> L.	COR	TOS				29731 JR	5586 SV	29695 JR

APPENDIX 1. Continued.

Family	Species	COR	TOS	SAM	SAJ	GUA	SAB	CED	NAT
Solanaceae	<i>Nicotiana attenuata</i> Torr.								
Solanaceae	<i>Nicotiana clevelandii</i> A. Gray								
Solanaceae	* <i>Nicotiana glauca</i> Grah.								
Solanaceae	<i>Physalis crassifolia</i> Benth. var. <i>crassifolia</i>								
Solanaceae	<i>Solanum americanum</i> Miller								
Solanaceae	<i>Solanum douglasii</i> Dunal								
Solanaceae	<i>Solanum lindisium</i> Benth.								
Solanaceae	<i>Solanum palmieri</i> Vasey & Rose								
Solanaceae	<i>Solanum wallacet</i> (A. Gray) Parish ssp. <i>clokeyi</i> (Munz) Thorne								
Solanaceae	<i>Solanum xanti</i> A. Gray								
Tamaricaceae	* <i>Tamarix aphylla</i> (L.) H. Karst.								
Tamaricaceae	* <i>Tamarix ramosissima</i> Ledeb.								
Themidaceae	<i>Dichelostemma capitatum</i> Alph. Wood								
Themidaceae	ssp. <i>capitatum</i>								
Themidaceae	<i>Triteleia guadalupensis</i> L.W. Lenz								
Themidaceae	<i>Triteleopsis palmieri</i> (S. Watson) Hoover								
Typhaceae	<i>Typha latifolia</i> L.								
Urticaceae	<i>Hesperocnide tenella</i> Torr.								
Urticaceae	<i>Parietaria hespera</i> B.D. Hinton var. <i>californica</i> B.D. Hinton								
Urticaceae	<i>Parietaria hespera</i> B.D. Hinton var. <i>hespera</i>								
Urticaceae	* <i>Urtica urens</i> L.								
Verbenaceae	<i>Glandularia lilacina</i> (Greene) Umber.								
Viscaceae	<i>Phoradendron bolleanum</i> (Seem.) Eichler								
Zosteraceae	<i>Phyllospadix snyderi</i> Hook.								
Zosteraceae	<i>Phyllospadix torreyi</i> S. Watson								
Zosteraceae	<i>Zostera marina</i> L.								
Zygophyllaceae	<i>Fagonia laevis</i> Standl.								
Zygophyllaceae	<i>Viscainoa geniculata</i> (Kellogg) Greene var. <i>geniculata</i>								
TOTAL NO. OF TAXA		160	156	113	12	234	62	307	98

^aIsland acronyms: COR = Coronado, TOS = Todos Santos, SAM = San Martín, SAJ = San Jerónimo, GUA = Guadalupe, SAB = San Benito, CED = Cedros, NAT = Natividad.

^bHerbarium acronyms: SD = San Diego Natural History Museum, SBBC = Santa Barbara Botanic Garden, CAS = California Academy of Sciences, RSA = Rancho Santa Ana Botanic Garden, BCMEX = Universidad Autónoma de Baja California, UC = University of California (Berkeley).

^cOne specimen collected and one specimen found in the indicated herbarium collection.

d.aff. = affinity. Indicates specimens that have been identified to the indicated species but that differ in some way or require full taxonomic review in future work.