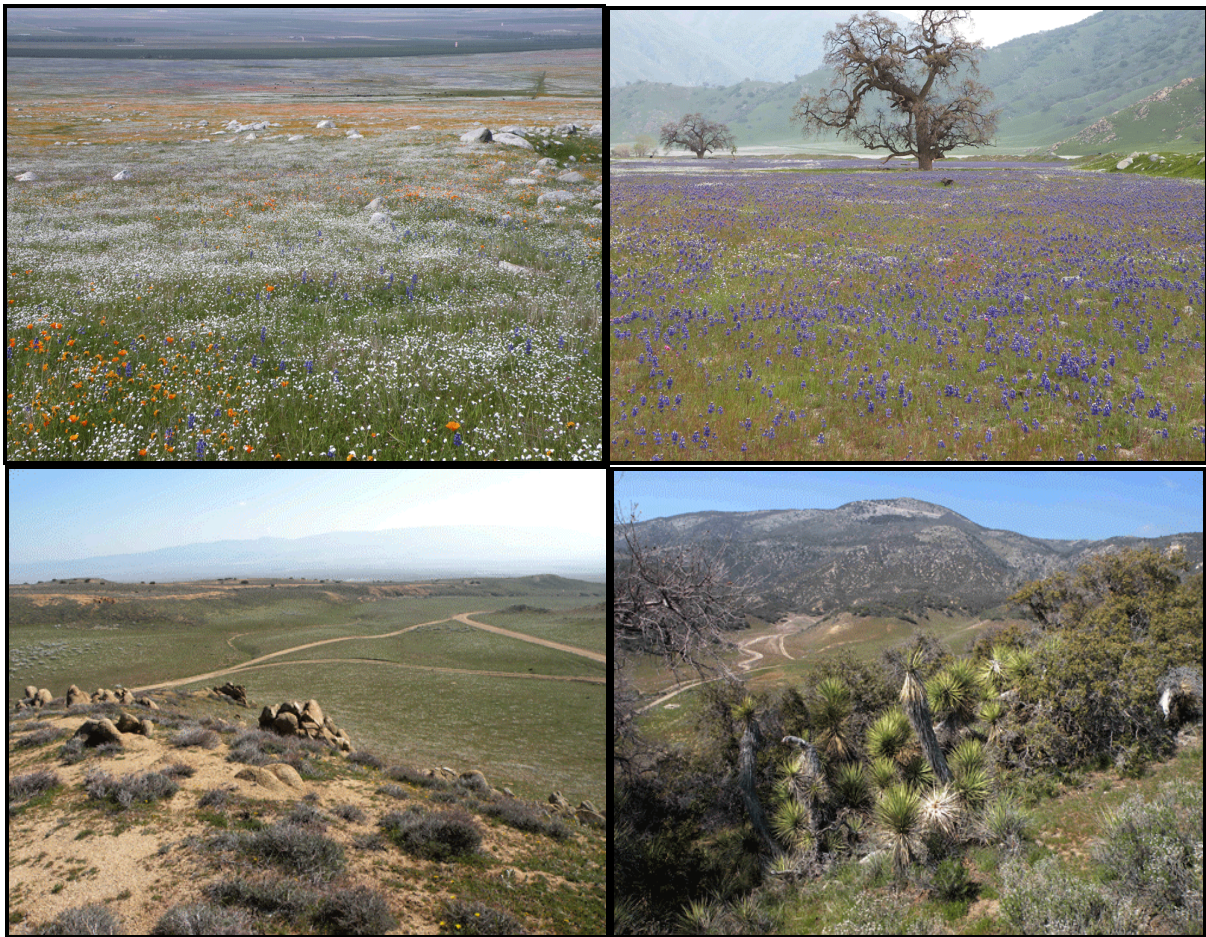


**FLORA OF THE TEJON RANCH  
CONSERVANCY ACQUISITION  
AREAS, TEJON RANCH,  
CALIFORNIA**



*Prepared for:*  
**TEJON RANCH CONSERVANCY**

**July 2010**

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**DMEC Mission Statement:**  
*To provide quality environmental consulting services, with integrity,  
that protect and enhance the human and natural environment.*

**Flora of the  
Tejon Ranch Conservancy  
Acquisition Areas,  
Tejon Ranch, California**

*Prepared for:*

**Tejon Ranch Conservancy**

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**23 July 2010**

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*This document should be cited as:*

David Magney Environmental Consulting. 2010. Flora of the Tejon Ranch Conservancy Acquisition Areas, Tejon Ranch, California. 23 July 2010. (PN 09-0001.) Ojai, California. Prepared for Tejon Ranch Conservancy, Frazier Park, California.



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## SECTION 1. INTRODUCTION

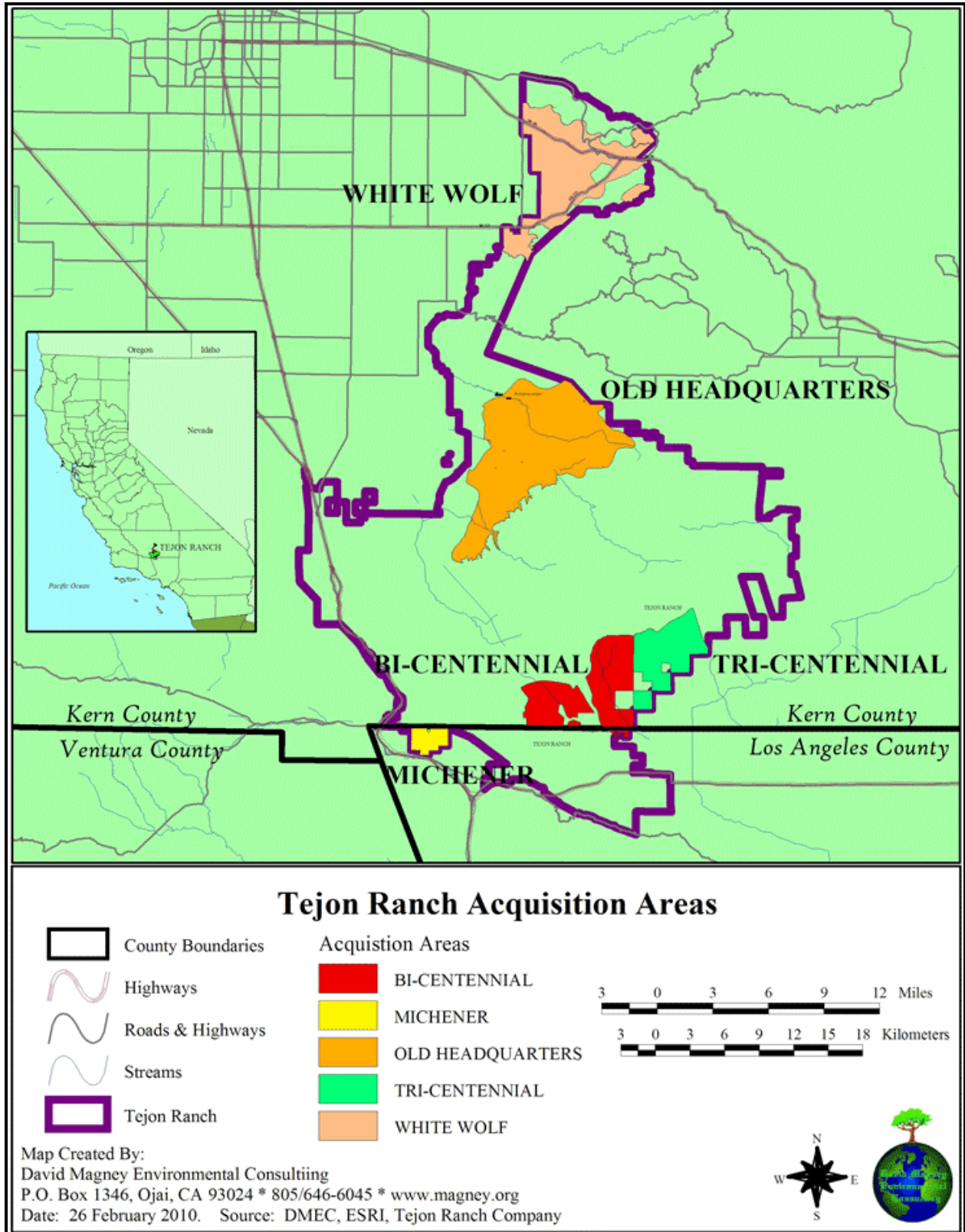
This report provides a summary of the results of the spring and early summer floristic surveys, conducted by David Magney Environmental Consulting (DMEC), within the Tejon Ranch Conservancy Acquisition Areas, Tejon Ranch, Kern and Los Angeles Counties, California. This floristic survey includes a summary of the flora and habitats, including special-status species reported or observed onsite. The location of Tejon Ranch is shown on Figure 1, General Location Map of the Tejon Ranch Acquisition Areas. The focus of this work is to provide the Tejon Ranch Conservancy with information on the flora of the acquisition areas in support of their conservation and management efforts. These surveys were limited in scope due to resource constraints; therefore, they are not intended to provide comprehensive results suitable for environmental regulatory review.

The Tejon Ranch Conservancy Acquisition Areas are composed of five proposed acquisition areas of the privately owned Tejon Ranch. These five are known as: White Wolf, Old Headquarters, Michener, Bi-Centennial, and Tri-Centennial. Collectively, they encompass 62,689 acres (25,369 hectares).

The Tejon Ranch Conservancy Acquisition Areas are privately owned lands located within and adjacent to the Tehachapi Mountains, mostly in southern Kern County. The acquisition areas are mostly separate areas, except Bi-centennial and Tri-centennial, which are adjacent to each other. Elevation ranges onsite from approximately 530 feet on White Wolf to approximately 5,350 feet above mean sea level on Bi-Centennial.

White Wolf and Old Headquarters drain into the Tulare Lake Basin of western Kern County. Michener is on a ridgetop, draining into two separate watersheds: Castac Lake to the north and Gorman Creek to the south (the northernmost part of the Santa Clara River watershed). Figure 1 shows the relative locations of each of the five proposed acquisition areas of Tejon Ranch that were surveyed.

**Figure 1. General Location Map of the Tejon Ranch Acquisition Areas**



## SECTION 2. METHODS

### Field Survey Methods

DMEC botanists/ecologists performed floristic field studies during the spring and summer months of 2009 to identify and detect as many vascular plant species as possible at each of the five proposed acquisition areas of Tejon Ranch. Portions of the acquisition areas were walked over to account for as many plant species as possible onsite, using existing roads to provide primary access to as much of each acquisition area as possible. Due to resource constraints, the entirety of each acquisition area was not surveyed, and surveys were initiated after blooming had started in some of the acquisition areas. Thus, surveys may have missed or were unable to positively identify some plant species present in the acquisition areas.

Global Positioning System (GPS) units were carried to track footpaths and to mark waypoints of findings of interest. Figure 2, Map of Floristic Survey of the Tejon Ranch Conservancy Acquisition Areas, generally illustrates areas surveyed by DMEC botanists, with more detailed maps of survey paths shown on Figures 2A through 2E, one for each acquisition area. The survey paths include areas traversed by vehicle.

Spring surveys occurred in mid-March (cursory view), April, June, and July 2009 at one or more of the ranch areas, starting on White Wolf, followed by Old Headquarters, Bi- and Tri-Centennial, and Michener, generally following the season upslope. The survey dates and purposes are summarized in Table 1, Survey Dates and Details.

Waypoints were established for each site where floristic data were gathered, and correspond to checklists in each botany team's field notes. Waypoints were established in a non-random fashion to provide samples of various plant species associations observed by the botany teams in the field. Survey effort (number of waypoints per unit area) was variable from location to location. Likewise the area surveyed at each waypoint was variable, but in general, approximately 200 ft<sup>2</sup> was surveyed at each waypoint. All vascular plants observed at each survey point were recorded and dominant species (visually estimated by cover) were noted at many of the waypoints, but not every one. Representative voucher specimens were collected for identification and verification. Voucher specimens were collected from each of the five ranch areas, with the specimens being deposited into the herbaria at the University of California, Santa Barbara (UCSB), and Riverside (UCR), with the intent of having a physical specimen for each species from each of the five ranch areas, whenever possible.

Voucher specimens were identified by using botanical reference manuals (Twisselmann 1995, Hickman 1993, Munz 1974, Munz and Keck 1973), and sometimes comparing them with specimens housed at UCSB and UCR. Photographs or scans of the specimens were sometimes sent to experts on specific plant groups for further identification or verification. Not all voucher specimens were so treated, and a number of specimens collected are undetermined as to identity.

Photographs were taken at most survey waypoints, with many of the species observed photographed with a digital camera. Photographs of general habitat conditions were also taken at most waypoints.



Figure 2. Map of Floristic Survey of the Tejon Ranch Conservancy Acquisition Areas

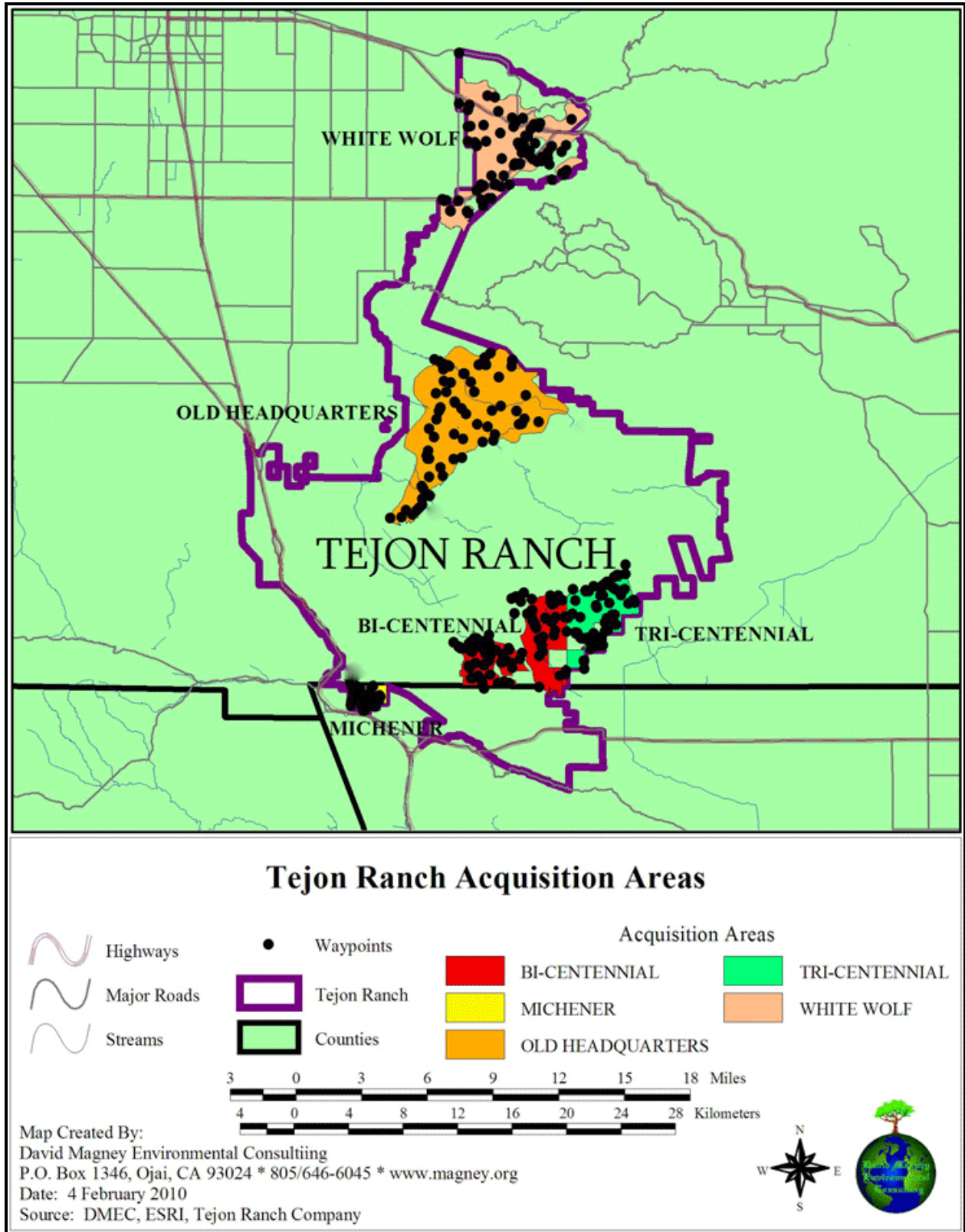


Figure 2A. Map of Floristic Survey of the White Wolf Acquisition Area

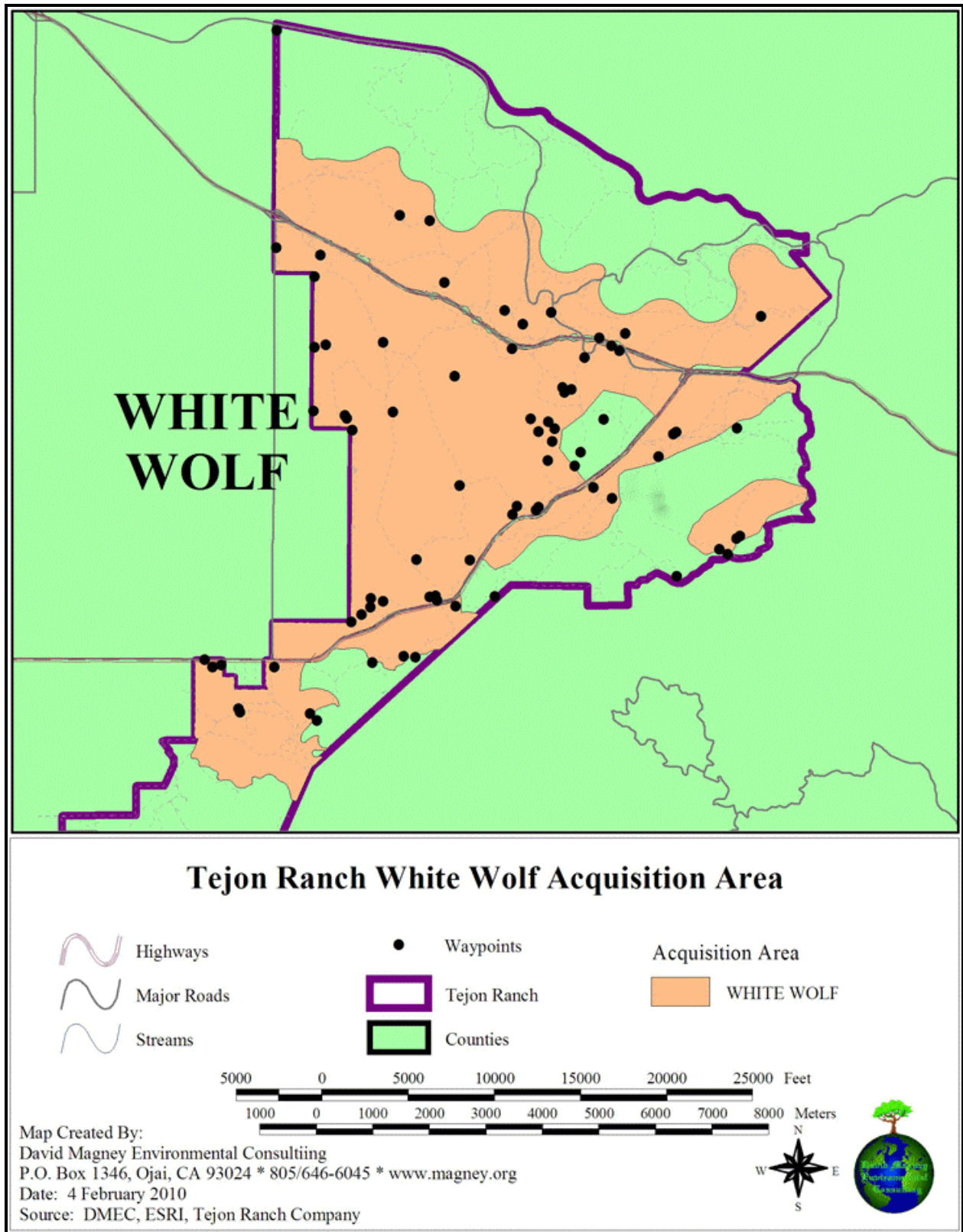


Figure 2B. Map of Floristic Survey of the Old Headquarters Acquisition Area

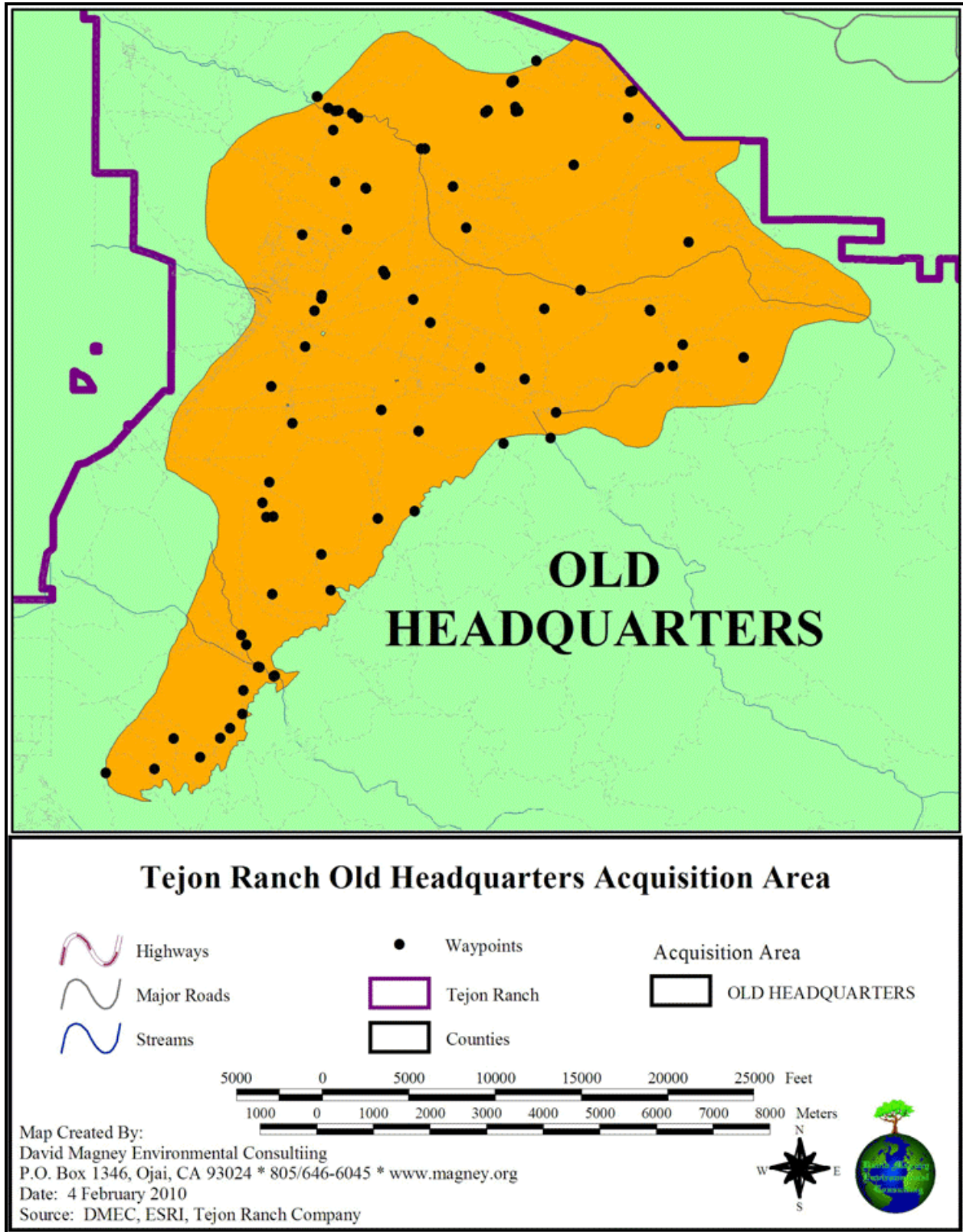


Figure 2C. Map of Floristic Survey of the Michener Acquisition Area

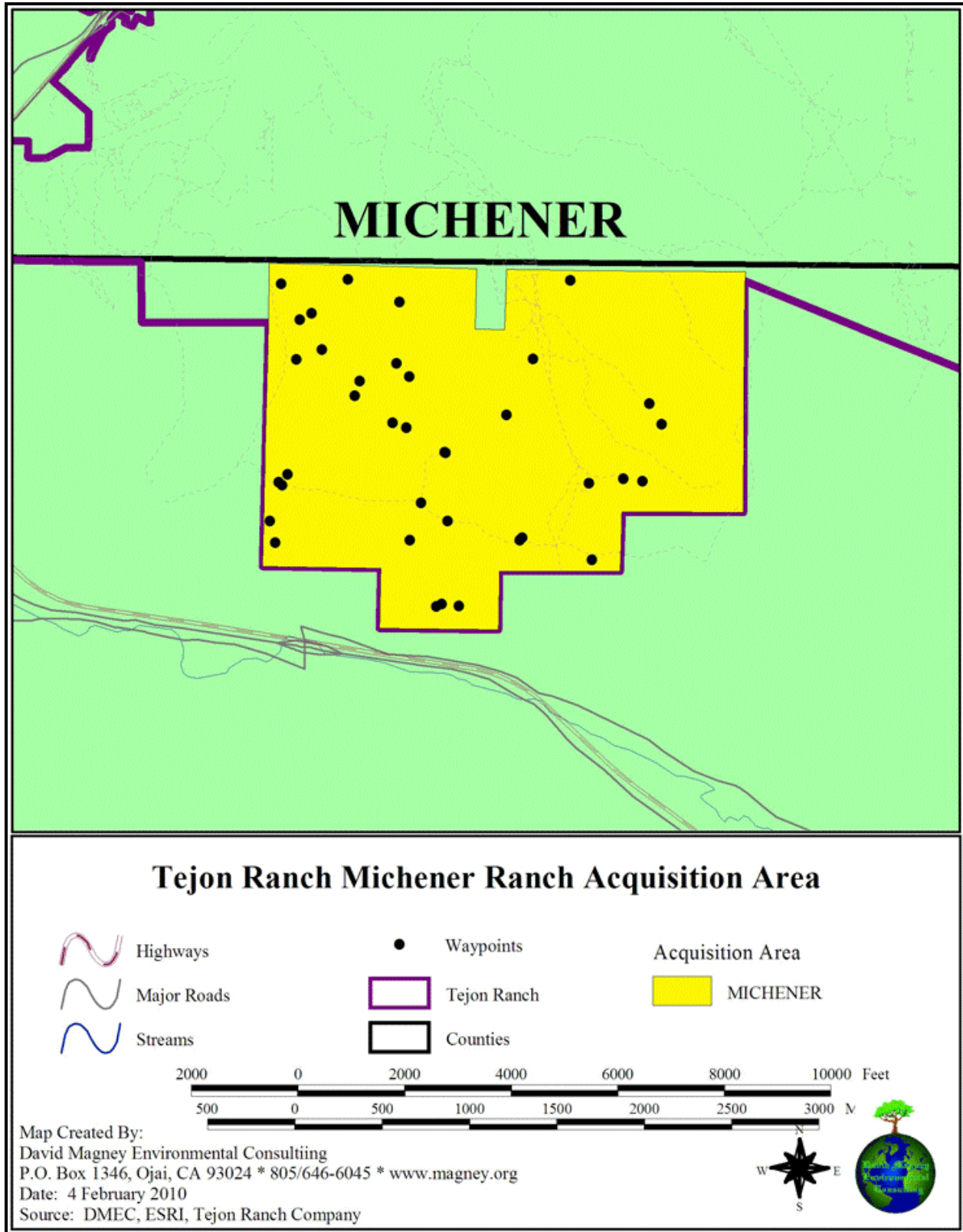


Figure 2D. Map of Floristic Survey of the Bi-Centennial Acquisition Area

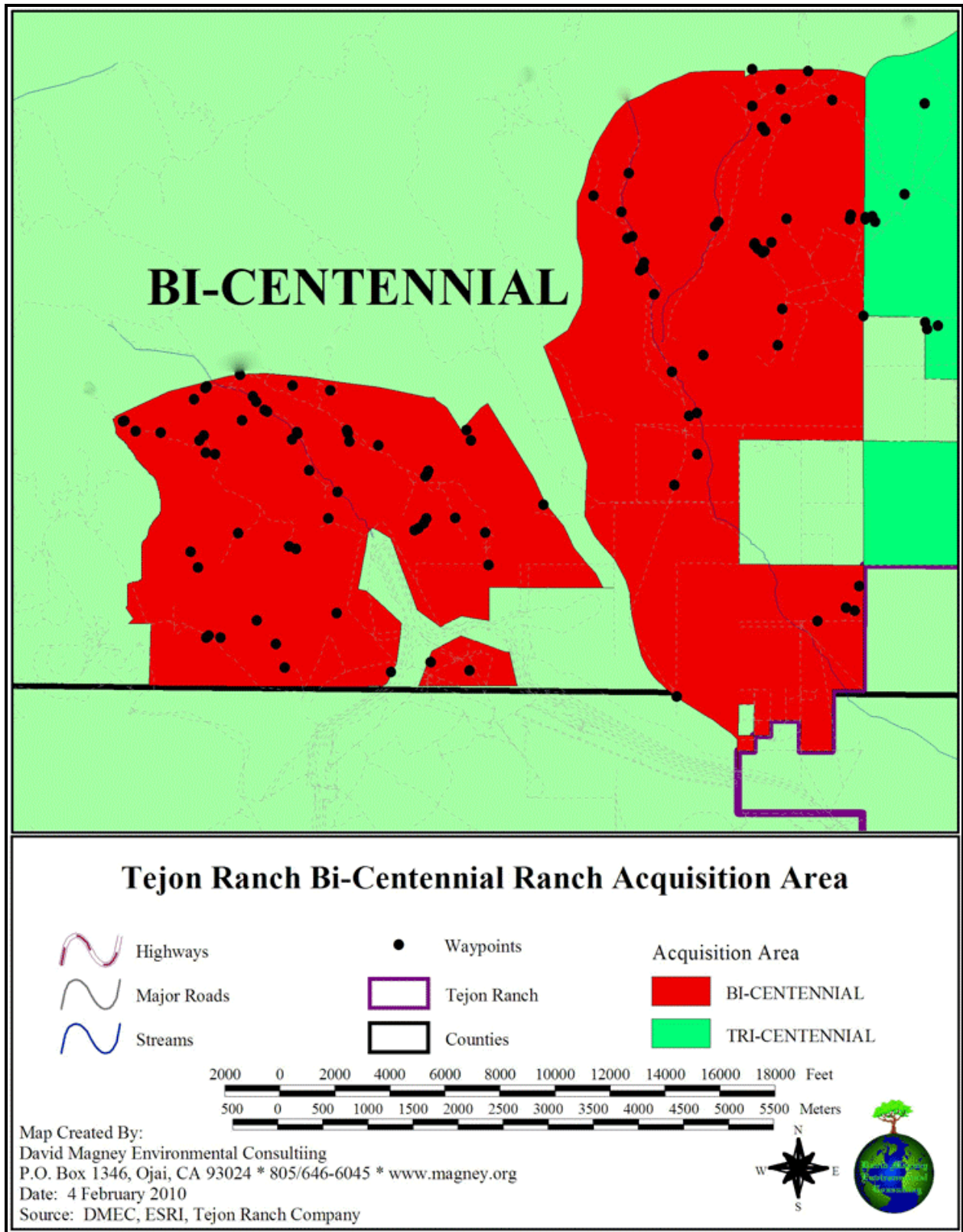
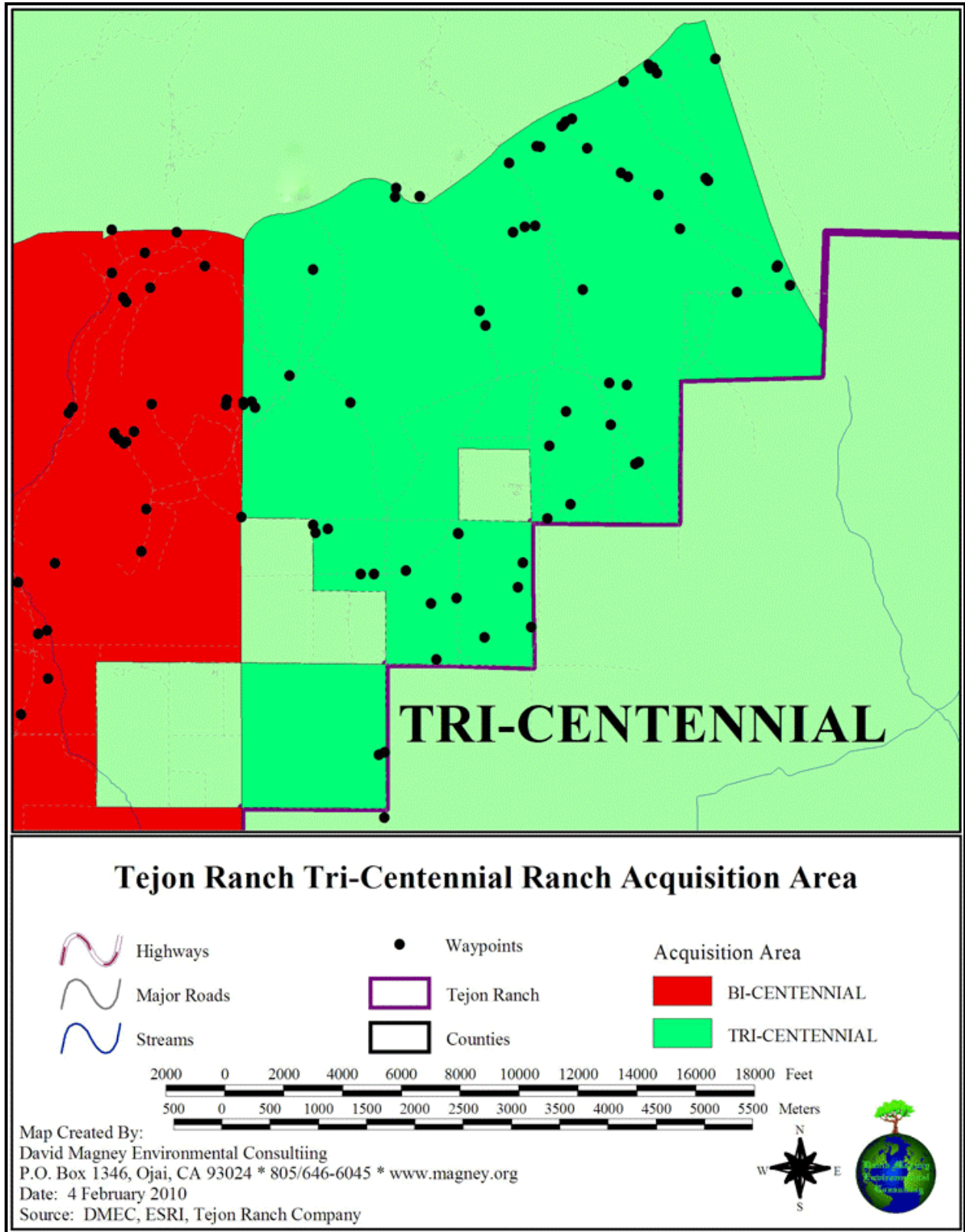


Figure 2E. Map of Floristic Survey of the Tri-Centennial Acquisition Area



**Table 1. Survey Dates and Details**

Survey Location	Survey Date	Survey Type	Time Period	Methods/Constraints	GPS Unit	Surveyors
White Wolf, Old Headquarters	3/11/2009	Botanical & Vegetation survey	9 am-5 pm	Preliminary overview of acquisition areas	Garmin eTrex	David Magney, Mike White
Michener, Bi- & Tri-Centennial	3/12/2009	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mike White
Old Headquarters	4/4/2009-4/6/2009	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
White Wolf	4/7/2009-4/8/2009	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
Bi-Centennial	4/20/09-4/21/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
Tri-Centennial	4/22/09-4/24/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
Michener, White Wolf	4/28/09-4/29/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
White Wolf	6/15/09-6/17/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
Old Headquarters	6/18/09-6/19/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
Bi-Centennial	6/24/09-6/25/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
Tri-Centennial	6/26/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney, Mitch Provance, Callen Huff, David Brown
Michener, White Wolf	7/28/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Magney,
Old Headquarters	7/28/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	Callen Huff
Bi-Centennial	7/28/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	Mitch Provance
Tri-Centennial	7/28/09	Botanical & Vegetation survey	9 am-5 pm	Identify the flora onsite	Garmin eTrex	David Brown, Spencer Westbrook

## Literature Survey

DMEC conducted a search of the California Department of Fish and Game's (CDFG's) California Natural Diversity Database (CNDDDB) RareFind3 (CDFG 2009) for the Tejon Ranch areas to identify which special-status species have been previously reported from the survey areas. DMEC also conducted a literature/database search of California Native Plant Society's (CNPS') *Inventory of Rare and Endangered Plants of California* (CNPS 2001, 2010) and the *Flora of Kern County* (Twisselmann 1995) to account for other special-status plant species not tracked by CNDDDB with potential to occur in the vicinity of the proposed project site.

The Consortium of California Herbaria (CCH) and the Calflora online databases were consulted on numerous occasions for several purposes, including:

- determining which taxa have been collected previously from Tejon Ranch, and specifically from one or more of the acquisition areas;
- determining the relative rarity/commonness of taxa found onsite but not previously reported from the ranch or Kern or Los Angeles Counties; and
- determining the known distribution of selected taxa.

The *Flora of North America North of Mexico* (Flora of North America Editorial Committee 1993+), *The Jepson Manual: Higher Plants of California* (Hickman 1993), *A California Flora and Supplement* (Munz & Keck 1973), and *A Flora of Southern California* (Munz 1974), and more recent taxonomic treatments were used to identify various taxa found at one or more of the acquisition areas. Finally, botanist colleagues and taxonomic experts were consulted regarding identification of select taxa.

The plant communities of the five acquisition areas were classified according to CDFG's/CNPS's *A Manual of California Vegetation [Manual]* (Sawyer et al. 2009), which follows the National and International Vegetation Classification systems. However, DMEC also identified additional alliances and associations of plant species that are not currently described by Sawyer et al. but occurred consistently across the acquisition areas. These currently undescribed "alliances" are presented in this report as well, based on criteria and methods CDFG and CNPS used to develop the second edition of the *Manual*, and will be considered for inclusion in future editions (J. Evans pers. comm.<sup>1</sup>).

Sawyer et al. (2009) recognize on Pages 30 and 31 that their description on grassland (herbland) alliances and associations are still not well understood, and that a substantial amount of work still needs to be done before California herblands can be adequately described and understood, which is currently part of CNPS's California grasslands assessment initiative project<sup>2</sup>. The *Manual* states on Page 31 that it will "begin to report the grassland variation in this edition based on recent studies". Since the five acquisition areas are dominated by herblands that have not been studied much by vegetation ecologists, and that annual herblands in California are still poorly described and understood, it is no surprise that many new plant associations are present on the Tejon Ranch and other large areas in the region, such as the former San Emigdio Ranch<sup>3</sup>.

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<sup>1</sup> Julie Evans, CNPS Vegetation Program Director, personal communication (email) 13 May 2010 regarding acceptability of naming new, undescribed, vegetation alliances.

<sup>2</sup> David Magney is a member of the CNPS Vegetation Committee and part of the Grasslands Assessment Initiative.

<sup>3</sup> DMEC is conducting botanical surveys (spring 2010) of the grassland areas of the former San Emigdio Ranch.



## SECTION 3. BOTANICAL RESOURCES

The botanical resources of the project site include the flora and plant communities occupying the property landscape, including special-status species and sensitive habitats.

### FLORA

The vascular plant flora of the entire Tejon Ranch Conservancy Acquisition Areas is summarized in Table 2, Plant Species Observed at the Tejon Ranch Conservancy Acquisition Areas, lists the 877<sup>4</sup> plant species<sup>5</sup> observed during the surveys conducted onsite. To date, DMEC has identified 668 vascular plant taxa, cumulatively, as present at one or more of the five acquisition areas, plus a 209 that have not been fully identified<sup>6</sup>. Of the 668 identified vascular plant taxa, 572 (85.6%) are native and the remaining 96 (14.4%) are introduced naturalized species. This ratio of native to nonnative is considerably higher than for the state as a whole, which has over 20% nonnative species (Hickman 1993).

Special-status plant species are defined in this report as those listed by the state or federal governments (CDFG 2010) or in the *Inventory of Rare and Endangered Plants of California* (California California Native Plant Society [CNPS] 2010). Of the vascular plants that were identified, 16 are special-status species, listed by the California Native Plant Society (2001, 2010) and also tracked by the California Department of Fish and Game's Natural Diversity Database (CNDDDB)<sup>7</sup>. In addition 2 species are on the CNPS Postponed Taxa (CNPS 2008) list and 6 more are not listed but are considered by DMEC to meet the criteria CNPS and CNDDDB use for adding to their respective lists.

A total of 209 species records need to be identified, or have their identity verified by experts. Voucher specimens need to be sent to them for annotation after specimen labels have been written and printed. Most of the 209 partial identifications are based solely on field observations without the benefit of a voucher specimen to verify, or the voucher specimen lacks key diagnostic features that facilitate full identification. Many of the 209 are the same taxon, but accounted for separately for internal data management purposes.

For example, there are seven (7) species of *Lupinus* listed as unidentified; however, most, if not all, of these represent species fully identified elsewhere onsite (in one or more of the five acquisition areas), with separate "species" spaces allocated on the checklist for each one in each of the five survey areas. This situation is true for many of the more challenging (difficult to identify) species (in terms of identification without adequate material available to identify).

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<sup>4</sup> This number represents a maximum and includes 209 taxa not fully identified either to species or subspecies/variety. Most of these unidentified taxa have been determined (identified fully) at one or more of the five acquisition areas.

<sup>5</sup> "Species" here includes subspecies, varieties, and hybrids.

<sup>6</sup> The unidentified taxa are represented by placeholders on the species list, which actually may inflate the total number of taxa truly present onsite since they may simply be species fully identified as present onsite.

<sup>7</sup> Not all special-status species tracked by CNPS are mapped by the CNDDDB; however, the CNDDDB maintains paper files for those not yet mapped, with the intention of mapping occurrences with funding becomes available.

A brief floristic characterization for each of the five acquisition areas is given below and further discussed in the following subsections:

- White Wolf supports at least 286<sup>8</sup> vascular plant species.
- Old Headquarters supports at least 313<sup>9</sup> species.
- Michener Ranch supports at least 228<sup>10</sup> species.
- Bi-Centennial supports at least 378<sup>11</sup> species.
- Tri-Centennial supports at least 243<sup>12</sup> species.

If the unidentified taxa are determined to be different taxa than those already positively identified, the size of the flora for each of the acquisition areas will increase significantly. A summary of the flora and habitats for each of the five acquisitions areas is provided later in this section.

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<sup>8</sup> There are 46 taxa that have not been fully identified from White Wolf that are not included in this number.

<sup>9</sup> There are 54 taxa that have not been fully identified from Old Headquarters.

<sup>10</sup> There are 72 taxa that have not been fully identified from Michener Ranch.

<sup>11</sup> There are 103 taxa that have not been fully identified from Bi-Centennial.

<sup>12</sup> There are 67 taxa that have not been fully identified from Tri-Centennial.

Tejon Ranch Conservancy – Flora of Tejon Ranch Acquisition Areas

Project No. 09-0001

July 2010



Table 2. Plant Species Observed at the Tejon Ranch Conservancy Acquisition Areas

Scientific Name	Common Name	Habit	Family	TEJON NORTH		TEJON SOUTH			Tejon Ranch
				White Wolf	Old HQ	Michener Ranch	Bi-Centennial	Tri-Centennial	
<i>Acer negundo</i> var. <i>californicum</i> (Torrey & A. Gray) Sarg.	Box Elder	T	Aceraceae		1				V
<i>Achillea millefolium</i> L.	White Yarrow	PH	Asteraceae	1	1	1	1	1	
<i>Achnatherum hymenoides</i> (Roem. & Schult.) Barkworth [ <i>Oryzopsis h.</i> ]	Indian Rice Grass	PH	Poaceae					1	
<i>Achnatherum speciosum</i> (Trin. & Rupr.) Barkworth [ <i>Stipa speciosa</i> ]	Desert Needlegrass	PG	Poaceae			1	1	1	
<i>Achyrachaena mollis</i> Schauer	Blow Wives	AH	Asteraceae		1	1	1		
<i>Adenostoma fasciculatum</i> Hooker & Arnott	Chamise	S	Rosaceae			1	1	1	
<i>Aesculus californica</i> (Spach) Nutt.	California Buckeye	T	Sapindaceae	1	1	1		1	V
<i>Agoseris grandiflora</i> (Nutt.) Greene	Bigflower Dandelion	PH	Asteraceae	1					
<i>Agoseris retrorsa</i> (Bentham) E. Greene	Retrorse Mountain Dandelion	PH	Asteraceae	1		1			V
<i>Agoseris</i> sp.	a Dandelion	PH	Asteraceae			1	1	1	
<i>Agrostis</i> sp.	a Bentgrass	PG	Poaceae				1		
<i>Agrostis viridis</i> Gouan *	Green Bentgrass	PG	Poaceae	1	1		1		
<i>Ailanthus altissima</i> (Miller) Swingle *	Tree of Heaven	T	Simaroubaceae	1					
<b><i>Allium howellii</i> Eastw. var. <i>howellii</i></b>	<b>Howell's Onion</b>	PG	Alliaceae		1				V
<i>Allium peninsulare</i> Lemmon var. <i>peninsulare</i>	Peninsular Onion	PG	Alliaceae		1				V
<i>Allium</i> sp.	Onion	PG	Alliaceae		1				
<i>Allium</i> sp. (either <i>hyalinum</i> or <i>crispum</i> )	Paper-flowered Onion	PG	Alliaceae	1	1				
<i>Allophyllum divaricatum</i> (Nutt.) A.D. Grant & V. Grant	Divaricate Allophyllum	AH	Polemoniaceae		1				V
<i>Allophyllum gilioides</i> (Benth.) A.D. Grant & V.E. Grant ssp. <i>gilioides</i>	Gilia Phlox	AH	Polemoniaceae	1	1				V
<i>Amaranthus albus</i> L. *	Pigweed Amaranth	AH	Amaranthaceae	1	1		1		
<i>Ambrosia acanthicarpa</i> Hooker	Annual Turweed	AH	Asteraceae	1	1			1	
<i>Ambrosia psilostachya</i> var. <i>californica</i> (Rydb.) Blake	Western Ragweed	BH	Asteraceae		1				
<i>Amsinckia douglasiana</i> A. DC.	Douglas Fiddleneck	AH	Boraginaceae	1					
<i>Amsinckia eastwoodiae</i> J.F. Macbr.	Eastwood Fiddleneck	AH	Boraginaceae	1	1	1	1	1	
<i>Amsinckia menziesii</i> var. <i>intermedia</i> (Fischer & C. Meyer) Ganders	Rancher's Fire	AH	Boraginaceae	1	1	1	1	1	V
<i>Amsinckia menziesii</i> (Lehm.) Nelson & J.F. Macbr. var. <i>menziesii</i>	Small-flowered Fiddleneck	AH	Boraginaceae	1	1	1	1	1	

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Scientific Name	Common Name	Habit	Family	TEJON NORTH		TEJON SOUTH			Tejon Ranch
				White Wolf	Old HQ	Michener Ranch	Bi-Centennial	Tri-Centennial	
<i>Amsinckia tessellata</i> var. <i>gloriosa</i> (Suksd.) Hoover	Devil's Lettuce	AH	Boraginaceae					1	
<i>Amsinckia</i> sp. (probably a variety of <i>menziesii</i> )	a Fiddleneck	AH	Boraginaceae		1		1	1	
<i>Anagallis arvensis</i> L. *	Scarlet Pimpernel	AH	Primulaceae	1			1		
<i>Anagallis minima</i> (L.) Krause *	Chaffweed	AH	Primulaceae		1				
<i>Ancistrocarphus filagineus</i> A. Gray	Woolly Fishhooks	AH	Asteraceae	1			1		
<i>Anemopsis californica</i> (Nutt.) Hook. & Arn. var. <i>californica</i>	Yerba Manza	PH	Saurueraceae		1		1	1	
<i>Anisocoma acaulis</i> Torrey & A. Gray	Scale Bud	AH	Asteraceae			1		1	
<i>Aphanes occidentalis</i> (Nutt.) Rydb.	Dew-cup Lady's Mantle	AH	Rosaceae	1	1				
<i>Apium graveolens</i> L. *	Celery	PH	Apiaceae		1	1			
<i>Apocynum cannabinum</i> L.	Indian Hemp	PH	Apocynaceae				1		
<i>Aquilegia formosa</i> Fischer var. <i>truncata</i> (Fischer & Meyer) Baker	Truncate Crimson Columbine	PH	Ranunculaceae					1	
<i>Arctostaphylos glandulosa</i> Eastw. ssp. ?	Eastwood Manzanita	S	Ericaceae				1		
<i>Arctostaphylos glauna</i> Lindley	Bigberry Manzanita	S	Ericaceae	1		1	1	1	
<i>Arctostaphylos parryana</i> Lemmon	Parry Manzanita	S	Ericaceae	1			1		V
<i>Arctostaphylos</i> sp.	a Manzanita	S	Ericaceae			1			
<i>Arctostaphylos viscida</i> ssp. <i>mariposa</i> (Dudley) P.V. Wells	Mariposa Manzanita	S	Ericaceae	1			1	1	
<i>Arctostaphylos viscida</i> Parry ssp. <i>visdida</i>	Sierran Whiteleaf Manzanita	S	Ericaceae					1	
<i>Argemone munita</i> Durand & Hilg. ssp. <i>munita</i>	Prickly Poppy	PH	Papaveraceae		1		1		
<i>Artemisia douglasiana</i> Besser	Mugwort	PH	Asteraceae	1	1	1	1		V
<i>Artemisia dracunculus</i> L.	Tarragon	AH	Asteraceae	1	1	1	1	1	V
<i>Artemisia tridentata</i> Nutt. ssp. <i>tridentata</i>	Great Basin Sagebrush	S	Asteraceae			1		1	
<i>Arundo donax</i> L. *	Giant Reed	PG	Poaceae		1				
<i>Asclepias californica</i> E. Greene ssp. <i>californica</i>	California Milkweed	PH	Apocynaceae	1			1	1	
<i>Asclepias erosa</i> Torrey	Desert Milkweed	PH	Apocynaceae	1	1	1	1	1	
<i>Asclepias fascicularis</i> Decne.	Narrowleaf Milkweed	PH	Apocynaceae	1	1		1		
Asteraceae herb	unknown composite	AH	Asteraceae		1				
<i>Astragalus didymocarpus</i> Hook. & Arn. var. <i>didymocarpus</i>	Two-seeded Milkvetch	AH	Fabaceae						V
<i>Astragalus douglasii</i> (T. & G.) Gray var. <i>douglasii</i>	Douglas Milkvetch	PH	Fabaceae			1	1	1	V

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<i>Astragalus gambelianus</i> E. Sheldon	Gambel's Dwarf Milkvetch	PH	Fabaceae	1			1	1	
<i>Astragalus lentiginosus</i> var. <i>nigricalycis</i> M.E. Jones	Black-sepaled Freckled Locoweed	PH	Fabaceae	1					V
<i>Astragalus lentiginosus</i> var. <i>variabilis</i> Barneby	Changling Freckled Locoweed	PH	Fabaceae				1		
<i>Astragalus oxyphysus</i> Gray	Mount Diablo Milkvetch	PH	Fabaceae	1					
<i>Astragalus purshii</i> Douglas ex Hooker var. <i>purshii</i>	Pursh's Woollypod Milkvetch	PH	Fabaceae				1		
<i>Astragalus purshii</i> var. <i>tinctus</i> M.E. Jones	Purple Woollypod Milkvetch	PH	Fabaceae			1	1		
<i>Astragalus</i> sp.	a Milkvetch	PH	Fabaceae				1	1	
<i>Athysanus pusillus</i> (Hook.) E. Greene	Dwarf Athysanus	AH	Brassicaceae		1		1		
<i>Atriplex canescens</i> (Pursh) Nutt. ssp. <i>canescens</i>	Fourwing Saltbush	S	Chenopodiaceae	1	1			1	
<i>Atriplex lentiformis</i> (Torrey) S. Watson ssp. <i>lentiformis</i>	Big Saltbush, Quailbrush	S	Chenopodiaceae		1				
<i>Atriplex</i> sp.	a saltbush		Chenopodiaceae		1				
<i>Avena barbata</i> Link. *	Slender Wild Oat	AG	Poaceae	1	1	1	1	1	V
<i>Avena fatua</i> L. *	Wild Oat	AG	Poaceae	1	1	1	1	1	V
<i>Azolla filiculoides</i> Lam.	Mosquito Fern	AF	Azollaceae		1				
<i>Baccharis salicifolia</i> (Ruiz Lopez & Pavon) Pers.	Mulefat	S	Asteraceae	1	1	1	1	1	
<i>Balsamorhiza deltoidea</i> Nuttall	Balsamroot, Chuchupate	PH	Asteraceae			1			V
<i>Berberis dictyota</i> Jeps.	Dull-leaf Holly-leaved Barberry	S	Berberidiaceae				1		V
<i>Berula erecta</i> (Hudson) Cov.	Cutleaf Water-parsnip	PH	Apiaceae		1		1		
<i>Bloomeria crocea</i> (Torrey) Cov. var. <i>crocea</i>	Common Goldenstar	PG	Themidaceae				1		
<i>Boechera</i> [ <i>Arabis</i> ] <i>pulchra</i> (M.E. Jones ex S. Watson) W.A. Weber	Desert Rock Cress	PH	Brassicaceae				1	1	
<i>Boechera</i> [ <i>Arabis</i> ] <i>retrofracta</i> (Graham) Å. Löve & D. Löve.	Holboell's Rockcress	PH	Brassicaceae				1		
<i>Boechera</i> [ <i>Arabis</i> ] sp.	a Rock Cress	PH	Brassicaceae			1	1		
<i>Boerhavia coccinea</i> Miller	Scarlet Spiderling	AH	Nyctaginaceae		1				
<i>Bowlesia incana</i> Ruiz Lopez & Pavón	Hoary Bowlesia	AH	Apiaceae	1	1	1		1	X
<i>Brassica tournefortii</i> Gouan *	Mediterranean Mustard	AH	Brassicaceae	1	1				
<i>Brassicaceae</i> - unkown 1	a Mustard	AH	Brassicaceae				1		
<i>Brassicaceae</i> - unkown 2	a Mustard	AH	Brassicaceae				1		

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<i>Brassicaceae</i> - unkown 3	a Mustard	AH	Brassicaceae	1					
<i>Brodiaea</i> sp.	a Brodiaea	PG	Amaryllidiaceae		1				
<i>Brodiaea terrestris</i> ssp. <i>kernensis</i> (Hoover) Niehaus	Harvest Brodiaea	PH	Amaryllidiaceae	1					V
<i>Bromus arenarius</i> Labill. *	Australian Brome	AG	Poaceae		1	1	1	1	V
<i>Bromus arizonicus</i> (Shear) Stebbins	Arizona Brome	AG	Poaceae						V
<i>Bromus carinatus</i> Hook. & Arn. var. <i>carinatus</i>	California Brome	PG	Poaceae	1		1		1	
<i>Bromus diandrus</i> Roth. *	Ripgut Grass	AG	Poaceae	1	1	1	1	1	
<i>Bromus hordeaceus</i> L. *	Soft Chess	AG	Poaceae	1	1	1	1	1	
<i>Bromus madritensis</i> L. ssp. <i>madritensis</i> *	Madrid Brome	AG	Poaceae	1	1		1	1	
<i>Bromus madritensis</i> ssp. <i>rubens</i> (L.) Husnot *	Red Brome	AG	Poaceae	1	1	1		1	
<i>Bromus</i> sp.1	Brome	AG	Poaceae	1	1				
<i>Bromus tectorum</i> L. var. <i>tectorum</i> *	Downy Brome	AG	Poaceae	1	1	1	1	1	V
<i>Calandrinia ciliata</i> (Ruiz Lopez & Pavon) DC.	Redmaids	AH	Portulacaceae	1	1	1	1	1	
<i>Calocedrus decurrens</i> (Torrey) Florin	Incense-cedar	T	Cupressaceae		1				V
<i>Calochortus invenustus</i> E. Greene	Plain Mariposa Lily	PG	Liliaceae	1					
<i>Calochortus</i> sp.1	a Mariposa Lily	PG	Liliaceae			1			
<i>Calochortus</i> sp.2	a Mariposa Lily	PG	Liliaceae				1		
<i>Calochortus</i> sp.3	a Mariposa Lily	PG	Liliaceae					1	
<i>Calochortus venustus</i> Benth.	Butterfly Mariposa Lily	PH	Liliaceae						V
<i>Calycadenia multiglandulosa</i>	Rosin Weed	AH	Asteraceae	1					
<i>Calyptidium monandrum</i> Nutt.	Common Calyptidium	AH	Portulacaceae				1	1	
<i>Calystegia malacophylla</i> (E. Greene) Munz ssp. <i>malacophylla</i>	Sierra Morning Glory	PV	Convolvulaceae				1		
<i>Calystegia malacophylla</i> / <i>occidentalis</i>	Morning-glory	PV	Convolvulaceae	1		1	1		
<i>Calystegia malacophylla</i> var. ?	Sierra Nevada Morning-glory	PV	Convolvulaceae			1	1	1	
<i>Calystegia</i> sp.1	Morning-glory	PV	Convolvulaceae			1	1		
<i>Camelina microcarpa</i> Andrz. *	False Flax	A/BH	Brassicaceae	1					
<i>Camissonia bistorta</i> (Torrey & A. Gray) Raven	California Sun Cup	A/PH	Onagraceae					1	
<i>Camissonia boothii</i> ssp. <i>decorticans</i> (Hooker & Arnott) Raven	Booth Shreading Primrose	AH	Onagraceae					1	V

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<i>Camissonia campestris</i> (Greene) Raven cf. ssp. <i>campestris</i>	Mojave Sun-cup	AH	Onagraceae	1		1	1	1	
<i>Camissonia claviformis</i> (Torrey & Fremont) Raven cf. ssp. <i>claviformis</i>	Browneyes	AH	Onagraceae					1	
<i>Camissonia claviformis</i> (Torrey & Fremont) Raven ssp. ? 1	Browneyes	AH	Onagraceae				1		
<i>Camissonia contorta</i> (Douglas) Raven	Contorted Sun Cup	AH	Onagraceae		1				V
<i>Camissonia graciliflora</i> (Hook. & Arn.) Raven	Hill Sun-cup	AH	Onagraceae	1	1		1		
<i>Camissonia kernensis</i> ssp. <i>gilmanii</i> (Munz) Raven	Gilman's Evening Primrose	AH	Onagraceae	1			1	1	
<i>Camissonia pallida</i> ssp. <i>pallida</i> (Abrams) Raven	Pale Primrose	AH	Onagraceae			1	1	1	
<i>Camissonia palmeri</i> (S. Watson) Raven	Palmer Primrose	AH	Onagraceae	1					
<i>Camissonia</i> sp.	a Primrose	AH	Onagraceae			1	1	1	
<i>Camissonia strigulosa</i> (Fischer & C. Meyer) Raven	Contorted Primrose	AH	Onagraceae				1	1	
<i>Capsella bursa-pastoris</i> (L.) Medikus *	Shepherd's Purse	AH	Brassicaceae	1	1				
<i>Cardamine californica</i> (T. & G.) Greene var. <i>californica</i>	California Milkmaids	AH	Brassicaceae						V
<i>Carduus pycnocephalus</i> L. *	Italian Thistle	AH	Asteraceae		1				
<i>Carex</i> cf. <i>hassei</i> L. Bailey	Hasse's Sedge	PH	Cyperaceae				1		
<i>Carex simulata</i> Mackenzie	Short Beaked Sedge	PH	Cyperaceae				1		
<i>Carex</i> sp.1	a Sedge	PG	Cyperaceae			1			
<i>Carex</i> sp.2	taller Sedge	PG	Cyperaceae			1			
<i>Carex</i> sp.3	a Sedge	PG	Cyperaceae				1		
<i>Carex</i> sp.4	a Sedge	PG	Cyperaceae					1	
<i>Castilleja affinis</i> Hook. & Arn. ssp. <i>affinis</i>	Lay-and-Collie's Indian Paintbrush	PH	Orobanchaceae					1	
<i>Castilleja angustifolia</i> (Nutt.) G. Don	Desert Indian Paintbrush	PH	Orobanchaceae				1		
<i>Castilleja attenuata</i> (Gray) Chuang & Heckard	Valley Tassels	AH	Orobanchaceae	1	1				V
<i>Castilleja exserta</i> (A.A. Heller) Chuang & Heckard ssp. <i>exserta</i>	Purple Owl's Clover	AH	Orobanchaceae	1	1	1	1	1	V
<i>Castilleja</i> sp.1	Indian Paintbrush	PH	Orobanchaceae	1	1			1	
<i>Castilleja</i> sp.2	Indian Paintbrush	PH	Orobanchaceae				1		
<i>Castilleja</i> sp.3	Indian Paintbrush	PH	Orobanchaceae					1	
<i>Castilleja</i> sp.4	an Owl's Clover	AH	Orobanchaceae	1	1				

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<i>Castilleja subinclusa</i> E. Greene ssp. <i>subinclusa</i>	Long-leaved Indian Paintbrush	PH	Orobanchaceae				1	1	
<i>Castilleja tenuis</i> (A.A. Heller) Chuang & Heckard	Bristle Owl's Clover	AH	Orobanchaceae	1	1				
<i>Caulanthus cooperi</i> (S. Watson) Payson var. ?	Cooper's Jewel Flower	AH	Brassicaceae				1		
<i>Caulanthus coulteri</i> S. Watson var. <i>coulteri</i>	Coulter Jewelflower	AH	Brassicaceae	1	1	1	1	1	V
<i>Ceanothus cuneatus</i> (Hook.) Nutt. Ex T.& G. var. <i>cuneatus</i>	Wedgeleaf Ceanothus	S	Rhamnaceae	1	1	1	1		
<i>Ceanothus greggii</i> ssp. <i>vestitus</i> (Greene) McMinn	Mojave Ceanothus	S	Rhamnaceae	1		1	1		
<i>Ceanothus integerrimus</i> Hooker & Arnott	Deer Brush	S	Rhamnaceae	1					
<i>Ceanothus leucodermis</i> E. Greene	Chaparral Whitethorn	S	Rhamnaceae	1					
<i>Ceanothus</i> sp.1	a Ceanothus	S	Rhamnaceae				1		
<i>Celtis reticulata</i> Torrey	Netleaf Hackberry	T	Cannabaceae	1					
<i>Centaurea melitensis</i> L. *	Tocalote, Napa Thistle	AH	Asteraceae	1	1		1		
<i>Centaurea solstitialis</i> L. *	Yellow Star-thistle	AH	Asteraceae						
<i>Centromadia pungens</i> (Hooker & Arnott) E. Greene ssp. <i>pungens</i>	Common Spikeweed	AH	Asteraceae	1	1				V
<i>Centrostegia thurberi</i> Benth.	Thurber's Spineflower	AH	Polygonaceae					1	
<i>Cerastium fontanum</i> ssp. <i>vulgare</i> (Hartman) Greuter & Burdet *	Mouse-ear Chickweed	AH	Caryophyllaceae	1	1				
<i>Cerastium glomeratum</i> Thuill. *	Mouse-ear Chickweed	AH	Caryophyllaceae	1	1		1		
<i>Cerastium</i> sp.1	Cerastium	AH	Caryophyllaceae		1				
<i>Cercocarpus betuloides</i> Torrey & A. Gray var. <i>betuloides</i>	Birchleaf Mountain Mahogany	S	Rosaceae	1		1	1	1	
<i>Chaenactis</i> cf. <i>fremontii</i> A. Gray	Desert Pincushion	AH	Asteraceae					1	
<i>Chaenactis glabriuscula</i> DC. var. <i>glabriuscula</i>	Common Yellow Pincushion	AH	Asteraceae	1		1	1	1	V
<i>Chaenactis glabriuscula</i> var. <i>heterocarpha</i> (A. Gray) H.M. Hall	Yellow Pincushion	AH	Asteraceae				1		
<i>Chaenactis glabriuscula</i> var. <i>megacephala</i> A. Gray intr. w/ ssp. <i>lanosa</i>	Big Headed Yellow Chaenactis	AH	Asteraceae				1	1	
<i>Chaenactis</i> sp.1	Chaenactis	AH	Asteraceae					1	
<i>Chaenactis stevioides</i> Hook. & Arn.	Desert Pincushion	AH	Asteraceae			1		1	
<i>Chaenactis stevioides</i> Hook. & Arn. X C. <i>glabriuscula</i> DC. var. <i>glabriuscula</i>	Esteve Pincushion Hybrid	AH	Asteraceae			1			
<i>Chaenactis xantiana</i> Gray	Xantus Pincushion	AH	Asteraceae			1		1	V
<i>Chamaesyce albomarginata</i> (Torrey & A. Gray) Small	Rattlesnake Spurge	AH	Euphorbiaceae	1	1	1	1	1	
<i>Chamaesyce ocellata</i> (Durand & Hilg.) Millsp. ssp. <i>ocellata</i>	Littleye Spurge	AH	Euphorbiaceae	1	1				



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<i>Chamaesyce polycarpa</i> (Benth.) Millsp. var. <i>polycarpa</i>	Golondrina	PH	Euphorbiaceae		1				
<i>Chamaesyce</i> sp.	a Spurge		Euphorbiaceae				1		
<i>Chamomilla suaveolens</i> (Pursh) Rydberg	Pineapple Weed	AH	Asteraceae	1	1		1		
<i>Cheilanthes covellii</i> Maxon	Covell's Lip-fern	PF	Pteridaceae	1		1	1		
<i>Chenopodium album</i> L. *	Lamb's Quarters	AH	Chenopodiaceae		1				
<i>Chenopodium botrys</i> L. *	Jerusalem Oak	AH	Chenopodiaceae	1					
<i>Chenopodium californicum</i> (S. Watson) S. Watson	California Tea	PH	Chenopodiaceae	1	1	1	1	1	
<i>Chenopodium murale</i> L. *	Nettle-leaved Goosefoot	AH	Chenopodiaceae		1				
<i>Chenopodium</i> sp.	a Goosefoot		Chenopodiaceae		1	1			
<i>Chlorogalum pomeridianum</i> (DC.) Kunth var. <i>pomeridianum</i>	Soap Lily	PG	Agavaceae	1	1	1	1		
<i>Chorizanthe membranacea</i> Benth.	Pink Spineflower	AH	Polygonaceae						V
<i>Chorizanthe</i> sp.1	a Spineflower	AH	Polygonaceae		1				
<i>Chorizanthe</i> sp.2	a Spineflower	AH	Polygonaceae					1	
<i>Chorizanthe xantii</i> S. Watson var. <i>xantii</i>	Xantus Spineflower	AH	Polygonaceae	1	1	1	1		V
<i>Cirsium occidentale</i> var. ?	Western Thistle	BH	Asteraceae		1	1	1	1	
<i>Cirsium occidentale</i> var. <i>californicum</i> (Gray) Keil & C. Turner	California Thistle	BH	Asteraceae		1		1		
<i>Cirsium occidentale</i> var. <i>venustum</i> (E. Greene) Jepson	Red or Venus Thistle	BH	Asteraceae	1			1		
<i>Cirsium</i> sp.1	Thistle	BH	Asteraceae					1	
<i>Cirsium vulgare</i> (Savi) Tenore *	Bull Thistle	BH	Asteraceae		1		1		
<i>Clarkia cylindrica</i> (Jepson) H. Lewis & M. Lewis ssp. <i>cylindrica</i>	Speckled Clarkia	AH	Onagraceae	1	1		1		V
<i>Clarkia cylindrica</i> ssp. ?	Speckled Clarkia	AH	Onagraceae	1	1		1		
<i>Clarkia cylindrica</i> ssp. <i>clavicularpa</i> W. Davis	Speckled Clarkia	AH	Onagraceae	1					
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> (Douglas) Harlan Lewis & M. Lewis	Four Spot	AH	Onagraceae	1					
<i>Clarkia</i> sp.1	Clarkia	AH	Onagraceae	1	1				
<i>Clarkia</i> sp.2	Clarkia	AH	Onagraceae	1					
<i>Clarkia</i> sp.3	Clarkia	AH	Onagraceae		1				
<i>Clarkia</i> sp.4	Clarkia	AH	Onagraceae			1			
<i>Clarkia</i> sp.5	Clarkia	AH	Onagraceae				1		

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<i>Clarkia speciosa</i> ssp. <i>nitens</i> (Harlan Lewis & M. Lewis) Harlan Lewis	Red Spot Clarkia	AH	Onagraceae		1				
<i>Clarkia speciosa</i> ssp. <i>polyantha</i> Harlan Lewis & M. Lewis	Red Spot Clarkia	AH	Onagraceae	1			1		
<i>Clarkia unguiculata</i> Lindley	Elegant Farewell-to-Spring	AH	Onagraceae	1	1		1		
<i>Claytonia exigua</i> Torrey & A. Gray ssp. <i>exigua</i>	Small Miner's Lettuce	AH	Portulacaceae	1	1	1	1	1	V
<i>Claytonia parviflora</i> Hook. ssp. <i>parviflora</i>	Small-flowered Miner's Lettuce	AH	Portulacaceae	1		1	1		V
<i>Claytonia parviflora</i> ssp. <i>viridis</i> (Davidson) John M. Miller & Chambers	Green Miner's Lettuce	AH	Portulacaceae				1		
<i>Claytonia perfoliata</i> Donn ex Willd. ssp. <i>perfoliata</i>	Miner's Lettuce	AH	Portulacaceae	1	1	1	1	1	V
<i>Claytonia perfoliata</i> ssp. ?	Miner's Lettuce	AH	Portulacaceae		1	1	1	1	
<i>Claytonia perfoliata</i> ssp. <i>intermontana</i> J.M. Miller & K.L. Chambers	Great Basin Miner's Lettuce	AH	Portulacaceae			1			V
<i>Claytonia perfoliata</i> ssp. <i>mexicana</i> John M. Mill. & K. L. Chambers	Mexican Miner's Lettuce	AH	Portulacaceae	1	1	1	1	1	
<i>Claytonia</i> sp.1	Miner's Lettuce	AH	Portulacaceae		1				
<i>Claytonia</i> sp.2	Miner's Lettuce	AH	Portulacaceae				1		
<i>Clematis ligusticifolia</i> (Nutt.)	Virgin's Bower	PV	Ranunculaceae				1		
<i>Cnicus benedictus</i> L. *	Blessed Thistle	AH	Asteraceae					1	
<i>Collinsia bartsiiifolia</i> Benth. var. <i>bartsiiifolia</i>	White Chinese Houses	AH	Plantaginaceae			1	1		V
<i>Collinsia bartsiiifolia</i> var. ?	White Collinsia	AH	Plantaginaceae			1	1	1	
<i>Collinsia bartsiiifolia</i> var. <i>davidsonii</i> (Parish) V. Newsom	Davidson White Chinese Houses	AH	Plantaginaceae	1		1		1	V
<i>Collinsia childii</i> A. Gray	Child Blue-eyed Mary	AH	Plantaginaceae						V
<i>Collinsia heterophylla</i> Buist var. <i>heterophylla</i>	Chinese Houses	AH	Plantaginaceae			1		1	V
<i>Collinsia</i> sp.	Collinsia	AH	Plantaginaceae	1		1	1		
<i>Convolvulus arvensis</i> L. *	Bindweed	AV	Convolvulaceae				1		
<i>Convolvulus simulans</i> Perry	Small Flowered Morning Glory	AH	Convolvulaceae		1				
<i>Conyza canadensis</i> (L.) Cronq.	Horseweed	AH	Asteraceae	1	1		1		
<i>Coreopsis bigloveii</i> (A. Gray) H.M. Hall	Bigelow Coreopsis	AH	Asteraceae			1	1	1	
<i>Coreopsis calliopsidea</i> (DC.) A. Gray	Leafy-stemmed Coreopsis	AH	Asteraceae				1		V
<i>Coreopsis</i> sp.	Coreopsis	AH	Asteraceae			1	1	1	
<i>Corethrogyne filaginifolia</i> (Hook. & Arn.) M.A. Lane var. ?	California Cudweed-aster	PH	Asteraceae	1	1	1	1	1	

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<i>Cotula coronopifolia</i> L.*	African Brass-buttons	AH	Asteraceae		1				
<i>Crassula connata</i> (Ruiz, Lopez & Pavon) A. Berger	Pygmy Sand-weed	AH	Crassulaceae	1	1		1		
<i>Croton californicus</i> Muell. Arg.	Desert Croton	PH	Euphorbiaceae	1					
<i>Crypsis schoenoides</i> (L.) Lam.	Swamp Grass	AG	Poaceae	1					
<i>Cryptantha barbiger</i> (A. Gray) E. Greene	Bearded Forget-Me-Not	AH	Boraginaceae			1			
<i>Cryptantha circumscissa</i> (Hook. & Arn.) I.M. Johnston	Circumsissal Forget-Me-Not	AH	Boraginaceae				1	1	
<i>Cryptantha decipiens</i> (M.E. Jones) Heller	Gravel Forget-Me-Not	AH	Boraginaceae			1			
<i>Cryptantha echinella</i> E. Greene	Prickly Cryptantha	AH	Boraginaceae			1	1		
<i>Cryptantha flaccida</i> (Lehm.) E. Greene	Flaccid Forget-Me-Not	AH	Boraginaceae	1					
<i>Cryptantha intermedia</i> (A. Gray) E. Greene	Common Forget-Me-Not	AH	Boraginaceae		1			1	
<i>Cryptantha mohavensis</i> (E. Greene) E. Greene	Mojave Forget-Me-Not	AH	Boraginaceae				1	1	
<i>Cryptantha muricata</i> (Hooker & Arnott) Nelson & Macbr.	Jones Prickly Forget-Me-Not	AH	Boraginaceae						V
<i>Cryptantha nevadensis</i> A. Nelson & Kennedy var. <i>nevadensis</i>	Nevada Forget-Me-Not	AH	Boraginaceae						V
<i>Cryptantha nevadensis</i> var. <i>rigida</i> I.M. Johnst.	Nevada Forget-Me-Not	AH	Boraginaceae	1			1	1	
<i>Cryptantha oxygona</i> (A. Gray) E. Greene	Sharp-not Forget-Me-Not	AH	Boraginaceae			1	1	1	
<i>Cryptantha pterocarya</i> (Torrey) E. Greene var. <i>pterocarya</i>	Wingnut Cryptantha	AH	Boraginaceae					1	
<i>Cryptantha simulans</i> E. Greene	Pine Forget-Me-Not	AH	Boraginaceae			1	1		
<i>Cryptantha</i> sp.1	a Forget-Me-Not	AH	Boraginaceae	1					
<i>Cryptantha</i> sp.2	a Forget-Me-Not	AH	Boraginaceae			1			
<i>Cryptantha</i> sp.3	a Forget-Me-Not	AH	Boraginaceae		1				
<i>Cryptantha</i> sp.4	a Forget-Me-Not	AH	Boraginaceae				1		
<i>Cryptantha</i> sp.5	a Forget-Me-Not	AH	Boraginaceae			1			
<i>Cryptantha</i> sp.6	a Forget-Me-Not	AH	Boraginaceae			1			
<i>Cryptantha</i> sp.7	a Forget-Me-Not	AH	Boraginaceae				1		
<i>Cryptantha</i> sp.8	a Forget-Me-Not	AH	Boraginaceae					1	
<i>Cucurbita foetidissima</i> Kunth	Calabazilla	PV	Cucurbitaceae	1	1		1	1	
<i>Cucurbita palmata</i> S. Watson	Coyote Melon	PV	Cucurbitaceae	1	1			1	V
<i>Cuscata californica</i> var. <i>papillosa</i> Yuncker	Papillose California Dodder	AV	Cuscutaceae		1				

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<i>Cynodon dactylon</i> (L.) Pers. *	Bermuda Grass	PG	Poaceae	1	1		1		
<i>Cyperus</i> sp.	a Sedge	PG	Cyperaceae		1				
<i>Datura wrightii</i> Regel	Jimson Weed	AH	Solanaceae	1	1	1	1	1	
<i>Daucus pusillus</i> Michaux	Southwestern Carrot	AH	Apiaceae	1					
<b><i>Deinandra arida</i> Keck</b>	<b>Red Rock Tarplant</b>	AH	Asteraceae	1					
<b><i>Deinandra pallida</i> (D. D. Keck) B. G. Baldwin</b>	<b>Kern Tarplant</b>	AH	Asteraceae	1	1				
<i>Deinandra</i> sp.1	a Tarplant	AH	Asteraceae	1	1				
<i>Delphinium gracilentum</i> Greene	Coast Larkspur	PH	Ranunculaceae			1	1		V
<i>Delphinium hansenii</i> (E. Greene) E. Greene ssp. <i>hansenii</i>	Hansen's Larkspur	PH	Ranunculaceae	1					
<b><i>Delphinium hansenii</i> ssp. <i>kernense</i> (Davidson) Ewan</b>	<b>Kern Larkspur</b>	PH	Ranunculaceae	1	1		1	1	
<i>Delphinium parishii</i> A. Gray ssp. <i>parishii</i>	Parish Larkspur	PH	Ranunculaceae						V
<b><i>Delphinium parryi</i> ssp. <i>purpureum</i> (H. Lewis &amp; Epling) M.J. Warnock</b>	<b>Mount Piños Larkspur</b>	PH	Ranunculaceae				1		
<i>Delphinium</i> sp.	a Larkspur	PH	Ranunculaceae		1	1	1		
<i>Dendromecon rigida</i> Benth.	Bush Poppy	S	Papaveraceae				1		
<i>Descurainia pinnata</i> (Walter) Britton ssp. ? ( <i>glabra</i> ro <i>menziesii</i> )	Western Tansy Mustard	AH	Brassicaceae		1	1	1		
<i>Descurainia sophia</i> (L.) Webb ex Prantl *	Flix Weed	AH	Brassicaceae			1	1		
<i>Dicentra chrysantha</i> (Hook. & Arn.) Walp. [ <i>Ehrendorferia chrysantha</i> ]	Golden Ear Drops	PH	Papaveraceae	1					
<i>Dichelostemma capitatum</i> Alph. Wood ssp. <i>capitatum</i>	Blue Dicks	PG	Themidaceae	1	1	1	1	1	
<i>Distichlis spicata</i> (L.) E. Greene	Saltgrass	PG	Poaceae		1	1	1		
<i>Draba cuneifolia</i> Torrey & A. Gray	Wedgeleaf Draba	AH	Brassicaceae				1		
<i>Draba</i> sp.	a Draba	AH	Brassicaceae		1				
<i>Draba verna</i> L.	Vernal Whitlow-grass	AH	Brassicaceae		1				
<i>Dudleya cymosa</i> (Lemaire) Britton & Rose ssp. <i>cymosa</i>	Canyon Live-forever	PH	Crassulaceae		1		1		
<i>Dudleya lanceolata</i> (Nutt.) Britton & Rose	Lanceleaf Live-forever	PH	Crassulaceae			1	1	1	
<i>Dudleya</i> sp.	Live-forever	PH	Crassulaceae			1	1		
<i>Eastwoodia elegans</i> Brandegee	Yellow Mock Aster	S	Asteraceae	1				1	V
<i>Echinochloa colona</i> (L.) Link *	Awnless Barnyard Grass	PG	Poaceae	1					
<i>Echinochloa crus-galli</i> (L.) P. Beauv. var. <i>crus-galli</i> *	Barnyard Grass	AG	Poaceae		1				

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<i>Eleocharis acicularis</i> (L.) Roemer & Schultes var. <i>acicularis</i>	Slender Spike-rush	PG	Cyperaceae		1				
<i>Eleocharis macrostachya</i> Britt.	Common Spike-rush	PG	Cyperaceae	1	1		1		
<i>Eleocharis parishii</i> Britt.	Parish Spike-rush	PG	Cyperaceae	1	1	1	1		
<i>Eleocharis rostellata</i> (Torrey) Torrey	Walking Sedge	PG	Cyperaceae				1		
<i>Eleocharis</i> sp.	Spike-rush	PG	Cyperaceae		1		1		
<i>Elymus elymoides</i> (Raf.) Swezey ssp. <i>elymoides</i>	Squirreltail	PG	Poaceae	1		1	1	1	
<i>Elymus elymoides</i> ssp. ?	Squirreltail	PG	Poaceae			1	1	1	
<i>Elymus glaucus</i> Buckl. ssp. <i>glaucus</i>	Blue or Woodland Wildrye	PG	Poaceae		1	1	1	1	V
<i>Elymus multisetus</i> (J.G. Smith) Burt Davy	Big Squirreltail	PG	Poaceae	1			1	1	V
<i>Elymus</i> sp.		PG	Poaceae	1		1	1	1	
<i>Elymus stebbinsii</i> (Scribner & J.G. Smith) Gould ssp. <i>stebbinsii</i>	Wheatgrass	PG	Poaceae						V
<i>Emmenanthe penduliflora</i> Benth. var. <i>penduliflora</i>	Whispering Bells	AH	Boraginaceae	1	1		1	1	
<i>Encelia actoni</i> Elmer	Acton Encelia	S	Asteraceae				1	1	
<i>Encelia farinosa</i> Torrey & A. Gray	Brittlebush	S	Asteraceae					1	
<i>Ephedra nevadensis</i> S. Watson	Nevada Mormon Tea	S	Ephedraceae					1	
<i>Ephedra</i> sp.	a Mormon Tea	S	Ephedraceae				1	1	
<i>Ephedra viridis</i> Cov.	Green Mormon Tea	S	Ephedraceae				1	1	
<i>Epilobium brachycarpum</i> C. Presl	Panicled Willow-herb	AH	Onagraceae						V
<i>Epilobium canum</i> (E. Greene) Raven ssp. ?	California Fuchsia?	PH	Onagraceae		1		1		
<i>Epilobium ciliatum</i> Raf. ssp. <i>ciliatum</i>	Northern Willow-herb	AH	Onagraceae		1		1		
<i>Epilobium</i> sp.	a Willow-herb		Onagraceae			1			
<i>Equisetum arvense</i> L.	Common or Field Horsetail	PF	Equisetaceae				1		
<i>Equisetum laevigatum</i> A. Braun	Smooth Scouring Rush	PF	Equisetaceae				1		
<i>Equisetum</i> sp.1	a Horsetail	PF	Equisetaceae				1		
<i>Equisetum</i> sp.2	a Horsetail	PF	Equisetaceae				1		
<i>Eremalche exilis</i> (A. Gray) E. Greene	Desert Mallow	AH	Malvaceae		1				
<i>Eremalche parryi</i> (E. Greene) E. Greene	Parry's Mallow	AH	Malvaceae	1					
<i>Eremocarpus setigerus</i> (Hooker) Bentham [ <i>Croton setigerus</i> ]	Dove Weed	AH	Euphorbiaceae	1	1	1	1	1	

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<i>Eriastrum densifolium</i> (Benth.) H. Mason ssp. <i>densifolium</i>	Giant Wool Star	PH	Polemoniaceae					1	
<i>Eriastrum densifolium</i> ssp. <i>mohavense</i> (Craig) H. Mason	Mojave Woolly Star	PH	Polemoniaceae			1		1	
<b><i>Eriastrum hooveri</i> (Jepson) H. Mason</b>	<b>Hoover Woolly Star</b>	AH	Polemoniaceae	1					
<i>Eriastrum sapphirinum</i> ssp. <i>ambiguum</i> (M.E. Jones) H. Mason	Sapphire Woolly Star	AH	Polemoniaceae					1	
<i>Eriastrum</i> sp.	a Woolly Star	AH	Polemoniaceae	1		1	1	1	
<i>Ericameria cooperi</i> (A. Gray) H.M. Hall var. <i>cooperi</i>	Cooper's Goldenbush	S	Asteraceae					1	
<i>Ericameria linearifolia</i> (DC.) Urb. & Wussow	Linear-leaved Goldenbush	S	Asteraceae			1	1	1	
<i>Ericameria linearifolia</i> X <i>Ericameria cooperi</i> (A. Gray) H.M. Hall	Narrowleaf Goldenbush	S	Asteraceae					1	
<i>Ericameria nauseosa</i> (Pallas ex Pursh) G.L. Nesom & G.I. Baird Britton ssp. ?	Rubber Rabbitbrush	S	Asteraceae			1	1	1	
<i>Ericameria nauseosa</i> var. <i>hololeuca</i> (A. Gray) G.L. Nesom & G.I. Baird	Whitestem Rubber Rabbitbrush	S	Asteraceae			1	1	1	
<i>Ericameria nauseosa</i> var. <i>mohavensis</i> (Greene) G.L. Nesom & G.I. Baird	Mojave Rubber Rabbitbrush	S	Asteraceae			1			V
<i>Ericameria palmeri</i> (A. Gray) H.M. Hall var. ?	Palmer's Goldenbush	S	Asteraceae				1		
<i>Ericameria</i> sp.	a Goldenbush	S	Asteraceae				1	1	
<i>Erigeron foliosus</i> Nutt. var. <i>foliosus</i>	Leafy Fleabane or Daisy	PH	Asteraceae	1	1	1	1	1	
<i>Eriodictyon californicum</i> (Hook.& Arn.) Torr.	California Yerba Santa	S	Boraginaceae	1					
<i>Eriogonum angulosum</i> Benth.	Angle-stemmed Buckwheat	AH	Polygonaceae		1		1	1	
<i>Eriogonum baileyi</i> S. Watson var. <i>baileyi</i>	Bailey Buckwheat	AH	Polygonaceae				1	1	
<i>Eriogonum cithariforme</i> var. <i>agninum</i> (E. Greene) Rev.	Cithara Buckwheat	AH	Polygonaceae			1		1	
<i>Eriogonum davidsonii</i> E. Greene cf	Davidson Buckwheat	AH	Polygonaceae				1	1	
<i>Eriogonum elongatum</i> Benth. var. <i>elongatum</i>	Long-stemmed Buckwheat	PH	Polygonaceae	1		1	1	1	
<i>Eriogonum fasciculatum</i> var. <i>polifolium</i> (A. DC.) Torrey & A. Gray	California Wild Buckwheat	S	Polygonaceae	1	1	1	1	1	
<i>Eriogonum gracillimum</i> S. Watson	Slender Buckwheat	AH	Polygonaceae	1				1	
<i>Eriogonum heermannii</i> Durand & Hilg.	Heermann's Buckwheat	S	Polygonaceae			1		1	
<i>Eriogonum inflatum</i> (?) var. ?	Desert Trumpet?	A/PH	Polygonaceae					1	
<i>Eriogonum kennedyi</i> ?	Kennedy's Buckwheat	PH	Polygonaceae					1	
<i>Eriogonum maculatum</i> A.A. Heller	Angle Stermed Buckwheat	PH	Polygonaceae				1	1	
<i>Eriogonum mohavense</i> S. Watson cf	Western Mojave Buckwheat	AH	Polygonaceae					1	

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<i>Eriogonum nudum</i> var. ?	Barestem Buckwheat	PH	Polygonaceae					1	
<i>Eriogonum nudum</i> var. <i>pauciflorum</i> S. Watson	Tibinagua	PH	Polygonaceae			1	1	1	
<i>Eriogonum ordii</i> S. Watson	Ord Buckwheat	AH	Polygonaceae						V
<i>Eriogonum palmerianum</i> Munz	Palmer's Buckwheat	AH	Polygonaceae		1				
<i>Eriogonum pusillum</i> Torrey & A. Gray	Puny Eriogonum	AH	Polygonaceae				1	1	
<i>Eriogonum roseum</i> Durand & Hilg.	Wand Buckwheat	AH	Polygonaceae	1			1	1	
<i>Eriogonum</i> sp.1 cf <i>angulosum</i>	a Buckwheat	AH	Polygonaceae			1		1	
<i>Eriogonum</i> sp.2	Buckwheat		Polygonaceae	1					
<i>Eriogonum</i> sp.2	a Buckwheat	AH	Polygonaceae			1			
<i>Eriogonum</i> sp.3 cf <i>elongatum</i>	a Buckwheat	PH	Polygonaceae			1			
<i>Eriogonum</i> sp.4 cf <i>heermannii</i>	a Buckwheat	PH	Polygonaceae			1	1		
<i>Eriogonum</i> sp.5 cf <i>davidsonii</i>	a Buckwheat	AH	Polygonaceae			1			
<i>Eriogonum</i> sp.6	Buckwheat		Polygonaceae		1				
<i>Eriogonum</i> sp.7	Buckwheat	AH	Polygonaceae			1			
<i>Eriogonum</i> sp.8	Buckwheat	AH	Polygonaceae				1		
<i>Eriogonum</i> sp.9	Buckwheat	AH	Polygonaceae					1	
<i>Eriogonum viridescens</i> A.A. Heller	Slender Eriogonum	AH	Polygonaceae				1	1	
<i>Eriogonum wrightii</i> var. <i>subscaposum</i> S. Watson	Wright's Buckwheat	PH/ S	Polygonaceae				1	1	
<i>Eriophyllum ambiguum</i> (A. Gray) A. Gray var. ?	Annual Woolly Sunflower	AH	Asteraceae			1		1	V
<i>Eriophyllum ambiguum</i> (A. Gray) A. Gray var. <i>ambiguum</i>	Annual Woolly Sunflower	AH	Asteraceae				1	1	
<i>Eriophyllum ambiguum</i> var. <i>paleaceum</i> (Brandege) Ferris	Annual Woolly Sunflower	AH	Asteraceae			1			
<i>Eriophyllum confertiflorum</i> (DC.) A. Gray var. <i>confertiflorum</i>	Golden Yarrow	PH	Asteraceae	1		1	1	1	
<i>Eriophyllum pringlei</i> A. Gray	Pringle's Woolly Sunflower	AH	Asteraceae					1	
<i>Eriophyllum</i> sp.1	Yarrow	AH	Asteraceae				1	1	
<i>Eriophyllum wallacei</i> (A. Gray) A. Gray ?	Wallace's Woolly Daisy	AH	Asteraceae					1	
<i>Erodium botrys</i> (Cav.) Bertol. *	Broadleaf Filaree	AH	Geraniaceae	1	1		1		
<i>Erodium cicutarium</i> (L.) L'Her *	Redstem Filaree	AH	Geraniaceae	1	1	1	1	1	
<i>Erodium moschatum</i> (L.) L'Her *	Whiteleaf Filaree	AH	Geraniaceae	1	1				

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<i>Erysimum capitatum</i> (Douglas) E. Greene ssp. <i>capitatum</i>	Western Wallflower	PH	Brassicaceae	1		1	1	1	
<i>Erysimum capitatum</i> ssp. <i>capitatum</i> forma <i>tejonensis</i>	Tejon Wallflower	BH	Brassicaceae				1		
<i>Eschscholzia caespitosa</i> Benthham ssp. <i>caespitosa</i>	Tufted Poppy	BH	Papaveraceae						V
<i>Eschscholzia californica</i> Chamisso in C.G.D. ssp. <i>californica</i>	California Poppy	AH	Papaveraceae	1	1	1	1	1	V
<i>Eschscholzia lemmonii</i> Greene ssp. <i>lemmonii</i>	Lemmon Poppy	AH	Papaveraceae						V
<b><i>Eschscholzia lemmonii</i> ssp. <i>kernensis</i> (Munz) C. Clark</b>	<b>Tejon Poppy</b>	AH	Papaveraceae						V
<i>Eschscholzia</i> sp.1	a Poppy	AH	Papaveraceae				1		
<i>Eucalyptus camaldulensis</i> Dehnhardt *	River Red Gum	T	Myrtaceae		1				V
<i>Euthamia occidentalis</i> Nutt.	Western Goldenrod	PH	Asteraceae					1	
<i>Ficus carica</i> L. *	Common Edible Fig	S	Moraceae		1				
<i>Filago californica</i> Nutt.	California Filago	AH	Asteraceae	1	1	1	1		
<i>Filago gallica</i> L. *	Woolly Filago	AH	Asteraceae	1	1				
<i>Filago</i> sp.1	a Filago	AH	Asteraceae	1					
<i>Forestiera pubescens</i> Nuttall	Desert Olive	S	Oleaceae			1	1	1	
<i>Fraxinus latifolia</i> Benth.	Oregon Ash	T	Oleaceae				1		
<i>Fraxinus velutina</i> Torrey	Velvet or Arizona Ash	T	Oleaceae				1		
<i>Fremontodendron californicum</i> (Torrey) Cov.	California Flannel Bush	S	Sterculiaceae	1			1	1	
<b><i>Fritillaria striata</i> Eastwood</b>	<b>Striped Adobe-lily</b>	PG	Liliaceae		1				V
<i>Galium andrewsii</i> ssp. ?	Pine Mat	PH	Rubiaceae		1		1	1	
<i>Galium angustifolium</i> Nutt. ssp. ?	Chaparral Bedstraw	PH	Rubiaceae			1	1	1	
<i>Galium angustifolium</i> Nutt. ssp. <i>angustifolium</i>	Narrowleaf Bedstraw	PH	Rubiaceae				1		
<i>Galium aparine</i> L.	Goosegrass	AH	Rubiaceae	1	1	1	1		
<i>Galium bolanderi</i> A. Gray	Bolander Bedstraw	PH	Rubiaceae						V
<i>Galium parisiense</i> L. *	Wall Bedstraw	AH	Rubiaceae				1		
<i>Galium</i> sp.1	a Bedstraw		Rubiaceae	1	1		1		
<i>Galium</i> sp.2	Bedstraw		Rubiaceae	1					
<i>Galium</i> sp.3	Bedstraw		Rubiaceae				1		
<i>Garrya flavescens</i> ssp. <i>pallida</i> (Eastwood) Dahling	Pallid Silk-tassel Bush	S	Garryaceae	1		1	1	1	



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<i>Geranium molle</i> L. *	Annual Cranesbill	AH	Geraniaceae		1				
<i>Gilia brecciarum</i> M.E. Jones ssp. ?	Small Gilia	AH	Polemoniaceae			1			
<i>Gilia brecciarum</i> M.E. Jones ssp. <i>brecciarum</i>	Breccia Gilia	AH	Polemoniaceae			1	1	1	V
<i>Gilia brecciarum</i> ssp. <i>neglecta</i> A.D. Grant & V. Grant	Nevada Gilia	AH	Polemoniaceae					1	
<i>Gilia cana</i> ssp. ?	Showy Gilia	AH	Polemoniaceae			1		1	
<i>Gilia capitata</i> Sims ssp. <i>capitata</i>	Blue Field Gilia	AH	Polemoniaceae			1	1		
<i>Gilia capitata</i> ssp. <i>abrotanifolia</i> (E. Greene) V.E. Grant	Blue Field Gilia	AH	Polemoniaceae	1	1	1	1	1	V
<i>Gilia capitata</i> ssp. <i>staminea</i> (E. Greene) V.E. Grant	Globe Gilia	AH	Polemoniaceae						V
<i>Gilia latiflora</i> S. Watson ssp. <i>latiflora</i>	Hollyleaf Gilia	AH	Polemoniaceae					1	V
<i>Gilia latiflora</i> ssp. <i>davyi</i> (Milliken) A. & V. Grant	Davy Broad-flowered Gilia	AH	Polemoniaceae			1		1	V
<i>Gilia ochroleuca</i> M.E. Jones ssp. <i>bizonata</i> A.D. Grant & V. Grant	Ochra Gilia	AH	Polemoniaceae			1		1	
<i>Gilia ochroleuca</i> ssp. <i>vivida</i> (A.D. Grant & V. Grant) A.D. Grant & V. Grant	Volcanic Gilia	AH	Polemoniaceae			1			
<i>Gilia</i> sp.1	Gilia	AH	Polemoniaceae		1			1	
<i>Gilia</i> sp.1	Gilia	AH	Polemoniaceae	1					
<i>Gilia</i> sp.2	Gilia	AH	Polemoniaceae			1	1		
<i>Gilia</i> sp.2	Gilia	AH	Polemoniaceae			1			
<i>Gilia</i> sp.3	Gilia	AH	Polemoniaceae				1	1	
<i>Gilia tetrabreccia</i> A. & V. Grant	Mount Piños Gilia	AH	Polemoniaceae						V
<i>Gilia tricolor</i> Bentham ssp. <i>tricolor</i>	Birds-eye or Tricolor Gilia	AH	Polemoniaceae	1	1	1	1	1	
<i>Gilia tricolor</i> ssp. ?	Birds-eye Gilia	AH	Polemoniaceae	1	1			1	
<i>Gilia tricolor</i> ssp. <i>diffusa</i> (Congdon) H. Mason & A.D. Grant	Diffuse Birds-eye Gilia	AH	Polemoniaceae						V
<i>Gnaphalium palustre</i> Nutt.	Lowland Cudweed	AH	Asteraceae	1			1	1	
<i>Grindelia camporum</i> var. <i>bracteosum</i> (J. Howell) M.A. Lane	Bracted Gumplant	PH	Asteraceae				1		
<i>Grindelia</i> sp.	Gumweed, Gumplant	PH	Asteraceae				1		
<i>Guillenia laiosphyllum</i> (Hook. & Arn.) E. Greene	California Mustard	AH	Brassicaceae		1	1	1	1	
<i>Gutierrizia californica</i> (de Candolle) Torrey & A. Gray	California Matchweed	S	Asteraceae	1					
<i>Gutierrizia sarothrae</i> (Pursh) Britton & Rusby	Common Snakeweed	S	Asteraceae				1	1	
<i>Helianthus annuus</i> L.	Annual Sunflower	AH	Asteraceae		1		1	1	

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<i>Helianthus cf. gracilentus</i> A. Gray	Slender Sunflower	PH	Asteraceae				1	1	
<i>Helianthus</i> sp.1	Perennial Sunflower	PH	Asteraceae	1	1		1	1	
<i>Heliotropium curassavicum</i> L.	Salt Heliotrope	PH	Boraginaceae		1		1		
<i>Herniaria hirsuta</i> ssp. <i>cinerea</i> (DC.) Coutinho *	Hairy Herniawort	AH	Caryophyllaceae	1					
<i>Hesperomecon linearis</i> (Benth.) Greene	Western Poppy	AH	Papaveraceae						V
<i>Hesperoyucca whipplei</i> (Torr.) Baker	Our Lord's Candle	S	Agavaceae			1	1		
<i>Heterotheca grandiflora</i> Nutt.	Telegraph Weed	A/PH	Asteraceae				1		
<i>Heterotheca sessiliflora</i> (Nutt.) Shinn. ssp. ?	a Golden-aster	A/PH	Asteraceae			1	1		
<i>Heterotheca sessiliflora</i> ssp. <i>echioides</i> (Benth.) Semple	Bristly Golden-aster	PH	Asteraceae				1		
<i>Heterotheca villosa</i> (Pursh) Shinn. ssp. <i>villosa</i>	Woolly Golden-aster	PH	Asteraceae			1	1	1	
<i>Hirschfeldia incana</i> (L.) Lagr.-Fossat *	Summer Mustard	BH	Brassicaceae	1	1	1	1	1	
<i>Holocarpha heermannii</i> (E. Greene) Keck	Heermann Tarplant	AH	Asteraceae	1	1			1	V
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> (Parl.) Thell *	Mediterranean Barley	AG	Poaceae	1			1		
<i>Hordeum murinum</i> ssp. <i>leporinum</i> (Link) Arcang. *	Hare Barley	AG	Poaceae	1	1	1	1	1	
<i>Hordeum</i> sp. *	a Barley	AG	Poaceae	1	1		1	1	
<i>Hydrocotyle ranunculoides</i> L.f.	Floating Pennywort	PH	Apiaceae		1				
<i>Hydrocotyle verticillata</i> Thunb.	Whorled Marsh Pennywort	PH	Ranunculaceae		1				
<i>Hymenoclea salsola</i> A. Gray var. <i>salsola</i>	Burrobrush	S	Asteraceae				1	1	
<i>Hypericum formosum</i> var. <i>scouleri</i> (Hook.) J. Coulter	Scouler's St. John's Wort	PH	Hypericaceae				1		
<i>Hypericum perforatum</i> L.	Klamath Weed	PH	Hypericaceae				1		
<i>Hypochaeris glabra</i> L. *	Smooth Cat's-ear	AH	Asteraceae	1	1				
<i>Iris</i> sp.	an Iris	PG	Iridaceae				1		
<i>Isocoma acradenia</i> (E. Greene) E. Greene	Alkali Goldenbush	S	Asteraceae		1		1		
<i>Isocoma acradenia</i> var. <i>eremophila</i> (Greene) G. L. Nesom	Desert Goldenbush	S	Asteraceae		1				
<i>Isomeris arborea</i> Nutt. var. ?	Bladderpod	S	Capperaceae		1	1	1		
<i>Isomeris arborea</i> var. <i>globosa</i> Coville	Globe Bladderpod	S	Capperaceae	1					
<i>Isopyrum occidentale</i>	Western Rue-anemone	PH	Ranunculaceae		1				V
<i>Iva axillaris</i> ssp. <i>robustior</i> (Hook.) Bassett	Povertyweed	PH	Asteraceae				1		

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<i>Juncus balticus</i> Willd var. <i>balticus</i>	Baltic Rush	PG	Juncaceae		1	1	1		
<i>Juncus bufonius</i> L. var. ?	Toad Rush	AG	Juncaceae				1		
<i>Juncus bufonius</i> L. var. <i>bufonius</i>	Toad Rush	AH	Juncaceae		1	1	1		
<i>Juncus bufonius</i> L. var. <i>congestus</i> Wahlenb.	Custered Toad Rush	AH	Juncaceae		1	1			
<i>Juncus bufonius</i> L. var. <i>occidentalis</i> F.J. Herm.	Western Toad Rush	AG	Juncaceae	1	1				
<i>Juncus ensifolius</i> Wikstrom	Swordleaf Rush	PG	Juncaceae		1		1		
<i>Juncus mexicanus</i> Willd.	Wire Grass	PG	Juncaceae		1	1	1	1	
<i>Juncus oxymers</i> Engelm.	Pointed Rush	PH	Juncaceae		1		1	1	
<i>Juncus rugulosus</i> Engelm.	Wrinkled Rush	PH	Juncaceae				1		
<i>Juncus</i> sp.	a Rush	PG	Juncaceae		1	1	1		
<i>Juncus textilis</i> Buchenau	Basket Rush	PH	Juncaceae				1		
<i>Juncus textilis</i> Buchenau cf	Basket Rush	PG	Juncaceae			1			
<i>Juncus torreyi</i> Cov.	Torrey's Rush	PG	Juncaceae		1		1		
<i>Juncus xiphioides</i> E. Meyer	Iris Leaved Rush	PH	Juncaceae		1		1		
<i>Juniperus californica</i> Carrière	California Juniper	S	Cupressaceae			1	1	1	
<i>Keckiella breviflora</i> (Lindley) Straw var. <i>breviflora</i>	Stubflower Penstemon	S	Plantaginaceae		1		1		
<i>Keckiella breviflora</i> var. <i>glabrisepala</i> (Keck) N. Holmgren	Hairless Gaping Keckiella	S	Plantaginaceae		1				
<i>Koeleria macrantha</i> (Ledeb.) J.A. Shultes	June Grass	PG	Poaceae	1					
<i>Koeleria phleoides</i> (Vill.) Pers. *	Mediterranean Hairgrass	AG	Poaceae		1				
<i>Krascheninnikovia lanata</i> (Pursh) A.D.J. Meeuse & Smit	Winter Fat	S	Chenopodiaceae		1				
<i>Lactuca serriola</i> L. *	Prickly Wild Lettuce	AH	Asteraceae	1	1		1		
<i>Lagophylla ramosissima</i> Nutt. ssp. <i>ramosissima</i>	Common Hareleaf	AH	Asteraceae	1	1	1	1		
<i>Lamarckia aurea</i> (L.) Moench *	Goldentop	AG	Poaceae	1	1	1		1	V
<i>Lamium amplexicaule</i> L.*	Henbit	AH	Lamiaceae		1				V
<i>Larrea tridentata</i> (DC.) Cov.	Creosote Bush	S	Zygophyllaceae				1	1	
<i>Lasthenia californica</i> Lindley	Common Goldfields	AH	Asteraceae		1				
<i>Lasthenia gracilis</i> Lindley	Southern California Goldfields	AH	Asteraceae		1	1	1	1	
<i>Lathyrus vestitus</i> Nutt. var. ?	Pacific Peavine	PV	Fabaceae				1		

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<i>Layia glandulosa</i> (Hook.) Hook. & Arn. ssp. <i>glandulosa</i>	White Layia	AH	Asteraceae			1	1	1	V
<b><i>Layia leucopappa</i></b>	<b>Comanche Point Tidy Tips</b>	AH	Asteraceae						V
<i>Layia pentachaeta</i> ssp. ?	a Tidy Tips	AH	Asteraceae					1	
<i>Layia pentachaeta</i> ssp. <i>albida</i> Keck	White Tidy Tips	AH	Asteraceae		1				
<i>Layia pentachaeta</i> ssp. <i>pentachaeta</i>	Sierra Tidy Tips	AH	Asteraceae						V
<i>Layia platyglossa</i> (Fischer & C. Meyer) A. Gray	Tidy Tips	AH	Asteraceae					1	V
<i>Layia</i> sp.1	a Tidy Tips	AH	Asteraceae			1	1	1	
<i>Layia</i> sp.2	a Tidy Tips	AH	Asteraceae		1				
<i>Lemna minuscula</i> Herter	Duck Weed	AH	Lemnaceae	1	1		1		
<i>Lepidium latifolium</i> L. *	Broadleaf Peppergrass	PH	Brassicaceae				1		
<i>Lepidium nitidum</i> Torrey & A. Gray var. <i>nitidum</i>	Common Peppergrass	AH	Brassicaceae	1	1		1	1	V
<i>Lepidium</i> sp.1	Peppergrass	AH	Brassicaceae		1		1		
<i>Lepidospartum squamatum</i> (A. Gray) A. Gray	Scalebroom	S	Asteraceae	1			1		
<i>Leptosiphon pygmaeus</i> ssp. <i>continentalis</i> (P. Raven) Porter & Johnson	Pygmy Linanthus	AH	Polemoniaceae		1				
<i>Lessingia lemmonii</i> var. <i>peirsonii</i> (J.T. Howell) Ferris	Peirson Lessingia	AH	Asteraceae						
<i>Lessingia glandulifera</i> A. gray var. <i>glandulifera</i>	StickyLessingia	AH	Asteraceae					1	
<i>Leymus condensatus</i> (C. Presl) A. Löve	Giant Wildrye	PG	Poaceae			1	1	1	
<i>Leymus triticoides</i> (Buckley) Pilger	Valley Wild Rye, Alkali Rye	PG	Poaceae		1		1		
<i>Linanthus aureus</i> (Nutt.) E. Greene ssp. <i>aureus</i>	Golden Linanthus	AH	Polemoniaceae			1	1		
<i>Linanthus bicolor</i> (Nutt.) Greene	Bicolored Linanthus	AH	Polemoniaceae	1	1				V
<i>Linanthus dichotomus</i> Benth.	Evening Snow	AH	Polemoniaceae		1	1	1	1	V
<i>Linanthus liniflorus</i> (Benth) E. Greene	Flax-flowered Linanthus	AH	Polemoniaceae				1		
<i>Linanthus parviflorus</i> (Benth.) E. Greene	Yellow Linanthus	AH	Polemoniaceae	1		1	1	1	
<i>Linanthus</i> sp.1	a Linanthus	AH	Polemoniaceae	1					
<i>Linanthus</i> sp.2	a Linanthus	AH	Polemoniaceae			1			
<i>Lithophragma bolanderi</i> A. Gray	Bolander Woodland Star	PH	Saxifragaceae		1				
<i>Lithophragma parviflorum</i> (Hook.) T. & G. var. <i>parviflorum</i>	Prairie Star	PH	Saxifragaceae	1	1				V
<i>Loeflingia squarrosa</i> Nutt.	Spreading Loeflingia	AH	Caryophyllaceae	1					

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<i>Loeseliastrum matthewsii</i> (A. Gray) S. Timbrook	Desert Calico	AH	Polemoniaceae				1	1	
<i>Lolium multiflorum</i> Lam. *	Italian Ryegrass	AG	Poaceae		1				
<i>Lomatium dasycarpum</i> (Torr. & A. Gray) J. Coulter & Rose ssp. <i>dasycarpum</i>	Woolly Fruited Lomatium	PH	Apiaceae				1		
<i>Lomatium dasycarpum</i> ssp. <i>tomentosum</i> (Benth.) Theob.	Woollyfruit Desert Parsley	PH	Apiaceae	1	1		1	1	
<i>Lomatium dissectum</i> var. <i>multifidum</i> (Torr. & A. Gray) Mathias & Constance	Fern-leaved Lomatium	PH	Apiaceae		1		1		
<i>Lomatium mohavense</i> (J. Coulter & Rose) J. Coulter & Rose	Mojave Lomatium	PH	Apiaceae					1	
<i>Lomatium</i> sp.1	Lomatium	PH	Apiaceae	1					
<i>Lomatium</i> sp.2	Lomatium	PH	Apiaceae		1	1			
<i>Lomatium</i> sp.3	Lomatium	PH	Apiaceae				1		
<i>Lomatium utriculatum</i> (T. & G.) Coulter & Rose [ <i>L. vaseyi</i> ]	Foothill Lomatium	PH	Apiaceae	1	1	1	1	1	V
<i>Lonicera interrupta</i> Benth.	Chaparral Honeysuckle Southern or San Diego	S	Caprifoliaceae	1			1		
<i>Lonicera subspicata</i> var. <i>denudata</i> Rehder	Honeysuckle	S	Caprifoliaceae			1			
<i>Lotus corniculatus</i> L. *	Bird's Foot Trefoil	PH	Fabaceae				1		
<i>Lotus grandiflorus</i> (Benth.) E. Greene var. ?	Large Leaved Lotus	PH	Fabaceae			1			
<i>Lotus heermannii</i> (Durand & Hilg.) E. Greene	Heermann's Lotus	PH	Fabaceae		1				
<i>Lotus humistratus</i> E. Greene	Hill Lotus	AH	Fabaceae	1	1		1	1	
<i>Lotus procumbens</i> (E.Greene) E. Greene ssp. ? 1	Silky California Broom	PH/ S	Fabaceae				1		
<i>Lotus procumbens</i> (E.Greene) E. Greene ssp. ? 2	Silky California Broom	PH/ S	Fabaceae					1	
<i>Lotus purshianus</i> (Benth.) Clements & E.G. Clements var. <i>purshianus</i>	Spanish Clover	AH	Fabaceae	1	1		1		
<i>Lotus salsuginosus</i> E. Greene var. <i>salsuginosus</i>	Coastal Lotus or Hosackia	AH	Fabaceae					1	
<i>Lotus scoparius</i> (Nutt.) Otlely var. <i>scoparius</i>	Deerweed	S	Fabaceae	1	1	1			
<i>Lotus</i> sp.1	a Lotus	AH	Fabaceae	1					
<i>Lotus</i> sp.2	a Lotus	AH	Fabaceae		1				
<i>Lotus</i> sp.3	a Lotus	AH	Fabaceae			1			
<i>Lotus</i> sp.4	a Lotus	AH	Fabaceae				1		
<i>Lotus</i> sp.5	a Lotus	AH	Fabaceae					1	
<i>Lotus strigosus</i> (Nutt.) E. Greene	Strigose Lotus	AH	Fabaceae	1	1	1	1	1	

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<i>Lotus wrangelianus</i> Fischer & C. Meyer	Chile Lotus or Hosackia	AH	Fabaceae	1	1		1		V
<i>Lupinus benthamii</i> A.A. Heller var. <i>benthamii</i>	Spider Lupine	AH	Fabaceae	1	1	1	1	1	V
<i>Lupinus benthamii</i> var. <i>opimus</i> C.P. Sm.	Spider Lupine	AH	Fabaceae	1	1			1	V
<i>Lupinus bicolor</i> Lindley	Sky Lupine	AH	Fabaceae	1	1	1	1	1	
<i>Lupinus concinnus</i> J. Agardh	Bajada Lupine	AH	Fabaceae			1	1	1	
<b><i>Lupinus excubitus</i> var. <i>austromontanus</i> (A.A. Heller) C.P. Smith</b>	<b>Southern Mtn. Bush Lupine</b>	S	Fabaceae			1	1	1	V
<i>Lupinus formosus</i> E. Greene var. <i>formosus</i>	Summer Bush Lupine	S	Fabaceae	1		1	1		
<i>Lupinus microcarpus</i> Sims var. <i>microcarpus</i>	Red-flowered Lupine	AH	Fabaceae	1	1	1	1	1	V
<i>Lupinus microcarpus</i> var. ? 1	Bajada Lupine	AH	Fabaceae	1			1	1	
<i>Lupinus microcarpus</i> var. <i>horizontalis</i> (A.A. Heller) Jepson	Chick Lupine	AH	Fabaceae	1					
<i>Lupinus nanus</i> Benth.	Small Lupine	AH	Fabaceae	1	1				V
<i>Lupinus pachylobus</i> E. Greene	Big Pod Lupine	AH	Fabaceae		1				
<i>Lupinus</i> sp.1	a Lupine	AH	Fabaceae	1	1	1	1	1	
<i>Lupinus</i> sp.2	a Lupine	AH	Fabaceae			1			
<i>Lupinus</i> sp.3	a Lupine	AH	Fabaceae	1					
<i>Lupinus</i> sp.4	a Lupine	AH	Fabaceae		1				
<i>Lupinus</i> sp.5	a Lupine	AH	Fabaceae			1			
<i>Lupinus</i> sp.6	a Lupine	AH	Fabaceae				1		
<i>Lupinus</i> sp.7	a Lupine	AH	Fabaceae					1	
<i>Lupinus sparsiflorus</i> Benth	Few-flowered Lupine	AH	Fabaceae	1	1				
<i>Lupinus truncatus</i> Hook. & Arn.	Truncate Lupine	AH	Fabaceae					1	
<i>Lycium cooperi</i> A. Gray	Cooper's Lycium	S	Solanaceae				1		V
<i>Lythrum californicum</i> T. & G.	California Loosestrife	PH	Lythraceae		1		1	1	
<i>Madia elegans</i> Lindley ssp. <i>elegans</i>	Common Tarplant or Madia	AH	Asteraceae			1			V
<i>Madia gracilis</i> (Smith) Keck	Slender Tarplant or Madia	AH	Asteraceae		1				V
<i>Madia</i> sp.1	a Tarplant	AH	Asteraceae			1	1		
<i>Madia</i> sp.2	a Tarplant	AH	Asteraceae		1				
<i>Malacothamnus orbiculatus</i> (Greene) Greene	Orb-leaf Bushmallow	S	Malvaceae						V

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<i>Malacothrix californica</i> DC. var. <i>californica</i>	California Cliff-aster	PH	Asteraceae			1	1	1	V
<i>Malacothrix coulteri</i> A. Gray	Snake-head	AH	Asteraceae		1	1	1		V
<i>Malacothrix glabrata</i> A. Gray	Desert Dandelion	AH	Asteraceae					1	
<i>Malacothrix</i> sp.			Asteraceae			1			
<i>Malva parviflora</i> L. *	Cheeseweed	AH	Malvaceae	1	1				
<i>Malvella leprosa</i> (Ortega) Krapov.	Alkali Mallow	PH	Malvaceae				1		
<i>Marah fabaceus</i> var. <i>agrestis</i> (Greene) Stocking	California Man-root	PV	Cucurbitaceae				1	1	
<i>Marah horridus</i> (Congdon) Dunn	Man-root	PV	Cucurbitaceae	1	1	1	1		
<i>Marah</i> sp.		PV	Cucurbitaceae				1		
<i>Marrubium vulgare</i> L. *	White Horehound	PH	Lamiaceae	1	1	1	1	1	
<i>Medicago lupulina</i> L. *	Black Medick	AH	Fabaceae				1		
<i>Medicago polymorpha</i> L. *	Common Burclover	AH	Fabaceae	1	1	1	1		V
<i>Medicago sativa</i> L. *	Alfalfa	PH	Fabaceae		1				
<i>Medicago</i> sp. *		AH	Fabaceae				1		
<i>Melica imperfecta</i> Trin.	Coast Melic Grass	PG	Poaceae	1	1	1	1	1	
<i>Melilotus alba</i> Medikus *	White Sweetclover	AH	Fabaceae				1		
<i>Melilotus indica</i> (L.) All. *	Yellow Sweetclover	AH	Fabaceae	1	1		1		
<i>Mentha x piperita</i> L.	Peppermint	PH	Lamiaceae		1				
<i>Mentzelia affinis</i> Greene	Orange-spotted Stickleaf	AH	Loasaceae				1		V
<i>Mentzelia</i> sp.1	a Stickleaf	AH	Loasaceae			1	1		
<i>Mentzelia</i> sp.2	a Stickleaf	AH	Loasaceae			1	1	1	
<i>Mentzelia veatchiana</i> Kellogg	Veatch's Stickleaf	AH	Loasaceae			1	1	1	
<i>Micropus californicus</i> Fischer & C. Meyer	Cotton Top	AH	Asteraceae				1		
<i>Microseris douglasii</i> (DC.) Schultz-Bip. ssp. <i>douglasii</i>	Douglas Microseris	AH	Asteraceae	1	1				V
<i>Microseris</i> sp.	a Microseris	AH	Asteraceae			1		1	
<b><i>Microseris sylvatica</i> (Benth.) Schultz-Bip.</b>	<b>Sylvan Scorzonella</b>	AH	Asteraceae	1			1		
<i>Mimulus constrictus</i> (A.L. Grant) Pennell	Narrow-throated Monkeyflower	AH	Phrymaceae			1			V
<b><i>Mimulus dudleyi</i> A.L. Grant [<i>Mimulus floribundus</i> in part]</b>	<b>Dudley Monkeyflower</b>	AH	Phrymaceae	1	1				

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<i>Mimulus fremontii</i> (Benth.) A. Gray ?	Fremont's Monkeyflower	AH	Phrymaceae				1		
<i>Mimulus guttatus</i> DC.	Common Stream Monkeyflower	PH	Phrymaceae	1	1	1	1	1	
<b><i>Mimulus pictus</i> (Greene) A. Gray</b>	<b>Calico Monkeyflower</b>	AH	Phrymaceae		1				V
<i>Minuartia douglasii</i> (Torrey & A. Gray) Mattf.	Douglas' Sandwort	AH	Caryophyllaceae				1		
<i>Mirabilis laevis</i> var. <i>crassifolia</i> (Choisy) Spellenb.	California Four O'clock	PH	Nyctaginaceae	1	1		1	1	
<i>Mirabilis laevis</i> var. <i>retrosa</i> (A. Heller) Jeps.	Wishbone Bush	PH	Nyctaginaceae					1	
<i>Mirabilis multiflora</i> var. <i>pubescens</i> S. Watson	Giant Four O'clock	PH	Nyctaginaceae	1	1		1	1	
<i>Mirabilis</i> sp.1	a Four O'clock	PH	Nyctaginaceae		1			1	
<i>Monolopia lanceolata</i> Nuttall	Lanceleaf Hilltop Daisy	AH	Asteraceae		1		1		V
<i>Monolopia major</i> DC.	Hillside Daisy	AH	Asteraceae		1				V
<i>Monolopia</i> sp.	Hillside Daisy	AH	Asteraceae			1			
<i>Monolopia stricta</i> Crum	Hilltop Daisy	AH	Asteraceae			1		1	
<i>Muhlenbergia asperifolia</i> (Nees & Meyen ex Trin.) Parodi	Scratchgrass	PG	Poaceae	1					
<i>Muhlenbergia rigens</i> (Benth.) A. Hitchc.	Deer Grass	PG	Poaceae		1	1	1		
<i>Muilla maritima</i> (Torrey) S. Watson	Common Muilla	PG	Alliaceae			1	1	1	
<i>Nassella cernua</i> (Stebb. & Love) Barkworth	Foothill Needlegrass	PG	Poaceae				1		
<i>Nassella pulchra</i> (A. Hitchc.) Barkworth	Purple Needlegrass	PG	Poaceae	1	1	1	1	1	
<i>Nassella</i> sp.	a Needlegrass	PG	Poaceae	1	1		1	1	
<i>Nasturtium officinale</i> W.T. Aiton [ <i>Rorippa nasturtium-aquaticum</i> ]	Water-cress	PH	Brassicaceae	1	1	1	1		
<i>Navarretia pubescens</i> [ <i>N. mitracarpa</i> ]	Downy Navarretia	AH	Polemoniaceae						V
<b><i>Navarretia setiloba</i> Cov.</b>	<b>Paiute Mtn. Pincushion Plant</b>	AH	Polemoniaceae		1				V
<i>Nemophila heterophylla</i> Fischer & C. Meyer	Canyon Nemophila	AH	Boraginaceae		1	1			
<i>Nemophila menziesii</i> Hook. & Arn. var. <i>menziesii</i>	Baby Blue-eyes	AH	Boraginaceae	1	1	1	1	1	
<i>Nemophila parviflora</i> Douglas ex Bentham var. <i>parviflora</i>	Smallflower Nemophila	AH	Boraginaceae						V
<i>Nemophila pendunculata</i> Benth.	Meadow Nemophila	AH	Boraginaceae		1				V
<i>Nemophila pulchella</i> var. <i>fremontii</i> (Elmer) Constance	Fremont Baby Blue-eyes	AH	Boraginaceae		1	1	1		
<i>Nemophila</i> sp.		AH	Boraginaceae				1	1	
<i>Nicotiana attenuata</i> Torrey	Coyote Tobacco	AH	Solanaceae	1				1	



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<i>Nicotiana glauca</i> Graham *	Tree Tobacco	T	Solanaceae	1					
<i>Nicotiana quadrivalis</i> Pursh	Indian Tobacco	AH	Solanaceae		1				
<i>Oenothera californica</i> (S. Watson) S. Watson ssp. <i>californica</i>	California Evening-primrose	PH	Onagraceae				1	1	
<i>Oenothera californica</i> ssp. ? (probably <i>californica</i> )	Evening-primrose	AH	Onagraceae				1		
<i>Oenothera elata</i> ssp. <i>hookeri</i> (Torrey & A. Gray) W. Dietr. & W.L. Wagner	Hooker's Evening Primrose	PH	Onagraceae				1		
<i>Oenothera</i> sp.			Onagraceae				1	1	
<i>Opuntia basilaris</i> Engelm. & J. Bigelow var. <i>basilaris</i>	Beavertail Cactus	S	Cactaceae				1	1	
<i>Opuntia basilaris</i> var. ?	Beavertail Cactus	S	Cactaceae		1			1	
<b><i>Opuntia basilaris</i> var. <i>treleasei</i> (J. Coulter) Tourney</b>	<b>Bakerfield Cactus</b>	S	Cactaceae	1	1				
<i>Orobanche uniflora</i> L.	Naked Broomrape	PH	Orobanchaceae	1					
<i>Osmorhiza brachypoda</i> Torrey	Sweet Cicely	PH	Apiaceae	1	1	1	1	1	V
<i>Parkinsonia aculeata</i> L. *	Mexican Palo Verde	T	Fabaceae	1					
<i>Pectocarya linearis</i> (Ruiz Lopez & Pavon) DC.	Linear Pectocarya	AH	Boraginaceae			1		1	
<i>Pectocarya penicillata</i> (Hook. & Arn.) A. DC.	Winged Pectocarya	AH	Boraginaceae	1	1	1	1		V
<i>Pectocarya setosa</i> A. Gray	Moth Combseed	AH	Boraginaceae					1	
<i>Pectocarya</i> sp.	a Pectocarya	AH	Boraginaceae	1			1		
<i>Pellaea andromedifolia</i> (Haulfuss) Fee var. <i>andromedifolia</i>	Coffee Fern	PF	Pteridaceae	1	1		1		V
<i>Pellaea mucronata</i> (D. Eaton) D. Eaton	Birdsfoot Trefoil	PF	Pteridaceae	1	1		1		
<i>Penstemon centranthifolius</i> (Benth.) Benth.	Scarlet Bugler	PH	Plantaginaceae			1	1		
<i>Penstemon</i> cf. <i>laetus</i> var. ?	Mountain Blue Penstemon	PH	Plantaginaceae					1	
<i>Penstemon fruticiformis</i> Cov.	Desert Beardtongue	PH	Plantaginaceae					1	
<i>Penstemon grinnellii</i> Eastw. var. <i>grinnellii</i>	Grinnell's Beardtongue	PH	Plantaginaceae					1	
<i>Penstemon incertus</i> Brandegee	Western Desert Penstemon	S	Plantaginaceae				1	1	
<i>Penstemon</i> sp.1	a Beardtongue	PH	Plantaginaceae	1					
<i>Penstemon</i> sp.2	a Beardtongue	PH	Plantaginaceae					1	
<i>Penstemon speciosus</i>	Royal Penstemon	PH	Plantaginaceae						V
<i>Pentagramma triangularis</i> (Kaulf.) Yatsk., Windham, & Wollenw. var. <i>triangularis</i>	Goldenback Fern	PF	Pteridaceae	1	1		1		

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<i>Perideridia gairdneri</i> (Hook. & Arn.) Mathias ssp. <i>gairdneri</i>	Gairdner Yampah	PH	Apiaceae	1					
<i>Perideridia pringlei</i> (J. Coulter & Rose) Nelson & J.F. Macbr.	Adobe Yampah	PH	Apiaceae				1		
<i>Phacelia cicutaria</i> Greene var. <i>cicutaria</i>	Caterpillar Phacelia	AH	Boraginaceae	1	1	1	1		V
<i>Phacelia cicutaria</i> var. <i>hubbyi</i> (J.F. Macbr.) J. Howell	Hubby Caterpillar Phacelia	AH	Boraginaceae	1			1	1	
<i>Phacelia ciliata</i> Benth. var. cf. <i>ciliata</i>	Ciliate Phacelia	PH	Boraginaceae		1				
<i>Phacelia congdonii</i> Greene	Congdon Phacelia	AH	Boraginaceae				1		V
<i>Phacelia curvipes</i> S. Watson var. <i>curvipes</i> ?	Washoe Phacelia	AH	Boraginaceae			1	1		
<i>Phacelia davidsonii</i> A. Gray ?	Davidson's Phacelia	AH	Boraginaceae				1	1	
<i>Phacelia distans</i> Benth.	Wild Heliotrope	AH	Boraginaceae	1	1	1	1	1	V
<i>Phacelia egena</i> (Brand) J. Howell	Rock Phacelia	PH	Boraginaceae		1	1	1	1	
<i>Phacelia fremontii</i> Torrey	Fremont's Phacelia	PH	Boraginaceae				1	1	
<i>Phacelia imbricata</i> E. Greene	Rock Phacelia	PH	Boraginaceae	1		1	1	1	
<i>Phacelia ramosissima</i> var. ?	Branching Phacelia	PH	Boraginaceae	1		1	1	1	
<i>Phacelia ramosissima</i> var. <i>latifolia</i> (Torrey) Cronq.	Branching Phacelia	PH	Boraginaceae		1				
<i>Phacelia</i> sp.1	a Phacelia	PH	Boraginaceae		1				
<i>Phacelia</i> sp.2	a Phacelia	PH	Boraginaceae			1			
<i>Phacelia</i> sp.3	a Phacelia	PH	Boraginaceae					1	
<i>Phacelia tanacetifolia</i> Benth.	Tansy Phacelia	AH	Boraginaceae			1	1	1	V
<i>Phalaris</i> sp. *	Canarygrass	AG	Poaceae		1				
<i>Phlox gracilis</i> E. Greene	Slender Phlox	AH	Polemoniaceae		1	1	1		V
<i>Pholistoma auritum</i> (Lindley) Lilja var. <i>auritum</i>	Blue Fiesta Flower	AH	Boraginaceae	1	1	1			V
<i>Pholistoma membranaceum</i> (Benth.) Constance	White Fiesta Flower	AH	Boraginaceae	1	1	1			V
<i>Pholistoma</i> sp.	a Fiesta Flower	AH	Boraginaceae		1		1		
<i>Phoradendron densum</i> Trel.	Dense Mistletoe	PH	Viscaceae				1	1	
<i>Phoradendron macrophyllum</i> (Engelm.) Cockerell	Bigleaf Mistletoe	PH	Viscaceae		1	1	1	1	
<i>Phoradendron villosum</i> (Nutt.) Nutt.	Woolly Mistletoe	PH	Viscaceae	1	1	1	1	1	
<i>Pinus coulteri</i> D. Don	Coulter Pine	T	Pinaceae					1	
<i>Pinus monophylla</i> Torrey & Fremont	Singleleaf Pinyon Pine	T	Pinaceae				1	1	

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<i>Pinus sabiniana</i> Douglas	Foothill Pine	T	Pinaceae	1					
<i>Plagiobothrys arizonicus</i> (A. Gray) A. Gray	Arizona Popcornflower	AH	Boraginaceae	1	1	1	1	1	V
<i>Plagiobothrys canescens</i> Benth.	Valley Popcornflower	AH	Boraginaceae		1				V
<i>Plagiobothrys fulvus</i> (Hook. & Arn.) I.M. Johnston	Fulvous Popcorn Flower	AH	Boraginaceae		1				
<i>Plagiobothrys nothofulvus</i> (A. Gray) A. Gray	Rusty Popcornflower	AH	Boraginaceae	1	1	1	1	1	V
<i>Plagiobothrys</i> sp.1	a Popcornflower	AH	Boraginaceae	1	1	1		1	
<i>Plagiobothrys</i> sp.2	a Popcornflower	AH	Boraginaceae	1					
<i>Plagiobothrys</i> sp.3	a Popcornflower	AH	Boraginaceae		1				
<i>Plagiobothrys</i> sp.4	a Popcornflower	AH	Boraginaceae				1		
<i>Plagiobothrys</i> sp.5	a Popcornflower	AH	Boraginaceae					1	
<i>Plagiobothrys tenellus</i> (Nutt.) A. Gray	Slender Popcorn Flower	AH	Boraginaceae	1	1	1	1		
<i>Plantago erecta</i> E. Morris	California Plantain	AH	Plantaginaceae	1	1				V
<i>Plantago major</i> L *	Common Plantain	PH	Plantaginaceae				1		
<i>Platanus racemosa</i> Nuttall var. <i>racemosa</i>	California Sycamore	T	Platanaceae	1	1	1	1		V
<i>Platystemon californicus</i> Benth. var. <i>californicus</i>	Cream Cups	AH	Papaveraceae	1		1	1	1	V
<i>Plectritis ciliosa</i> ssp. <i>insignis</i> (Suksd.) D. Morey	Petite Long-spurred Plectritis	AH	Valerianaceae			1	1		
<i>Plectritis macrocera</i> Torrey & A. Gray cf	White Plectritis	AH	Valerianaceae	1	1	1			
<i>Plectritis</i> sp.	a Plectritis	AH	Valerianaceae	1	1	1	1		
<i>Pluchea sericea</i> (Nutt.) Coville	Arrow Weed	S	Asteraceae		1				
<i>Poa annua</i> L.	Annual Bluegrass	AG	Poaceae	1	1				
<i>Poa bulbosa</i> L. *	Bulbose Bluegrass	PG	Poaceae			1	1		
<i>Poa secunda</i> J.S. Presl ssp. <i>secunda</i>	One-sided Bluegrass	PG	Poaceae	1	1	1	1	1	
<i>Polygonum aviculare</i> ssp. <i>depressum</i> Meisner in A.P. DC & A. L.P.P. DC *	Common Knotweed	AH	Polygonaceae	1	1		1		
<i>Polygonum punctatum</i> Elliot	Dotted Smartweed	PH	Polygonaceae	1					
<i>Polygonum</i> sp.1	a knotweed or smartweed		Polygonaceae		1				
<i>Polygonum</i> sp.2	a knotweed or smartweed		Polygonaceae				1	1	
<i>Polypogon monspeliensis</i> L. *	Rabbitsfoot Grass	AG	Poaceae	1	1	1	1		
<i>Populus fremontii</i> S. Watson ssp. <i>fremontii</i>	Fremont Cottonwood	T	Salicaceae		1	1	1		

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<i>Potamogeton foliosus</i> Raf. var. ?	Leafy Pondweed	PH	Potamogetonaceae	1	1				
<i>Potentilla glandulosa</i> Lindley ssp. ?	a Cinquifol	PH	Rosaceae	1			1		
<i>Potentilla</i> sp.1	a Cinquifol	PH	Rosaceae				1		
<i>Prunus cf. emarginata</i> (Hook.) Walp.	Bitter Cherry	T / S	Rosaceae				1		
<i>Prunus fasciculata</i> (Torrey) A. Gray var. <i>fasciculata</i>	Desert Almond	S	Rosaceae			1	1	1	
<i>Prunus ilicifolia</i> (Nutt.) Walp.	Hollyleaf Cherry	S	Rosaceae				1		
<i>Prunus virginiana</i> L.	Chokecherry	T / S	Rosaceae				1		
<i>Pseudognaphalium californicum</i> (DC.) Anderberg	Green Everlasting	A/BH	Asteraceae		1		1		
<i>Pseudognaphalium luteoalbum</i> (L.) Hilliard & B.L. Burt *	Cudweed-everlasting	PH	Asteraceae	1	1	1	1		
<i>Pseudognaphalium stramineum</i> (Kunth) Andersberg	Small Flowered Cudweed	A/BH	Asteraceae				1		
<i>Psilocarphus brevissimus</i> Nutt. var. <i>brevissimus</i>	Woolly Marbles	AH	Asteraceae	1	1				
<i>Pterostegia drymarioides</i> Fischer & C. Meyer	Fairy Mist	AH	Polygonaceae	1	1				
<i>Quercus berberidifolia</i> Leibm.	California Scrub Oak	S	Fagaceae				1		V
<i>Quercus chrysolepis</i> Liebm.	Canyon Live or Goldencup Oak	T	Fagaceae	1	1	1	1		V
<i>Quercus douglasii</i>	Blue Oak	T	Fagaceae	1	1	1	1		
<i>Quercus garryana</i> var. <i>breweri</i> ? (Engelm.) Jepson	Brewer Oak	T	Fagaceae			1			
<i>Quercus garryanna</i>	Garry Oak	T	Fagaceae			1		1	
<i>Quercus</i> hybrid	Hybrid Oak	S	Fagaceae				1		
<i>Quercus</i> hybrid (?) <i>berberidifolia</i>	Hybrid Oak	S	Fagaceae				1		
<i>Quercus</i> hybrid (white oak?)	White Oak	T	Fagaceae			1			
<i>Quercus john-tuckeri</i> K. Nixon & C.H. Muller	John Tucker Oak	S	Fagaceae			1	1	1	
<i>Quercus kelloggii</i> Newberry	Black Oak	T	Fagaceae	1					
<i>Quercus lobata</i> Nee	Valley Oak	T	Fagaceae	1	1	1	1	1	V
<i>Quercus</i> sp.1	Hybrid Oak	S	Fagaceae	1					
<i>Quercus</i> sp.2	Hybrid Oak	S	Fagaceae			1			
<i>Quercus wislizenii</i> A. de Candolle ssp. <i>wislizenii</i>	Interior Live Oak	T	Fagaceae	1	1	1	1	1	V
<i>Quercus wislizenii</i> ssp. <i>frutescens</i> (Engelm.) E. Murray	Shrubby Interior Live Oak	S	Fagaceae	1	1	1	1		
<i>Rafinesquia californica</i> Nutt.	California Chicory	PH	Asteraceae			1	1		

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<i>Ranunculus californicus</i> Benth. var. <i>californicus</i>	California Buttercup	PH	Ranunculaceae				1		
<i>Ranunculus canus</i> var. <i>ludovicianus</i> (E. Greene) L.D. Benson	Sacramento Valley buttercup	PH	Ranunculaceae		1				V
<i>Ranunculus cymbalaria</i> var. <i>saximontanus</i> Fern.	Mountain Desert Buttercup	PH	Ranunculaceae		1				V
<i>Ranunculus hebecarpus</i> Hooker & Arnott	Hebe-fruited Buttercup	AH	Ranunculaceae		1				V
<i>Ranunculus</i> sp.1	a Buttercup	PH	Ranunculaceae				1		
<i>Ranunculus</i> sp.2	a Buttercup	PH	Ranunculaceae				1		
<i>Raphanus sativus</i> L. *	Wild Raddish	AH	Brassicaceae	1					
<i>Rhamnus californica</i> Eschsch.	California Coffeeberry	S	Rhamnaceae			1	1		
<i>Rhamnus ilicifolia</i> Kellogg	Hollyleaf Redberry	S	Rhamnaceae	1	1	1	1	1	V
<i>Rhamnus tomentella</i> Benth. ssp. ?	Hoary Coffeeberry	S	Rhamnaceae	1		1	1		
<i>Rhamnus tomentella</i> Benth. ssp. <i>cuspidata</i> (E. Greene) J.O. Sawyer	Hoary Coffeeberry	S	Rhamnaceae			1	1		
<i>Rhamnus tomentella</i> Benth. ssp. <i>tomentella</i>	Hoary Coffeeberry	S	Rhamnaceae			1	1	1	
<i>Ribes quercetorum</i> E. Greene	Oak Gooseberry	S	Grossulariaceae	1	1	1	1	1	
<i>Ribes roezlii</i> Regel var. <i>roezlii</i>	Sierra Gooseberry	S	Grossulariaceae	1	1	1	1	1	V
<i>Ribes</i> sp.	Gooseberry	S	Grossulariaceae	1	1	1	1	1	
<i>Rigiopappus leptocladus</i> Gray	Rigiopappus	AH	Asteraceae				1		V
<i>Rosa californica</i> Cham. & Schldl.	California Wild Rose	S	Rosaceae				1		
<i>Rostraria cristata</i> (L.) Tzvelev *	Mediterranean Hairgrass	AH	Poaceae	1					
<i>Rubus ursinus</i> Cham. & Schldl.	Pacific Blackberry	PV	Rosaceae		1				
<i>Rumex conglomeratus</i> Murray	Clustered Dock	PH	Polygonaceae		1		1		
<i>Rumex crispus</i> L. *	Curly Dock	PH	Polygonaceae		1		1		
<i>Rumex salicifolius</i> J.A. Weinm. var. <i>salicifolius</i>	Willow Dock	PH	Polygonaceae	1	1		1	1	
<i>Rumex salicifolius</i> var. <i>transitorius</i> (Rech.f.) J. Hickman	Willow Dock	PH	Polygonaceae		1				
<i>Rumex</i> sp.1	a Dock	PH	Polygonaceae		1				
<i>Rumex</i> sp.2	a Dock	PH	Polygonaceae			1			
<i>Rumex</i> sp.3	a Dock	PH	Polygonaceae				1		
<i>Salix gooddingii</i> C. Ball	Black Willow	T	Salicaceae		1	1	1	1	
<i>Salix laevigata</i> Bebb.	Red Willow	T	Salicaceae		1	1	1		V

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<i>Salix lasiolepis</i> Benth. var. <i>lasiolepis</i>	Arroyo Willow	S	Salicaceae		1	1	1		
<i>Salix lucida</i> Muhlenb. ssp. <i>lasiandra</i> (Benth.) E. Murray	Shining [Yellow] Willow	T	Salicaceae	1	1		1		
<i>Salix</i> sp.	a Willow	T	Salicaceae			1	1		
<i>Salsola tragus</i> L. *	Russian Thistle	AH	Chenopodiaceae	1	1		1		
<i>Salvia carduacea</i> Benth.	Thistle Sage	PH	Lamiaceae	1		1	1	1	V
<i>Salvia columbariae</i> Benth.	Chia	AH	Lamiaceae	1	1	1	1	1	
<i>Sambucus mexicana</i> C. Prsel	Blue Elderberry	S	Caprifoliaceae	1	1	1	1		
<i>Sanicula bipinnata</i> Hook. & Arn.	Poison Sanicle	PH	Apiaceae	1	1				
<i>Sanicula bipinnatifida</i> Hook.	Purple Sanicle	PH	Apiaceae	1	1				
<i>Sanicula crassicaulis</i> Poepp. ex DC. var. <i>crassicaulis</i>	Pacific Sanicle	PH	Apiaceae	1	1				
<i>Sanicula graveolens</i> Peopp. ex DC.	Sanicle	PH	Apiaceae	1					V
<i>Sanicula</i> sp.1	Sanicle	PH	Apiaceae	1					
<i>Sanicula</i> sp.2	Sanicle	PH	Apiaceae		1				
<i>Saxifraga californica</i> E. Greene	California Saxifrage	PH	Saxifragaceae	1					
<i>Schismus arabicus</i> Nees *	Arabian Grass	AG	Poaceae					1	
<i>Schismus barbatus</i> (L.) Thell *	Abu Mashi	AG	Poaceae	1	1		1	1	
<i>Schismus</i> sp. *	Arabian Grass	AG	Poaceae		1	1	1	1	
<i>Schoenoplectus acutus</i> var. <i>occidentalis</i> (S. Watson) S.G. Sm.	Tule	PG	Cyperaceae				1		
<i>Scirpus pungens</i> Vahl	Common Threesquare	PG	Cyperaceae		1				
<i>Scirpus</i> sp.1	Rush	PG	Cyperaceae		1				
<i>Scirpus</i> sp.2	Rush	PG	Cyperaceae				1		
<i>Scirpus</i> sp.3	Rush	PG	Cyperaceae					1	
<i>Scrophularia californica</i> Cham. & Schldl. ssp. <i>californica</i>	California Figwort	PH	Scrophulariaceae	1	1	1	1		
<i>Scrophularia californica</i> ssp. <i>floribunda</i> (E. Greene) Shaw	California Figwort	PH	Scrophulariaceae	1	1	1			
<i>Scutellaria siphocampyloides</i> Vatke	Skullcap	PH	Lamiaceae				1		V
<i>Secale cereale</i> L. *	Cereal Rye	PH	Poaceae				1		
<i>Selaginella bigelovii</i> L. Underw.	Bigelow Spike-moss	PF	Selaginellaceae	1	1		1		
<i>Senecio breweri</i> Burttt Davy	Brewer's Ragwort	PH	Asteraceae				1		

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<i>Senecio flaccidus</i> var. <i>douglasii</i> (DC.) B. Turner & T. Barkley	Douglas' Groundsel	S	Asteraceae			1	1		
<i>Senecio flaccidus</i> Less. var. ?	Shrubby Ragwort	S	Asteraceae			1	1	1	
<i>Senecio</i> sp.	Groundsel, Ragwort		Asteraceae				1	1	
<i>Senecio vulgaris</i> L. *	Common Groundsel	AH	Asteraceae	1	1				
<i>Sidaleca malvaeflora</i> (DC.) Benth ssp. <i>malviflora</i>	Checker Mallow	S	Malvaceae				1		V
<i>Silene californica</i> Durand	California Indian Pink	PH	Caryophyllaceae	1			1		V
<i>Silene dichotoma</i> Ehrh.	Forked Catchfly	AH	Caryophyllaceae		1				
<i>Silene gallica</i> L. *	Windmill Pink	AH	Caryophyllaceae	1	1				
<i>Silene</i> sp.	an Indian Pink	AH	Caryophyllaceae		1				
<i>Silybum marianum</i> (L.) Gaertner *	Milk Thistle	AH	Asteraceae		1				
<i>Sisymbrium altissimum</i> L. *	Tumbling Mustard	AH	Brassicaceae	1	1	1	1		
<i>Sisymbrium irio</i> L. *	London Rocket	AH	Brassicaceae		1				
<i>Sisymbrium officinale</i> L. *	Hedge Mustard	AH	Brassicaceae		1	1	1		V
<i>Sisymbrium orientale</i> L. *	Eastern Mustard	AH	Brassicaceae	1	1	1	1		
<i>Sisymbrium</i> sp. *	a Mustard	AH	Brassicaceae			1	1		
<i>Sisyrinchium bellum</i> S. Watson	Blue-eyed Grass	PG	Iridaceae			1	1		
<i>Solanum douglasii</i> Dunal	Douglas Nightshade	PH	Solanaceae		1				V
<i>Solanum</i> sp.	a Nightshade	PH	Solanaceae			1			
<i>Solanum xanti</i> A. Gray var. <i>xanti</i>	Chaparral Nightshade	S	Solanaceae	1		1	1		V
<i>Solidago/Euthamia</i> (?)	Western Goldenrod	PH	Asteraceae				1		
<i>Sonchus asper</i> (L.) Hill ssp. <i>asper</i> *	Prickly Sow-thistle	AH	Asteraceae	1	1	1	1		
<i>Sonchus oleraceus</i> L. *	Common Sow-thistle	AH	Asteraceae	1	1		1		
<i>Spergularia cf. bocconii</i> (Scheele) Merino *	Boccone's Sand Spurry	AH	Caryophyllaceae	1					
<i>Spergularia salina</i> J. Presl & C. Presl	Saltmarsh Sandspurrey	AH	Caryophyllaceae						V
<i>Stachys ajugoides</i> var. <i>rigida</i> Jeps. & Hoover	Rigid Hedge Nettle	PH	Lamiaceae		1		1	1	
<i>Stachys albens</i> A. Gray	Woolly Hedge Nettle	PH	Lamiaceae	1	1	1	1	1	
<i>Stachys</i> sp.	a Hedge Nettle	PH	Lamiaceae		1	1	1		
<i>Stebbinsoseris heterocarpa</i> (Nutt.) Chambers	Grassland Stebbinsoseris	AH	Asteraceae			1			

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Scientific Name	Common Name	Habit	Family	TEJON NORTH		TEJON SOUTH			Tejon Ranch
				White Wolf	Old HQ	Michener Ranch	Bi-Centennial	Tri-Centennial	
<i>Stellaria media</i> (L.) Vill. *	Common Chickweed	AH	Caryophyllaceae	1	1		1		
<i>Stephanomeria exigua</i> ssp. <i>coronaria</i> (E. Greene) Gottlieb	White Plume Wirelettuce	AH	Asteraceae		1		1		
<i>Stephanomeria exigua</i> Nutt. ssp. <i>exigua</i>	Mitra	AH	Asteraceae		1	1		1	
<i>Stephanomeria exigua</i> Nutt. ssp. ?	Small Wirelettuce	AH	Asteraceae		1			1	
<i>Stephanomeria pauciflora</i> (Nutt.) Nelson var. <i>pauciflora</i>	Wire Lettuce	PH	Asteraceae	1			1	1	
<i>Stephanomeria</i> sp.1			Asteraceae	1	1				
<i>Stephanomeria</i> sp.2			Asteraceae			1			
<i>Stephanomeria</i> sp.3			Asteraceae				1	1	
<i>Stephanomeria tenuifolia</i>	Wire Lettuce	AH	Asteraceae						V
<i>Stephanomeria virgata</i> ssp. <i>pleurocarpa</i> (E. Greene) Gottlieb	Tall Stephanomeria	AH	Asteraceae					1	
<i>Stephanomeria virgata</i> Benth. ssp. <i>virgata</i>	Twiggy Wreath Plant	AH	Asteraceae	1	1	1	1	1	
<i>Stylomecon heterophylla</i> (Benth.) G.C. Taylor	Wind Poppy	AH	Papaveraceae				1		
<i>Symphoricarpos mollis</i> Nutt.	Snowberry	PV	Caprifoliaceae				1		
<i>Syntrichopappus fremontii</i> A. Gray	Fremont's Syntrichopappus	AH	Asteraceae					1	
<b><i>Syntrichopappus lemmonii</i> (A.Gray) A. Gray</b>	<b>Lemmon's Syntrichopappus</b>	AH	Asteraceae				1		
<i>Tamarix ramosissima</i> Ledeb. *	Tamarisk	T/ S	Tamaricaceae		1				
<i>Tauschia hartwegii</i> (A. Gray) J.F. Macbr.	Hartweg's Tauschia	PH	Apiaceae			1	1		
<i>Tauschia</i> sp.	a Tauschia	PH	Apiaceae				1		
<i>Tetradymia stenolepis</i> E. Greene	Cottonthorn	S	Asteraceae				1	1	
<b><i>Thermopsis californica</i> var. <i>argentata</i> (E. Greene) Jepson</b>	<b>Silvery False Lupine</b>	PH	Fabaceae				1		
<i>Thysanocarpus curvipes</i> Hook.	Common Fringe Pod	AH	Brassicaceae	1	1	1	1	1	
<i>Thysanocarpus laciniatus</i> Torrey & A. Gray	Narrow Leaved Lacepod	AH	Brassicaceae	1	1	1			
<i>Thysanocarpus</i> sp.	Lacepod	AH	Brassicaceae	1		1			
<i>Toxicodendron diversilobum</i> (Torrey & A. Gray)	Western Poison Oak	PV	Anacardiaceae	1	1				
<i>Tragopogon dubius</i> Scop. *	Goat's Beard	A/BH	Asteraceae	1					
<i>Tribulus terrestris</i> L. *	Puncture Vine, Caltrop	AH	Zygophyllaceae	1	1				
<i>Trichostema lanceolatum</i> Benth.	Vinegar Weed	AH	Lamiaceae	1	1				
<b><i>Trichostema ovatum</i></b>		AH	Lamiaceae	1					



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Scientific Name	Common Name	Habit	Family	TEJON NORTH		TEJON SOUTH			Tejon Ranch
				White Wolf	Old HQ	Michener Ranch	Bi-Centennial	Tri-Centennial	
<i>Trifolium albopurpureum</i> Torr. & Gray var. ?	Rancheria Clover	AH	Fabaceae	1	1				
<i>Trifolium albopurpureum</i> Torr. & Gray var. <i>albopurpureum</i>	Indian Clover	AH	Fabaceae	1	1		1		
<i>Trifolium ciliolatum</i> Benth.	Tree Clover	AH	Fabaceae	1					
<i>Trifolium depauperatum</i> var. <i>amplectens</i> (Torr. & Gray) L.F. McDermott	Dwarf Sack Clover	AH	Fabaceae		1				
<i>Trifolium gracilentum</i> T. & G. var. <i>gracilentum</i>	Pin-point Clover	AH	Fabaceae	1		1		1	V
<i>Trifolium microcephalum</i> Pursh	Tiny-head Clover	AH	Fabaceae	1					
<i>Trifolium</i> spp.	a Clover	AH	Fabaceae	1	1	1	1	1	
<i>Trifolium wildenovii</i> Sprengel	Tomcat Clover	AH	Fabaceae	1	1	1	1	1	
<i>Triteleia ixioides</i> ssp. <i>anilina</i> (S. Watson) E. Greene	Mountain Pretty Face	PG	Themidaceae	1	1				
<i>Triteleia laxa</i> Benth.	Ithurial Spear	PG	Themidaceae	1	1				
<i>Tropidocarpum gracile</i> Hook.	Slender Tropidocarpum	AH	Brassicaceae		1	1	1	1	V
<i>Turricula parryi</i> (A. Gray) J.F. Macbr.	Poodle Dog Bush	PH	Boraginaceae				1		
<i>Typha domingensis</i>	Narrowleaf Cattail	PG	Typhaceae				1		
Unknown polemon	Polemon	AH	Polemoniaceae	1	1		1	1	
<i>Uropappus lindleyi</i> (DC.) Nutt.	Silver Puffs	AH	Asteraceae	1	1	1	1	1	
<i>Urtica dioica</i> ssp. <i>gracilis</i> (Aiton) Selander	American Stinging Nettle	PH	Urticaceae		1				
<i>Urtica dioica</i> ssp. <i>holosericea</i> (Nuttall) Thorne	Giant Creek Nettle	PH	Urticaceae	1	1	1	1	1	
<i>Urtica urens</i> L. *	Dwarf Nettle	AH	Urticaceae	1	1	1		1	V
<i>Verbena lasiostachys</i> Link var. <i>lasiostachys</i>	Western Verbena	PH	Verbenaceae				1		
<i>Verbena lasiostachys</i> var. <i>scabrida</i> Mold.	Robust Vervain	PH	Verbenaceae				1		
<i>Veronica anagallis-aquatica</i> L. *	Water or Common Speedwell	PH	Plantaginaceae	1	1	1	1	1	V
<i>Vicia americana</i> Willd. var. <i>americana</i>	American Vetch	AV	Fabaceae			1	1		
<i>Vicia</i> sp.1	a Vetch	AV	Fabaceae	1			1		
<i>Viola pedunculata</i> Torrey & A. Gray	Johnny Jump Up	PH	Violaceae				1		
<i>Viola purpurea</i> Kellogg ssp. <i>purpurea</i>	Purple or Mountain Violet	PH	Violaceae	1		1	1		V
<i>Viola purpurea</i> ssp. <i>querretorum</i> (M. Baker & J. Clausen) R.J. Little	Goosefoot Yellow Violet	PH	Violaceae			1			
<i>Viola purpurea</i> ssp. <i>venosa</i> (S. Watson) M. Baker & J. Clausen	Desert Violet	PH	Violaceae				1		
<i>Viola purpurea</i> ssp. ?	Mountain Violet	PH	Violaceae			1	1		

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				White Wolf	Old HQ	Michener Ranch	Bi-Centennial	Tri-Centennial	
<i>Viola</i> sp.	a Violet	PH	Violaceae	1			1		
<i>Vitis californica</i> Benth.	California Wild Grape	PV	Vitaceae	1	1				
<i>Vulpia bromoides</i> (L.) S.F. Gray *	Slender Fescue	AG	Poaceae		1				
<i>Vulpia microstachys</i> (Nutt.) Benth. var. ?	Six Weeks Fescue	AG	Poaceae	1	1	1	1	1	
<i>Vulpia microstachys</i> var. <i>ciliata</i> (Beal) Lonard & Gould	Hairy Six Weeks Fescue	AG	Poaceae	1			1		
<i>Vulpia microstachys</i> var. <i>confusa</i> (Piper) Lonard & Gould	Confusing Six Weeks Fescue	AG	Poaceae	1					
<i>Vulpia microstachys</i> var. <i>pauciflora</i> (Beal) Lonard & Gould	Naked Six Weeks Fescue	AG	Poaceae	1		1			
<i>Vulpia myuros</i> (L.) C.C. Gmelin forma <i>myuros</i> *	Rattail Fescue	AG	Poaceae	1	1	1	1	1	
<i>Vulpia myuros</i> var. <i>hirsuta</i> (Hackel) Asch. & Graebner *	Rattail Fescue	AG	Poaceae	1					
<i>Vulpia octoflora</i> (Walter) Rydb. var. ?	Slender Fescue	AG	Poaceae	1				1	
<i>Washingtonia filifera</i> (L. Linden) H.A. Wendl. *	California Fan Palm	T	Arecaceae		1				
<i>Xanthium spinosum</i> L. *	Spiny or Spring Clotbur	AH	Asteraceae			1			V
<i>Xanthium strumarium</i> L.	Cocklebur	AH	Asteraceae		1	1	1	1	
<i>Yucca brevifolia</i> var. <i>herbertii</i> (J.M. Webber) Munz	Joshua Tree	T	Agavaceae			1	1	1	V
<i>Zannichellia palustris</i> L.	Horned Pondweed	PH	Zannichelliaceae		1				
<i>Zauschneria californica</i> (E. Greene) Raven ( <i>Epilobium canum</i> )	California Fuchsia	PH	Onagraceae	1	1	1	1		
<i>Zigadenus</i> sp.1	Death Camas	PG	Menianthaceae			1			
<i>Zigadenus venenosus</i> S. Watson var. <i>venenosus</i>	Death Camas	PG	Menianthaceae			1	1		

Maximum Observed	<b>332</b>	<b>367</b>	<b>300</b>	<b>479</b>	<b>310</b>
Unidentified	46	54	72	103	67
Nonnative	58	68	26	47	19
Native	228	245	202	331	224
Total Identified	286	313	228	378	243

Notes: Scientific nomenclature follows Flora of North America Committee (1993-2009 - *Flora of North America*) or Hickman (1993 - *The Jepson Manual: Higher Plants of California*).

Common names follow Abrams and Ferris (1960), Neihaus and Ripper (1976), and DeGarmo (1980).

**Bold** typeface indicates special-status species.

An "\*" indicates non-native species that have become naturalized or persist without cultivation.

An "+" indicates non-native species that were cultivated and/or persist without active cultivation after planting.

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Scientific Name	Common Name	Habit	Family	TEJON NORTH		TEJON SOUTH			Tejon Ranch
				White Wolf	Old HQ	Michener Ranch	Bi-Centennial	Tri-Centennial	
Habit definitions:									
AF = annual fern or fern ally.		PG = perennial grass or graminoid.							
AG = annual grass or graminoid.		PH = perennial herb.							
AH = annual herb.		PV = perennial vine.							
BH = biennial herb.		S = shrub.							
PF = perennial fern or fern ally.		T = tree.							

## SPECIAL-STATUS PLANT SPECIES

Special-status plant species are plants that are listed by the U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Game (CDFG), and/or the California Native Plant Society (CNPS). CNPS has developed lists of rare plants native to California that are rare statewide and included in its *Inventory of Rare and Endangered Plants of California* (CNPS 2001) and the electronic (online) version (CNPS 2010), and locally rare plants for selected areas of the state (Lake 2004, Magney 2009, Wilken 2007). To date, CNPS has not developed a list of locally rare plants for any part of Kern or Los Angeles Counties except for a preliminary list for the Liebre Mountains of northwestern Los Angeles County (Magney 2005). CNPS has five statewide rare plant lists: 1A, 1B, 2, 3, and 4.

As indicated in the above subsections and Table 2, sixteen (16) special-status plant species were directly observed (or reported) within the acquisition areas. Table 3, Special-status Plant Species in the Tejon Ranch Acquisition Areas, provides a complete list of the special-status plant species observed by DMEC during the spring and summer survey of the Tejon Ranch acquisition areas, or previously collected by others. Special-status plant species observed onsite are mapped for each of the five acquisition areas in the following Summary of Acquisition Areas section.

**Table 3. Special-status Plant Species Observed on Tejon Ranch Acquisition Areas**

Status: Federal/State/CNPS List	Scientific Name	Common Name
None/None/CNPS 4	<i>Convolvulus simulans</i>	Small Flowered Morning Glory
None/Rare/CNPS 1B	<i>Deinandra arida</i>	Red Rock Tarplant
None/None/CNPS 4	<i>Delphinium parryi</i> ssp. <i>purpureum</i>	Mount Piños Larkspur
Delisted/None/CNPS 4	<i>Eriastrum hooveri</i>	Hoover Woolly Star
None/None/CNPS 1B	<i>Eschscholzia lemmonii</i> ssp. <i>kernensis</i>	Tejon Poppy
None/Threatened/CNPS 1B	<i>Fritillaria striata</i>	Striped Adobe Lily
None/None/CNPS 1B	<i>Layia leucopappa</i>	Comanche Point Tidy Tips
None/None/CNPS 4	<i>Microseris sylvatica</i>	Sylvan Scorzonella
None/None/CNPS 1B	<i>Mimulus pictus</i>	Calico Monkeyflower
None/None/CNPS 1B	<i>Navarretia setiloba</i>	Paiute Mountain Pincushion Plant
Endangered/Endangered/CNPS 1B	<i>Opuntia basilaris</i> var. <i>treleasii</i>	Bakersfield Cactus
None/None/CNPS 4	<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Gairdner Yampah
None/None/CNPS 4	<i>Perideridia pringlei</i>	Adobe Yampah
None/None/CNPS 4	<i>Syntrichopappus lemmonii</i>	Lemmon's Syntrichopappus
None/None/CNPS 4	<i>Thermopsis californica</i> var. <i>argentata</i>	Silvery False Lupine
None/None/CNPS 4	<i>Trichostema ovatum</i>	San Joaquin Bluecurls

In addition, two species was found that is on the CNPS List of Postponed Taxa (PT), which are taxa that will be considered for inclusion onto one of the CNPS lists when staff time and information becomes available (CNPS 2008), and six taxa were found at one or more the Tejon Ranch acquisition areas are considered by DMEC to be eligible for CNPS listing based on their rarity statewide and meeting CNPS listing criteria. All are California endemic species. These taxa are referred to as rare plant species in this report and are are listed in Table 4.

**Table 4. Other Rare Plant Species Observed on Tejon Ranch Acquisition Areas**

Status: Federal/State/CNPS List	Scientific Name	Common Name
None/None/None	<i>Allium howellii</i> var. <i>howellii</i>	Howell's Onion
None/None/None	<i>Clarkia speciosa</i> var. <i>nitens</i>	Red Spot Clarkia
None/None/CNPS PT	<i>Clarkia speciosa</i> ssp. <i>polyantha</i>	Red Spot Clarkia
None/None/Considered but rejected	<i>Deinandra pallida</i>	Kern Tarplant
None/None/CNPS PT	<i>Delphinium hansenii</i> ssp. <i>kernense</i>	Kern Larkspur
None/None/None	<i>Lupinus benthamii</i> var. <i>opinus</i>	Large Spider Lupine
None/None/None	<i>Lupinus excubitus</i> var. <i>austromontanus</i>	Southern Mountain Bush Lupine
None/None/Considered but rejected	<i>Mimulus dudleyi</i>	Dudley Monkeyflower

## PLANT COMMUNITIES/VEGETATION TYPES

The vegetation of the Tejon Ranch acquisition areas is comprised of three predominant habitat types, including: woodlands/forests, scrublands, and herblands. Specifically the Tejon Ranch acquisition areas contain the following alliances (plant communities). Thirty-seven (37) specific vegetation alliances recognized in the List of California Vegetation Alliances (Sawyer et al. 2009) have been identified in the five acquisition areas during the floristic surveys. An additional thirty-nine (39) vegetation alliances were identified that occurred consistently across the acquisition areas, and are considered by DMEC to be candidates for recognition as California vegetation alliances. These are listed below according to their basic form, following the CNPS/CDFG vegetation classification system (Sawyer et al. 2009), with published alliances and newly named alliances distinguished in the list. These 73 vegetation alliances are listed in Table 5, Vegetation Alliances of the Tejon Ranch Acquisition Areas, which indicates in a matrix of the five acquisition areas observed. Each of these alliances contain (or are made up of) one or more plant associations, some of which are listed in the plant communities sections for the five acquisition areas.

### Forest and Woodland

Seventeen (17) forest and woodland vegetation alliances (communities) were observed in the acquisition areas, including:

- *Eucalyptus camaldulensis* Semi-Natural Woodland Stands
- *Fraxinus latifolia* Woodland Alliance (Riparian)
- *Juniperus californica* Woodland Alliance
- *Juniperus californica/Rhamnus tomentella* ssp. *cuspidata* Woodland Alliance (NEW)
- *Platanus racemosa* Woodland Alliance (Riparian)
- *Platanus racemosa-Quercus lobata* Woodland Alliance (NEW)
- *Populus fremontii-Salix gooddingii* Woodland Alliance (NEW)
- *Quercus* (multi species) Woodland Alliance
- *Quercus chrysolepis* Woodland Alliance

- *Quercus douglasii* Woodland Alliance
- *Quercus douglasii/Ceanothus greggii* ssp. *vestitus* Woodland Alliance (NEW)
- *Quercus lobata* Woodland Alliance
- *Quercus lobata* Woodland Alliance (Riparian)
- *Quercus wislizenii* Woodland Alliance
- *Salix lucida* ssp. *lasiandra* Woodland Alliance
- *Yucca brevifolia* Woodland Alliance
- *Yucca brevifolia-Juniperus californica* Woodland Alliance (NEW)

Oak-dominated woodland alliances are the most abundant, both floristically and spatially, in the five acquisition areas; however, the natural vegetation was not mapped as part of the floristic survey. The oak-dominated alliances give way to desert woodland alliances in the Antelope Valley portions of the Bi- and Tri-Centennial areas, dominated by *Juniperus californica* and *Yucca brevifolia*.

## Shrubland

Twenty-two (22) shrubland vegetation alliances (communities) were observed in the acquisition areas, including:

- *Adenostoma fasciculatum* Shrubland Alliance
- *Adenostoma fasciculatum-Ceanothus greggii* ssp. *vestitus* Shrubland Alliance (NEW)
- *Adenostoma fasciculatum-Quercus john-tuckeri* Shrubland Alliance (NEW)
- *Adenostoma fasciculatum-Rhamnus ilicifolia* Shrubland Alliance (NEW)
- *Artemisia tridentata* ssp. *tridentata* Shrubland Alliance
- *Encelia farinosa* Shrubland Alliance
- *Encelia farinosa/Achnatherum speciosum* Shrubland Alliance (NEW)
- *Ericameria linearifolia* Provisional Shrubland Alliance
- *Ericameria linearifolia-Eriogonum fasciculatum* Shrubland Alliance (NEW)
- *Ericameria nauseosa*<sup>13</sup> Shrubland Alliance
- *Eriogonum fasciculatum* var. *polifolium* Shrubland Alliance
- *Eriogonum heermanii* Provisional Shrubland Alliance
- *Gutierrezia californica* Provisional Shrubland Alliance
- *Gutierrezia sarothrae* Provisional Shrubland Alliance
- *Hesperoyucca whipplei* Shrubland Alliance (NEW)
- *Isomeris arborea* Shrubland Alliance (NEW)
- *Isomeris arborea-Ericameria nauseosa* Shrubland Alliance (NEW)
- *Lepidospartum squamatum* Shrubland Alliance
- *Opuntia basilaris* var. *treleasei* Shrubland Stand (NEW)
- *Prunus fasciculata* Shrubland Alliance
- *Ribes quercetorum* Provisional Shrubland Alliance
- *Rubus ursinus* Shrubland Alliance

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<sup>13</sup> *Ericameria nauseosa* is the new name for *Chrysothamnus nauseosus*.

The shrubland alliances dominated by chaparral shrubs are primarily found in the higher elevation portions of each of the acquisition areas. The shrubland alliances are most diverse in the southern acquisition areas as can be detected in Table 5.

## Grassland/Herbland

Thirty-five (35) herbland vegetation alliances (communities) were observed in the acquisition areas, including:

- *Achnatherum hymenoides* Herbaceous Alliance
- *Amsinckia eastwoodiae* Herbaceous Alliance (NEW)
- *Amsinckia intermedia*<sup>14</sup> Herbaceous Alliance (NEW)
- *Amsinckia menziesii* Herbaceous Alliance
- *Avena barbata* Semi-Natural Stands
- *Brassica* and other mustards Semi-natural Stands
- *Bromus rubens*<sup>15</sup> Semi-Natural Stands
- *Bromus* Semi-Natural Stands
- *Bromus tectorum* Semi-Natural Stands
- *Castilleja exserta* Herbaceous Alliance (NEW)
- *Centromadia pungens* Herbaceous Alliance
- *Corethrogyne filaginifolia* Herbaceous Alliance (NEW)
- *Erigeron foliosus* Herbaceous Stands (NEW)
- *Eriogonum angulosum-Bromus rubens* Herbaceous Alliance (NEW)
- *Eriogonum angulosum-Bromus rubens-Erodium cicutarium* Herbaceous Alliance (NEW)
- *Eschscholzia californica* Herbaceous Alliance
- *Heterotheca villosa* Herbaceous Alliance (NEW)
- *Holocarpha heermannii* Herbaceous Alliance (NEW)
- *Juncus arcticus-Carex* sp. Herbaceous Alliance (NEW)
- *Juncus arcticus-Grindelia* sp. Herbaceous Association (NEW)
- *Juncus arcticus-Stachys albens* Herbaceous Association (NEW)
- *Lemna miniscula* Herbaceous Aquatic Alliance (NEW)
- *Lupinus benthamii* Herbaceous Alliance (NEW)
- *Lupinus bicolor* Herbaceous Alliance (NEW)
- *Lupinus excubitus* Herbaceous Alliance (NEW)
- *Monolopia lanceolata-Lupinus formosus* Herbaceous Alliance (NEW)
- *Nassella pulchra* Herbaceous Alliance
- *Nasturtium officinale* Herbaceous Semi-Natural Stands (NEW)
- *Phacelia imbricata-Bromus diandrus* Herbaceous Alliance (NEW)
- *Plagiobothrys arizonicus* Herbaceous Alliance (NEW)
- *Plagiobothrys nothofulvus* Herbaceous Alliance
- *Poa secunda* Herbaceous Alliance
- *Salvia carduacea* Herbaceous Stand Alliance (NEW)

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<sup>14</sup> *Amsinckia intermedia* is an old name for *Amsinckia menziesii* var. *intermedia*, used here to save space.

<sup>15</sup> *Bromus madritensis* ssp. *rubens* is currently accepted name for *Bromus rubens*, but used here to save space.

- *Thermopsis californica* Herbaceous Stand Alliance (NEW)
- *Zauschneria californica-Rumex salicifolius* Herbaceous Alliance (NEW)

The herbland (grassland) vegetation alliances are the most floristically rich and varied of the three general forms (woodlands, shrublands, herblands). The alliances dominated by annual species are found most extensively in the White Wolf and Old Headquarters areas while the herbland alliances dominated by perennial grasses are mostly found in the more arid portions of the Bi- and Tri-Centennial areas.

The herbland alliances are predominantly composed of annual species, which can actually morph from one alliance to another depending on the season in which they are sampled.





Table 5. Vegetation Alliances of the Tejon Ranch Acquisition Areas

All Plant Communities <sup>16</sup>	Acquisition Area				
	White Wolf	Old HQ	Michener	Bi-Centennial	Tri-Centennial
<b>Forest and Woodland</b>					
<i>Eucalyptus camaldulensis</i> Semi-Natural Woodland Stands		X			
<i>Fraxinus latifolia</i> Woodland Alliance (Riparian)				X	
<i>Juniperus californica</i> Woodland Alliance				X	X
<i>Juniperus californica/Rhamnus tomentella</i> ssp. <i>cuspidata</i> Woodland Alliance+			X		
<i>Platanus racemosa</i> Woodland Alliance (Riparian)				X	
<i>Platanus racemosa-Quercus lobata</i> Woodland Alliance+		X			
<i>Populus fremontii-Salix gooddingii</i> Woodland Alliance+		X		X	
<i>Quercus</i> (multi species) Woodland Alliance	X		X	X	
<i>Quercus chrysolepis</i> Woodland Alliance			X		
<i>Quercus douglasii</i> Woodland Alliance	X	X	X	X	
<i>Quercus douglasii/Ceanothus greggii</i> ssp. <i>vestitus</i> Woodland Alliance+				X	
<i>Quercus lobata</i> Woodland Alliance	X	X	X	X	
<i>Quercus lobata</i> Woodland Alliance (Riparian)		X		X	
<i>Quercus wislizenii</i> Woodland Alliance	X		X		
<i>Salix lucida</i> ssp. <i>lasiandra</i> Woodland Alliance		X		X	
<i>Yucca brevifolia</i> Woodland Alliance				X	X
<i>Yucca brevifolia-Juniperus californica</i> Woodland Alliance+					X

<sup>16</sup> A plus sign “+” represents newly described (here) vegetation alliances.



All Plant Communities <sup>16</sup>	Acquisition Area				
	White Wolf	Old HQ	Michener	Bi-Centennial	Tri-Centennial
<b>Shrubland</b>					
<i>Adenostoma fasciculatum</i> Shrubland Alliance				X	
<i>Adenostoma fasciculatum-Ceanothus greggii</i> ssp. <i>vestitus</i> Shrubland Alliance+	X			X	
<i>Adenostoma fasciculatum-Quercus john-tuckeri</i> Shrubland Alliance+				X	
<i>Adenostoma fasciculatum-Rhamnus ilicifolia</i> Shrubland Alliance+	X			X	
<i>Artemisia tridentata</i> Shrubland Alliance			X		
<i>Encelia farinosa</i> Shrubland Alliance					X
<i>Encelia farinosa/Achnatherum speciosum</i> Shrubland Alliance+					X
<i>Ericameria linearifolia</i> Provisional Shrubland Alliance					X
<i>Ericameria linearifolia-Eriogonum fasciculatum</i> Shrubland Alliance+					X
<i>Ericameria nauseosa</i> Shrubland Alliance			X	X	X
<i>Eriogonum fasciculatum</i> var. <i>polifolium</i> Shrubland Alliance			X	X	X
<i>Eriogonum heermanii</i> Provisional Shrubland Alliance					X
<i>Gutierrezia californica</i> Shrubland Alliance					X
<i>Gutierrezia sarothrae</i> Provisional Shrubland Alliance				X	
<i>Hesperoyucca whipplei</i> Shrubland Alliance+			X		
<i>Isomeris arborea</i> Shrubland Alliance+	X			X	
<i>Isomeris arborea-Ericameria nauseosa</i> Shrubland Alliance+				X	
<i>Lepidospartum squamatum</i> Shrubland Alliance				X	
<i>Opuntia basilaris</i> var. <i>treleasei</i> Shrubland Stand+		X			
<i>Prunus fasciculata</i> Shrubland Alliance				X	

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All Plant Communities <sup>16</sup>	Acquisition Area				
	White Wolf	Old HQ	Michener	Bi-Centennial	Tri-Centennial
<i>Ribes quercetorum</i> Provisional Shrubland Alliance	X		X		
<i>Rubus ursinus</i> Shrubland Alliance		X			
<b>Grassland/Herbland</b>					
<i>Achnatherum hymenoides</i> Herbaceous Alliance					X
<i>Amsinckia eastwoodiae</i> Herbaceous Alliance+	X				
<i>Amsinckia intermedia</i> Herbaceous Alliance+	X	X	X		
<i>Amsinckia menziesii</i> Herbaceous Alliance	X			X	X
<i>Avena barbata</i> Semi-Natural Stands	X	X		X	
<i>Brassica</i> and other mustards Semi-Natural Stands	X			X	
<i>Bromus rubens</i> <sup>17</sup> Semi-Natural Stands	X	X		X	X
<i>Bromus</i> Semi-Natural Stands		X		X	
<i>Bromus tectorum</i> Semi-Natural Stands			X	X	
<i>Castilleja exserta</i> Herbaceous Alliance+	X	X			
<i>Centromadia pungens</i> Herbaceous Alliance	X	X			
<i>Corethrogyne filaginifolia</i> Herbaceous Alliance+			X	X	
<i>Erigeron foliosus</i> Herbaceous Alliance+			X		
<i>Eriogonum angulosum</i> - <i>Bromus rubens</i> Herbaceous Alliance+				X	
<i>Eriogonum angulosum</i> - <i>Bromus rubens</i> - <i>Erodium cicutarium</i> Herbaceous Alliance+		X			X
<i>Eschscholzia californica</i> Herbaceous Alliance	X	X	X	X	X

<sup>17</sup> *Bromus rubens* represents *Bromus madritensis* ssp. *rubens*, which is the current botanical name for this subspecies.



All Plant Communities <sup>16</sup>	Acquisition Area				
	White Wolf	Old HQ	Michener	Bi-Centennial	Tri-Centennial
<i>Heterotheca villosa</i> Herbaceous Alliance+			X		
<i>Holocarpha heermannii</i> Herbaceous Alliance+	X	X			
<i>Juncus arcticus</i> - <i>Carex</i> sp. Herbaceous Alliance+				X	X
<i>Juncus arcticus</i> - <i>Grindelia</i> sp. Herbaceous Alliance+				X	
<i>Juncus arcticus</i> - <i>Stachys albens</i> Herbaceous Alliance+				X	
<i>Lemna miniscula</i> Herbaceous Aquatic Alliance+	X	X			
<i>Lupinus benthamii</i> Herbaceous Alliance+	X	X			X
<i>Lupinus bicolor</i> Herbaceous Alliance+	X		X		
<i>Lupinus excubitus</i> Herbaceous Alliance+			X		
<i>Monolopia lanceolata</i> - <i>Lupinus formosus</i> Herbaceous Alliance+				X	
<i>Nassella pulchra</i> Herbaceous Alliance				X	
<i>Nasturtium officinale</i> Herbaceous Semi-Natural Stands+		X		X	
<i>Phacelia imbricata</i> - <i>Bromus diandrus</i> Herbaceous Alliance+				X	
<i>Plagiobothrys arizonicus</i> Herbaceous Alliance+	X				
<i>Plagiobothrys nothofulvus</i> Herbaceous Alliance		X			
<i>Poa secunda</i> Herbaceous Alliance			X		X
<i>Salvia carduacea</i> Herbaceous Stand Alliance			X		
<i>Thermopsis californica</i> Herbaceous Stand+				X	
<i>Zauschneria californica</i> - <i>Rumex salicifolius</i> Herbaceous Alliance+		X			

## SUMMARY OF ACQUISITION AREAS

A summary of the flora and plant communities of each of the five acquisition areas is provided below.

### White Wolf Acquisition Area

#### *White Wolf Location*

The White Wolf acquisition area is located in central Kern County, as can be seen in Figure 2A, Map of Floristic Survey of the White Wolf Acquisition Area. It is located approximately 10 miles east of the town of Arvin at the southeastern edge of the Tulare Basin portion of the San Joaquin Valley and on the northwest slopes of the Tehachapi Mountains. Both California State Routes 223 and 58 dissect the acquisition area. The southernmost portion of the White Wolf acquisition area is located along the northern El Tejon Mountains, and west of Bear Mountain. This acquisition area is approximately 16,178 acres (6,547 hectares), ranging in elevation from 530 feet above sea level at its westernmost portion immediately south of State Route 223 just 3 miles east of Arvin, to 4,500 feet at its northeastern edge, in the mountaintop portion east of SR 223 and south of SR 58. This represents a 3,970-foot elevation range.

A granite mining facility is located in the southwesternmost finger of the acquisition area. The newly created Bakersfield National Cemetery occurs in the middle of the acquisition area, just southwest of the junction of State Routes 58 and 223. Most of the property is used for livestock grazing.

In addition, a small isolated “island” of land not connected to the bulk of the White Wolf area is incorporated in the acquisition area, and is the highest elevational area of White Wolf. This relatively steep area is located on the steep slopes in the El Tejon Mountains at approximately 4,625 feet elevation.

#### *White Wolf Plant Communities*

The White Wolf acquisition area is comprised of 18 predominant habitat types, including oak woodlands, shrublands, and herbaceous communities. These vegetation alliances (and some associations) are listed below.

### FOREST AND WOODLAND

White Wolf contains four (4) distinct but often intergrading oak woodland alliances, including:

- *Quercus* (multi species) Woodland Alliance
- *Quercus douglasii* Woodland Alliance
  - *Quercus douglasii/Amsinckia eastwoodiae* Association
  - *Quercus douglasii-Aesculus californica* Association
  - *Quercus douglasii-Quercus lobata* Association
- *Quercus lobata* Woodland Alliance
  - *Quercus lobata/Amsinckia eastwoodiae* Association

- *Quercus lobata-Aesculus californica-Pinus sabiniana/Poa secunda-Bromus diandrus* Association
- *Quercus lobata-Quercus douglasii-Aesculus californica-Pinus sabiniana/Bromus diandrus* Association
- *Quercus wislizenii* Woodland Alliance

These woodland vegetation alliances are generally found on the higher elevational areas of White Wolf, with increasing canopy density with increase in elevation. *Quercus douglasii* Woodland Alliance is the most dominant woodland type on White Wolf. The herbaceous understory changes dramatically during the spring and summer months.

## SHRUBLAND

Four (4) shrubland alliances have been identified as occurring within the White Wolf acquisition area:

- *Adenostoma fasciculatum-Ceanothus greggii* ssp. *vestitus* Shrubland Alliance
- *Adenostoma fasciculatum-Rhamnus ilicifolia* Shrubland Alliance
- *Isomeris arborea* Shrubland Alliance
- *Ribes quercetorum* Provisional Shrubland Alliance

The chaparral alliances dominated by *Adenostoma fasciculatum* (Chamise) are restricted to the highest areas of White Wolf, and occupy small areas. The northern portion of White Wolf north of SR 58 contains patches of *Isomeris arborea* Shrubland Alliance, mostly on northerly facing slopes.

## GRASSLAND/HERBLAND

Fourteen (14) herbaceous alliances were identified as occurring within the White Wolf acquisition area:

- *Amsinckia intermedia* Herbaceous Alliance
- *Amsinckia eastwoodiae* Herbaceous Alliance
- *Amsinckia menziesii* Herbaceous Alliance
  - *Amsinckia menziesii* var. *intermedia*-*Castilleja exserta*-*Eschscholzia californica*-*Lupinus bicolor*-*Erodium cicutarium* Association
- *Avena barbata* Semi-Natural Stands
- *Brassica (nigra)* and other mustards Semi-Natural Stands
- *Bromus rubens* Semi-Natural Stands
- *Castilleja exserta* Herbaceous Alliance
- *Centromadia pungens* Herbaceous Alliance
- *Eschscholzia californica* Herbaceous Alliance
- *Holocarpha heermannii* Herbaceous Alliance
  - *Holocarpha heermannii*-*Eremocarpa setigerus*-*Trichostema lanceolatum* Herbaceous Association
- *Lemna miniscula* Herbaceous Aquatic Alliance
- *Lupinus benthamii* Herbaceous Alliance
- *Lupinus bicolor* Herbaceous Alliance
- *Plagiobothrys arizonicus* Herbaceous Alliance

- *Plagiobothrys arizonicus-Plagiobothrys nothofulvus-Trifolium microcephalum-Avena barbata-Bromus rubens* Herbaceous Association

The floristic dominance changes dramatically from one month to the next in the herbaceous areas of White Wolf. For example, the area west of SR223 was dominated almost exclusively by native annual forbs with very few nonnative grasses during mid-March; however, by mid-April the species dominance had flipped, with the same areas now dominated by nonnative grass species and many of the native wildflower species not even detectible. Then, in the summer months, late-flowering native forbs dominate through a thatch of nonnative grasses that have all died, but still identifiable. The alliances and associations that are/when they are dominated by native forbs create some of the most spectacular wildflower displays found anywhere on the Earth. March of 2009 was one of those years when this was quite evident.

## ***White Wolf Flora***

White Wolf provides habitat for at least 286 vascular plant species (includes subspecies and varieties), with up to 46 species not fully identified, most of which are already identified elsewhere onsite<sup>18</sup>. Of the 286 species identified, 228 (79.7%) are native and 58 (20.3%) are nonnative naturalized species, which is a slightly better ratio of natives to nonnatives for all of California (Hickman 1993) (at about 75:25% ratio).

The floristic diversity of this 16,178-acre area is fairly rich (0.018 species/acre), when compared to other similarly sized areas within the California Floristic Province<sup>19</sup>. Furthermore, it is an excellent example of what was very likely a very extensive herbaceous landscape dominated with annual wildflower species that has mostly been lost in California.

## ***White Wolf Special-status Species***

White Wolf contains seven (7) special-status plant species, including: *Clarkia speciosa* ssp. *polyantha*, *Deinandra arida*, *Eriastrum hooveri*, *Eschscholzia lemmonii* ssp. *kernensis*, *Microseris sylvatica*, *Perideridia pringlei*, and *Trichostema ovatum*. Two more, *Clarkia tembloriensis* ssp. *calientensis* and *Opuntia basilaris* var. *treleasei*, occur in the White Wolf area of Tejon Ranch but north of the acquisition area boundary. Four other rare species, *Deinandra pallida*, *Delphinium hansenii* ssp. *kernense*, *Lupinus benthamii* var. *opimus*, *Mimulus dudleyi*, were also observed in the White Wolf acquisition area. The locations at which these were observed or reported onsite are shown on Figure 3, Rare Plant Locations at White Wolf.

*Clarkia speciosa* ssp. *polyantha* is on CNPS's Postponed Taxa list; however, due to its scarcity statewide<sup>20</sup> it is considered by DMEC to meet the criteria to be considered at least on CNPS List 4 (possibly List 1B). It was found at three (3) sites in the southern portion of the "sky island" portion of the acquisition area. It is a California endemic, known from Sierra Nevada foothills of Fresno, Kern, Madera, San Barbara, and Tulare Counties.

<sup>18</sup> If all 46 of the unidentified taxa observed within White Wolf were not already counted, then the flora of the White Wolf would be 332 taxa.

<sup>19</sup> The species richness for all of Ventura County, as a comparison, is 0.002 species/acre, based on the presence of 2,125 species in the county of 1,187,612 acres.

<sup>20</sup> Only 54 vouchered records in the Consortium of California Herbaria (18 February 2010 search), from Fresno, Kern, Madera, Santa Barbara, and Tulare Counties.



*Deinandra arida* (Red Rock Tarplant) is a CNPS List 1B/State-listed Rare and is a California endemic. It was observed by Mr. Magney along SR223 in 1998 but has not been seen since in this area. This endangered plant normally occurs in the area of Red Rock Canyon State Park in northeastern Kern County and likely became established at least temporarily as a waif from an accidental seed introduction from the Red Rock Canyon population.

*Deinandra pallida* (Kern Tarplant) is a CNPS Considered but rejected species and is a California endemic. It was found scattered about the lowland portions of White Wolf at 14 points mostly west of SR233 and Bena Road. It is known from Fresno, Kern, Los Angeles, San Luis Obispo, Santa Barbara, Tulare Counties.



*Delphinium hansenii* ssp. *kernense* (Kern Larkspur) is on CNPS's Postponed Taxa list (CNPS 2008) for consideration for inclusion in the CNPS *Inventory* (CNPS 2001). It was found at one (1) location along the western edge of White Wolf in herbaceous habitats. It is a California endemic known from Kern, San Bernardino, and Tulare Counties.



*Eriastrum hooveri* (Hoover's Woolly-star) is on CNPS List 4 and is a California endemic. It was found at one (1) location on a west-facing



slope in *Quercus douglasii* Woodland between (outside) the portion of the acquisition area just east of SR223 and the “sky island” segment further to the east. While this plant was found outside the boundaries of the acquisition area, it almost certainly occurs in similar habitat within it.

*Eschscholzia lemmonii* ssp. *kernensis* (Kern Poppy) is on CNPS List 1B and is a California (Kern County) endemic. It is reported by the CNDDDB to occur in the southern portion of White Wolf south of SR223. *Eschscholzia lemmonii* ssp. *kernensis* is known from only four (4) locations in Kern County, one at White Wolf, one on Old Headquarters, one at Fort Tejon, and one on the Plieto Hills.

*Lupinus benthamii* var. *opimus* is not CNPS listed; however, it is quite rare, with only 12 voucher collections reported by the Consortium of California Herbaria database<sup>21</sup>. It was not observed in White Wolf by DMEC; however, it was previously collected from rock crevices along SR223 (F.W. Peirson 11406 RSA) in 1935 and “White Wolf Grade” at 1,500 feet (Lyman Benson 4132 POM). *Lupinus benthamii* var. *opimus* is known from Kern, Madera, and Yuba Counties.



*Microseris sylvatica* (Sylvan Scorzonella) is on CNPS List 4 and is a California endemic. It was found at five (5) locations adjacent to or near SR58 and Bena Road and on the south edge of the Bakersfield National Cemetery. *Microseris sylvatica* is known from Amador, Butte, Colusa, Contra Costa, Fresno, Glenn, Inyo, Kern, Los Angeles, Merced, Napa, Placer, San Benito, Santa Clara, Solano, Stanislaus, Tehama, Tulare, and Yolo Counties.



<sup>21</sup> Jepson Herbarium’s Consortium of California Herbaria online database, query for *Lupinus benthamii* var. *opimus* on 17 February 2010.

*Mimulus dudleyi* (Dudley Monkeyflower) is quite rare and DMEC considers it to qualify for inclusion on CNPS List 1B (Whittall et al. 2006) as it is only known from 10 other collections in Kern and Tulare Counties. It is a California endemic that has been previously submerged as a synonym under *Mimulus floribundus*, so there may be additional populations of *M. dudleyi* under that name. DMEC found it at six (6) locations at White Wolf in crevices on granitic boulders.



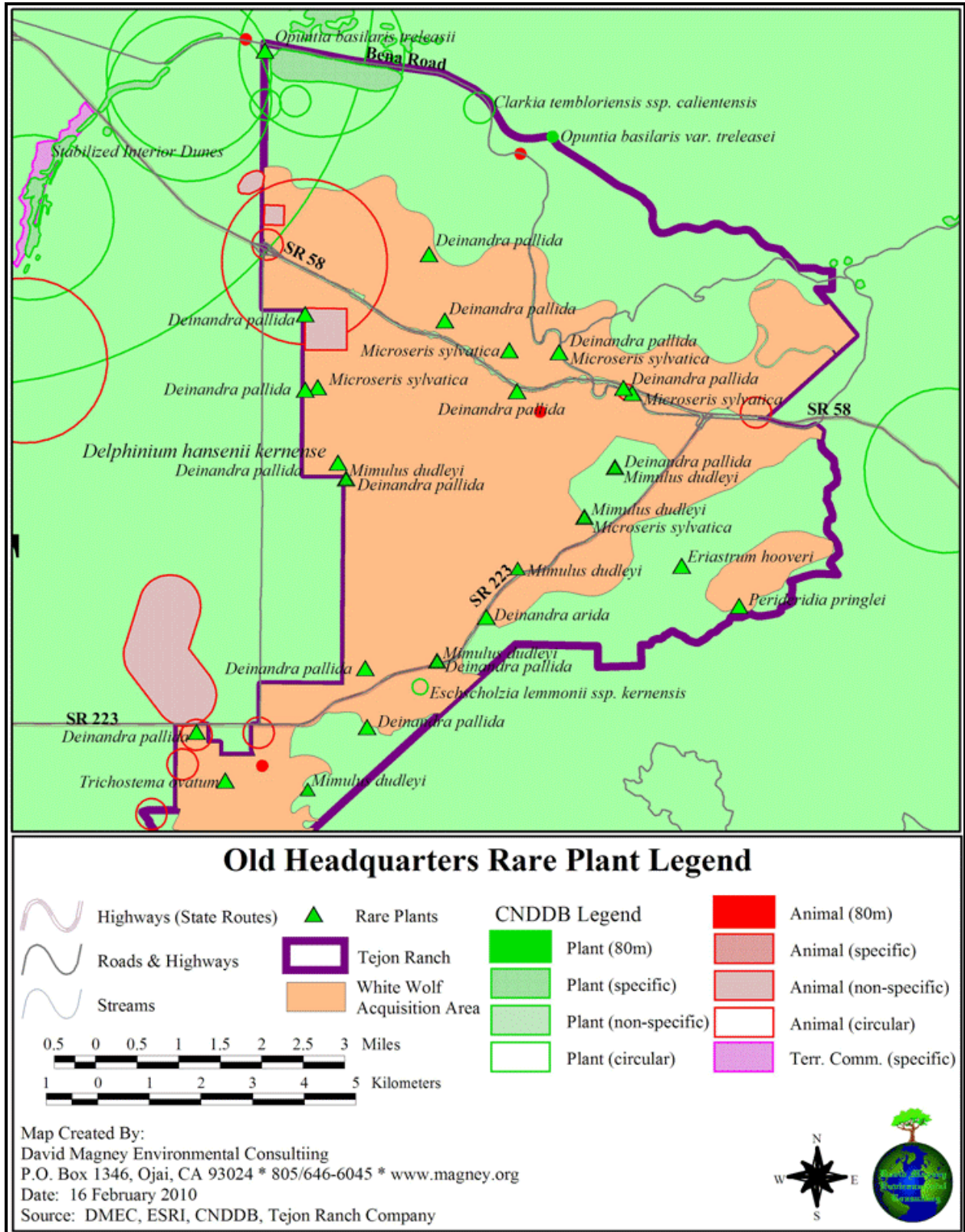
*Opuntia basilaris* var. *treleasei* (Bakersfield Cactus) is State-listed Rare and on CNPS List 1B and is a California endemic. It was found at the very northwest corner of Tejon Ranch property, beyond the White Wolf acquisition area, in the Caliente Wash floodplain on the south side of Bena Road. *Opuntia basilaris* var. *treleasei* is known only from scattered locations in Kern County.



*Perideridia pringlei* (Adobe Yampah) is on CNPS List 4 and is a California endemic. It was found at one (1) location on the south edge of the “sky island” portion of White Wolf. *Perideridia pringlei* is known from Kern, Los Angeles, Monterey, San Bernardino, San Luis Obispo, and Ventura Counties.

*Trichostema ovatum* (San Joaquin Bluecurls) is on CNPS List 4 and is a California endemic. It was found in the southwestern corner of White Wolf at one site. *Trichostema ovatum* is known from Fresno, Kern, Kings, San Luis Obispo, Santa Barbara, Tulare, and Ventura Counties.

Figure 3. Rare Plant Locations at White Wolf



## Old Headquarters Acquisition Area

### *Old Headquarters Location*

The Old Headquarters acquisition area is located in Kern County, as can be seen in Figure 2B, Map of Floristic Survey of the Old Headquarters Acquisition Area. As the name implies, this area once was the main headquarters of the Tejon Ranch. It is located approximately 9 miles southeast from the town of Arvin. The Tejon Hills are located within the northwestern-most portion of this acquisition area and the very hilly terrain in the southeastern portion runs along the western edge of the Tehachapi Mountains. Comanche Point is located just west of the acquisition area. The Old Headquarters acquisition area is approximately 26,716 acres (10,812 hectares), the area ranges in elevation from 900 feet above sea level at its westernmost edge west of the orchards, to approximately 3,000 feet at its northeastern edge. This represents a 2,100-foot elevation range.

Much like that of the White Wolf, the Old Headquarters acquisition area is primarily grassland/herbland, dominated by native wildflowers during the early spring and nonnative grass species later in the spring. It is currently being grazed by cattle, along with small areas of active agricultural lands (mostly orchards) within the western portion of the acquisition area.

The Old Headquarters area has extensive riparian areas along its many streams and drainages that discharge into the Tulare Basin, draining the higher elevations in the Tehachapi Mountains. Most notably are Tejon Creek in the northern portion (flowing westerly) and El Paso Creek located approximately down the middle of the Old Headquarters area (flowing northwesterly). There are two man-made reservoirs within the Old Headquarters area.

A large area of Valley Oak Woodland (*Quercus lobata* Woodland Alliance) is located at the confluence of Tejon Creek and Chanac Creek. Scattered oak woodland savannas are located along the western flank of the Tehachapi Mountains.

### *Old Headquarters Flora*

Old Headquarters provides habitat for at most 367 species, including 54 species that have not been fully identified. Of the 313 identified species, 247 (78.9%) are native and 68 (21.7%) are nonnative naturalized species, which is a slightly better ratio of natives to nonnatives for all of California (Hickman 1993).

The floristic diversity of this 26,716-acre area is fairly rich (0.012 species/acre), when compared to other similarly sized areas within the California Floristic Province<sup>22</sup>. Furthermore, it also is an excellent example of what was very likely a very extensive herbaceous landscape dominated with annual wildflower species that has mostly been lost in California.

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<sup>22</sup> The species richness for all of Ventura County, as a comparison, is 0.002 species/acre, based on the presence of 2,125 species in the county of 1,187,612 acres.

## *Old Headquarters Special-status Species*

Old Headquarters contains seven (7) special-status plant species, including: *Convolvulus simulans*, *Eschscholzia lemmonii* ssp. *kernensis*, *Fritillaria striata*, *Layia leucopappa*, *Mimulus pictus*, *Navarretia setiloba*, and *Opuntia basilaris* var. *treleasei*. In addition, six (6) other rare species were observed in the Old Headquarters acquisition area: *Allium howellii* var. *howellii*, *Clarkia speciosa* ssp. *nitens* (range extension southward), *Deinandra pallida*, *Delphinium hansenii* ssp. *kernense*, *Lupinus benthamii* var. *opimus*, and *Mimulus dudleyi*. The locations at which these were observed or reported onsite are shown on Figure 4, Rare Plant Locations at Old Headquarters.

*Allium howellii* var. *howellii* is not CNPS listed; however, due to its scarcity statewide<sup>23</sup> DMEC considers it to meet the criteria to be considered at least on CNPS List 4<sup>24</sup>. *Allium howellii* var. *howellii* is reported at Old Headquarters from a 1935 collection south of Caparell Creek not far southwest of the ranch gate. It is a California endemic known from Kern, Fresno, San Benito, San Luis Obispo, San Joaquin, and Merced Counties.

*Clarkia speciosa* ssp. *nitens* is not CNPS listed; however, due to its scarcity statewide<sup>25</sup> DMEC considers it to meet the criteria to be considered at least on CNPS List 4, but probably on List 1B, and this occurrence represent a range extension southward beyond its known range. It was found at one (1) site in the foothills near the northeastern edge of the Old Headquarters acquisition area. It is a California endemic, known from Fresno, Madera, Merced, San Bernardino, and Stanislaus Counties.

*Convolvulus simulans* is on CNPS List 4. It was observed at one (1) site on 4 April 2009 with *Navarretia setiloba*. This plant is a California endemic but is fairly widespread, occurring in Contra Costa, Fresno, Kern, Los Angeles, Orange, Riverside, San Benito, San Diego, San Luis Obispo, Santa Barbara, Stanislaus, Tulare, and Ventura Counties.

*Deinandra pallida* was confirmed at two (2) locations, and possibly at ten (10) other sites within the Old Headquarters acquisition area.

*Delphinium hansenii* ssp. *kernense* was found at one (1) location along the Tejon Reservoir water line road of Old Headquarters in *Quercus douglasii* Woodland Alliance habitats and possibly at three (3) other sites.

*Eschscholzia lemmonii* ssp. *kernensis* is reported by the CNDDDB to occur in the western portion of Old Headquarters south of the Tejon Hills.

*Fritillaria striata* is listed as Threatened in California and is on CNPS List 1B. It was found at two (2) sites in the northernmost part of Old Headquarters in clay soils on top of a ridge. *Fritillaria striata* is a California endemic known only from Kern and Tulare Counties.

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<sup>23</sup> Only 31 vouchered records in the Consortium of California Herbaria (16 February 2010 search), from Kern, Fresno, San Benito, San Luis Obispo, San Joaquin, and Merced Counties. Some of the vouchers are from the same population. All Ventura County records are for var. *clokeyi*.

<sup>24</sup> Confirmed by CNPS Rare Plant Botanists, Nick Jensen, email dated 18 February 2010 regarding CNPS listing of *Allium howellii* var. *howellii*.

<sup>25</sup> Only 11 vouchered records in the Consortium of California Herbaria (16 February 2010 search), from Stanislaus, Madera, Fresno, San Bernardino, and Merced Counties. The presence onsite represents the first vouchered occurrence from Kern County.



*Fritillaria striata* in fruit on 6 April 2009

*Layia leucopappa* is on CNPS List 1B. It occurs in the Old Headquarters area along Tejon Creek, Tejon Hills, and Comanche Point, based on CNDDDB records. *Layia leucopappa* is a California endemic known from Kern, eastern San Luis Obispo, and northeastern Ventura Counties.

*Lupinus benthamii* var. *opimus* was found not specifically identified from any locations at Old Headquarters; however, it is almost certainly present based on historical collections from the region (*J.B. Davy 1799 G/UC, A.A. Keller 7631 UC, JB. Davy 2654 UC*).

*Mimulus dudleyi* was found it at five (5) locations at Old Headquarters in crevices on granitic boulders.

*Mimulus pictus* is on CNPS List 1B. It was not found by DMEC during the 2009 surveys; however, Ernest Twisselmann collected it from two (2) places in Tejon Canyon (*Twisselmann 10551, 10585 JEPS*) and Carl B. Wolf collected it also from two places in Tejon Canyon (*C.B. Wolf 6352<sup>26</sup>, 6736<sup>27</sup> RSA*), possibly the same places Twisselmann collected it. Both of Wolf's collections are generally mapped by the CNDDDB. *Mimulus pictus* is a California endemic known from Kern and Tulare Counties.

*Navarretia setiloba* is on CNPS List 1B. It was found by DMEC at one (1) site in the northern part of Old Headquarters in clayey soil along a ranch road in association with *Convolvulus simulans*. *Navarretia setiloba* is a California endemic known from Kern, Tulare, and Los Angeles Counties.

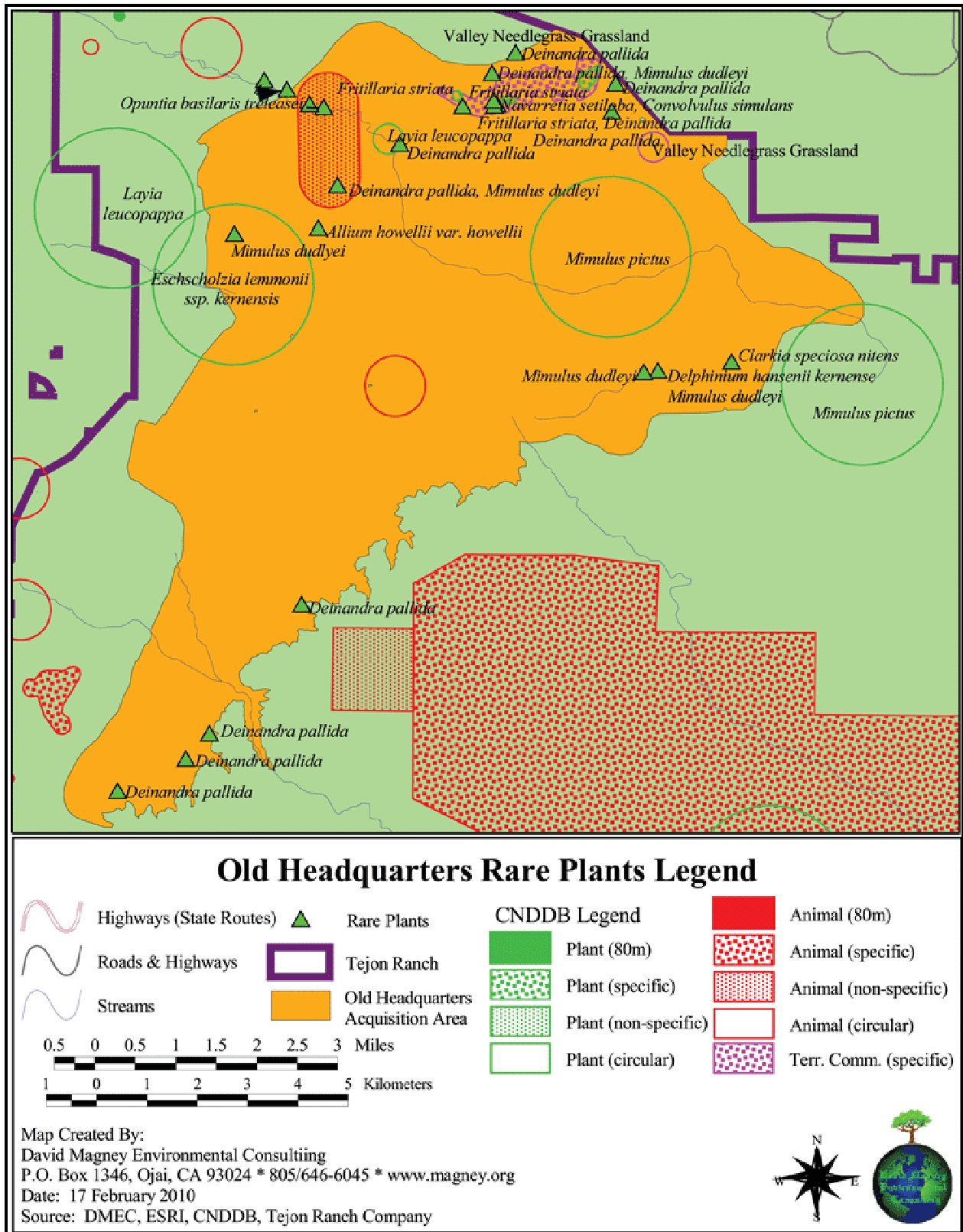
*Opuntia basilaris* var. *treleasei* is federally and state-listed Endangered and is on CNPS List 1B. It was found at the very western edge of Old Headquarters acquisition area along Tejon Creek in the Tejon Hills.

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<sup>26</sup> Tejon Creek, Tejon Ranch, 4.4 miles above Ranch Headquarters; elev. 1,700 feet

<sup>27</sup> Tejon Canyon 2.8 miles above the school; elev. 3800 ft

Figure 4. Rare Plant Locations at Old Headquarters



## *Old Headquarters Plant Communities*

### **FOREST AND WOODLAND**

Old Headquarters contains seven (7) distinct but often intergrading woodland alliances, including:

- *Eucalyptus camaldulensis* Semi-Natural Stands
- *Platanus racemosa-Quercus lobata* Woodland Alliance
- *Populus fremontii-Salix gooddingii* Woodland Alliance
- *Quercus douglasii* Woodland Alliance
- *Quercus lobata* Woodland Alliance
  - *Quercus lobata-Populus fremontii/Vitis californica* Riparian Association
  - *Quercus lobata/Bromus diandrus* Association
- *Quercus lobata* Alliance (Riparian)
- *Salix lucida* ssp. *lasiandra* Woodland Alliance
  - *Salix lucida* ssp. *lasiandra* -*Sambucus mexicana/Urtica dioica* Riparian Woodland Association

These woodland vegetation alliances are generally found on the higher elevational areas of Old Headquarters, with increasing canopy density with increase in elevation, found along the eastern edge. *Quercus douglasii* Woodland Alliance is the most dominant woodland type on Old Headquarters.

### **SHRUBLAND**

Two (2) shrubland alliances were identified as occurring within the Old Headquarters acquisition area:

- *Opuntia basilaris* var. *treleaseii* Shrubland Stand
- *Rubus ursinus* Shrubland Alliance

The shrubland alliances at Old Headquarters are mostly associated with riparian habitats. The *Opuntia basilaris* var. *treleaseii* Shrubland Stand occurs only as small patches along Tejon Creek at the western edge of the acquisition area.

### **GRASSLAND/HERBLAND**

Herblands are the predominant vegetation type at Old Headquarters, consisting of extensive wildflower fields in the early spring evolving into grass-dominated alliances and associations as the spring progresses. Fourteen (14) herbaceous alliances were observed as occurring within the Old Headquarters acquisition area:

- *Amsinckia intermedia* Herbaceous Alliance
- *Avena barbata* Semi-Natural Stands Alliance
- *Bromus rubens* Semi-Natural Stands
- *Bromus* Semi-Natural Stands
  - *Bromus diandrus* Semi-Natural Stands Association
- *Castilleja exserta* Herbaceous Alliance



- *Centromadia pungens* Herbaceous Alliance
- *Eriogonum angulosum-Bromus rubens-Erodium cicutarium* Herbaceous Alliance
- *Eschscholzia californica* Herbaceous Alliance
- *Holocarpha heermannii* Herbaceous Alliance
- *Lemna miniscula* Herbaceous Aquatic Alliance
- *Lupinus benthamii* Herbaceous Alliance
- *Nasturtium officinale* Herbaceous Alliance
- *Plagiobothrys nothofulvus* Herbaceous Alliance
- *Zauschneria californica-Rumex salicifolius* Herbaceous Alliance

Some of the grass-dominated alliances give way to summer-flowering forb-dominated alliances, such as the *Holocarpha heermannii* Herbaceous Alliance. The northern Tejon Creek valley area east of the Tejon Hills is hereby referred to as the Milky Way Valley in the early spring when it is dominated by the nearly complete dominance by Rusty Popcornflower (*Plagiobothrys nothofulvus*), as can be seen in the photograph below, looking into lower Tejon Valley from the southeast.



View north-northwest of “Milky Way” in Tejon Valley, dominated by *Plagiobothrys nothofulvus*

## **Michener Ranch Acquisition Area**

### ***Michener Ranch Location***

The Michener Ranch acquisition area is located in Los Angeles County adjacent to the Kern County border, as can be seen in Figure 2C, Map of Floristic Survey of the Michener Acquisition Area. It is located approximately 2 miles from the town of Lebec and the southernmost portion is directly 0.1 mile north of Interstate 5, at its closest point at Gorman. Michener is the smallest of the acquisition areas with approximately 1,584 acres (641 hectares); the area ranges in elevation from 3,680 feet above sea level along its northern edge to approximately 4,850 feet at its eastern edge. This represents a 1,170-foot elevation range.

Michener is essentially a rectangular shaped area located in western point of the Tehachapi Mountains. It is primarily steep terrain dominated with native wildflowers and non-native grasses, with oak woodlands tucked into south- and north-trending canyons with east- and west-facing slopes.

### ***Michener Ranch Flora***

Michener provides habitat for at most 300 species, including 72 species that have not been fully identified. Of the 228 species that have been identified, 202 (88.6%) are native and 26 (11.4%) are nonnative naturalized species, which is a significantly better ratio of natives to nonnatives for all of California (Hickman 1993).

The floristic diversity of this 1,584-acre area is rich (0.144 species/acre) when compared to other similarly sized areas within the California Floristic Province<sup>28</sup>. Furthermore, it also is an excellent example of what was very likely a very extensive herbaceous landscape dominated with annual wildflower species that has mostly been lost in California.

### ***Michener Ranch Special-status Species***

There is one (1) rare plant species found at the Michener acquisition area during the 2009 field surveys: *Lupinus excubitus* var. *austromontanus*.

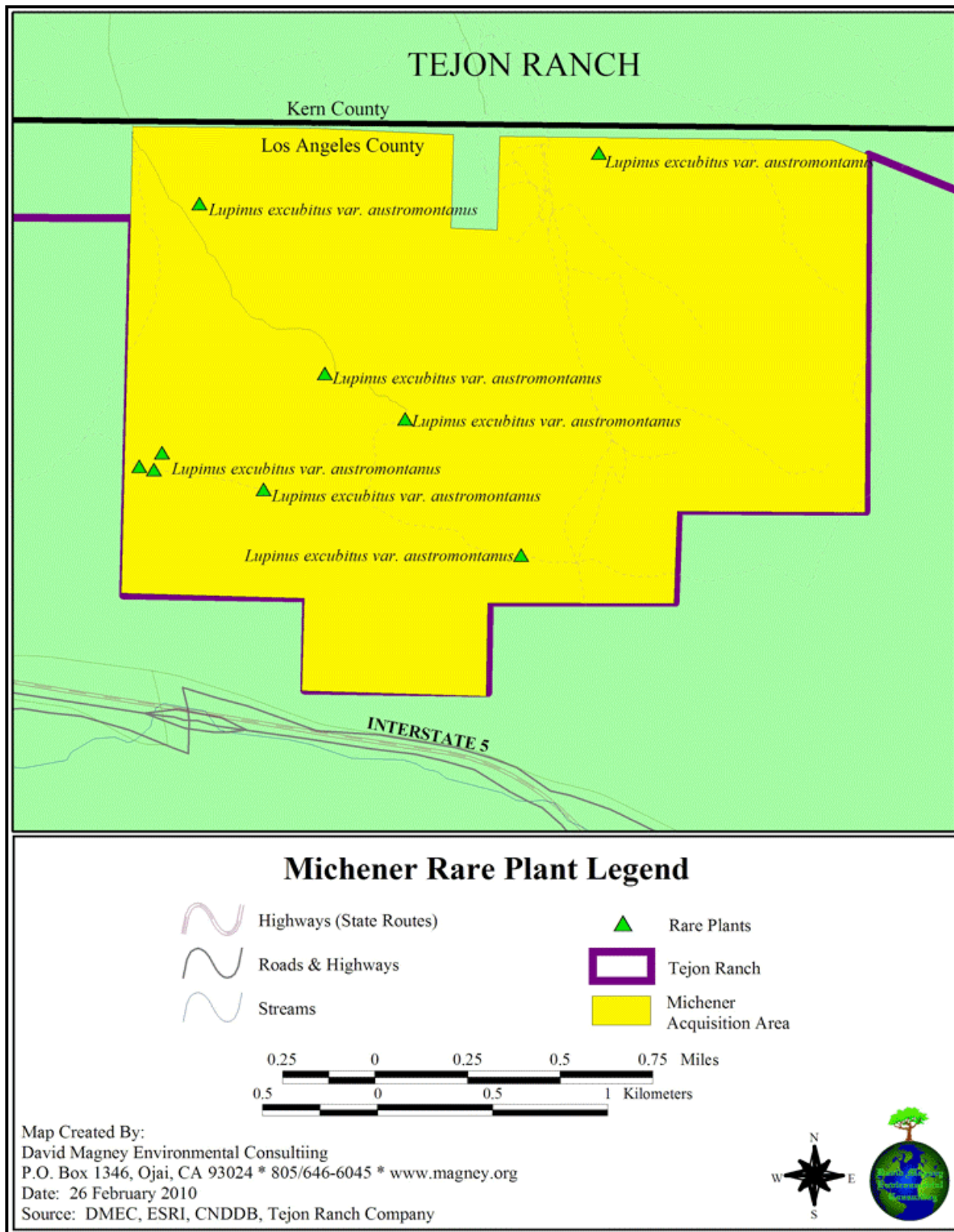
*Lupinus excubitus* var. *austromontanus* has not yet been listed by CNPS; however, it is on the Postponed Taxa list for future consideration for listing in the CNPS *Inventory*. It was found at nine (9) sites on the Michener Ranch acquisition area, primarily on the ridgetop. The locations of *Lupinus excubitus* var. *austromontanus* are shown on Figure 5, Rare Plant Locations at Michener Ranch Acquisition Area.



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<sup>28</sup> The species richness for all of Ventura County, as a comparison, is 0.002 species/acre, based on the presence of 2,125 species in the county of 1,187,612 acres.

**Figure 5. Rare Plant Locations at Michener Ranch Acquisition Area**



## *Michener Ranch Plant Communities*

### **FOREST AND WOODLAND**

Six (6) woodland vegetation alliances were observed as occurring within the Michener Ranch acquisition area:

- *Juniperus californica/Rhamnus tomentella* ssp. *cuspidata* Woodland Alliance
- *Quercus* (multi species) Woodland Alliance
- *Quercus chrysolepis* Woodland Alliance
  - *Quercus chrysolepis-Aesculus californica* Woodland Association
  - *Quercus chrysolepis-Juniperus californica* Woodland Association
- *Quercus douglasii* Woodland Alliance
- *Quercus lobata* Woodland Alliance
- *Quercus wislizeni* Woodland Alliance

Oak dominated woodland alliances characterized the treed vegetated on Michener Ranch, occurring mostly on the canyon slopes.

### **SHRUBLAND**

Five (5) shrubland vegetation alliances were observed as occurring within the Michener Ranch acquisition area:

- *Artemisia tridentata* Shrubland Alliance
- *Ericameria nauseosa* Shrubland Alliance
- *Eriogonum fasciculatum* Shrubland Alliance
- *Hesperoyucca whipplei* Shrubland Alliance
- *Ribes quercetorum* Provisional Shrubland Alliance

The shrubland plant communities are restricted to the bottoms and sides of canyon of Michener. *Artemisia tridentata* Shrubland Alliance is the most common of the shrubland alliances present at Michener. *Ribes quercetorum* Provisional Shrubland Alliance is probably the secondmost abundant shrubland alliance at Michener, found on canyon slopes and the head of several canyon bottoms.

### **GRASSLAND/HERBLAND**

Ten (10) herbaceous vegetation alliances were observed as occurring within the Michener Ranch acquisition area:

- *Amsinckia intermedia* Herbaceous Alliance
- *Bromus tectorum* Semi-Natural Stands
- *Corethrogyne filaginifolia* Herbaceous Alliance
- *Erigeron foliosus* Herbaceous Alliance
- *Eschscholzia californica* Herbaceous Alliance
- *Heterotheca villosa* Herbaceous Alliance
  - *Heterotheca villosa-Amsinckia* sp. Herbaceous Association

- *Heterotheca villosa-Eriogonum* spp. Herbaceous Association
- *Heterotheca villosa-Lupinus bicolor-Bromus tectorum* Herbaceous Association
- *Lupinus bicolor* Herbaceous Alliance
- *Lupinus excubitus* Herbaceous Alliance
- *Poa secunda* Herbaceous Alliance
- *Salvia carduacea* Herbaceous Stand Alliance
  - *Salvia carduacea-Bromus tectorum-Lupinus bicolor-Chaenactis* sp. Herbaceous Stand Association

The herbaceous alliances dominate the ridgetops of Michener, and are the predominant plant communities, by area. The south-facing slope above Gorman has outstanding displays of wildflowers during the spring of some years.

## **Bi-Centennial Acquisition Area**

### ***Bi-Centennial Location***

The majority of the Bi-Centennial acquisition area is located in Kern County with only a very small piece located within Los Angeles County, as can be seen in Figure 2D, Map of Floristic Survey of the Bi-centennial Acquisition Area. It is located approximately 5.7 miles from the town of Gorman, and is accessed by California State Route 138. This acquisition area is approximately 11,026 acres (4,462 hectares), the area ranges in elevation from 2,970 feet above sea level at its southeastern-most corner at 290<sup>th</sup> Street, to approximately 5,350 feet at its western edge. This represents a 2,380-foot elevation range.

The southwestern portion of the Tehachapi Mountains is located within the northern portions of the acquisition area. The southern portions are located within the westernmost part of the Antelope Valley, representing the westernmost part of the Mojave Desert, which is relatively flat compared to the rest of the acquisition area.

The Oso Pumping Station, associated with the California Aqueduct, is surrounded by, but excluded from the acquisition area. A portion of land proposed as Pacific Crest Trail Corridor also is excluded and bisects this acquisition area.

There are a number of drainage basins located within Bi-Centennial, the two main ones being Los Alamos Creek in the western portion (flowing south) and Pescado Creek in the eastern portion (flowing southward).

This area is especially interesting due to the convergence of several ecosystems. Scattered oak woods, riparian areas, and conifer communities can all be found within the higher elevations within the hilly terrain of the Tehachapi Mountains in the northern portions of the acquisition area. Singleleaf Pinyon Pine and California Juniper trees are interspersed with desert scrub in the mid elevation areas. And located in the relatively flat, low areas are desert scrub, native grasslands, and Joshua Tree woodlands. This area also contains spectacular displays of California Poppy in the spring.

## ***Bi-Centennial Flora***

Bi-Centennial provides habitat for at most 479 species, of which 103 have not been fully identified. Of the 378 species that have been identified, 333 (88.1%) are native and 47 (12.4%) are nonnative naturalized species, which is a significantly better ratio of natives to nonnatives for all of California (Hickman 1993).

The floristic diversity of this 11,026-acre area is rich (0.034 species/acre) when compared to other similarly sized areas within the California Floristic Province<sup>29</sup>. Furthermore, it also is an excellent example of what was very likely a very extensive herbaceous landscape dominated with annual wildflower and native perennial grass species that has mostly been lost in California.

The flora of Bi-Centennial is significantly larger, richer, than any of the other four acquisition areas, approximately 17 percent richer than the much larger Old Headquarters acquisition area.

## ***Bi-Centennial Special-status Species***

Bi-Centennial contains five (5) special-status plant species, including: *Delphinium parryi* ssp. *purpureum*, *Microseris sylvatica*, *Perideridia pringlei*, *Syntrichopappus lemmonii*, and *Thermopsis californica* var. *argentata*. In addition, two other rare plants, *Delphinium hansenii* ssp. *kernense* and *Lupinus excubitus* var. *austromontanus*, were found within the Bi-Centennial acquisition area. The locations at which these were observed or reported onsite are shown on Figure 6, Rare Plant Locations at Bi-Centennial.

*Delphinium hansenii* ssp. *kernense* was found at one (1) location on Bi-Centennial.

*Delphinium parryi* ssp. *purpureum* is on CNPS List 4. It was found at one (1) location on Bi-Centennial.

*Lupinus excubitus* var. *austromontanus* was found at eleven (11) sites on Bi-Centennial.

*Microseris sylvatica* was found at two (2) sites on Bi-Centennial.

*Perideridia pringlei* is a CNPS List 4 species. It was found at four (4) sites on Bi-Centennial. *Perideridia pringlei* ranges from the Tehachapi Mountain Area, South Coast Ranges, and Western Transverse Ranges, in Kern, Los Angeles, Monterey, San Bernardino, San Luis Obispo, and Ventura Counties.

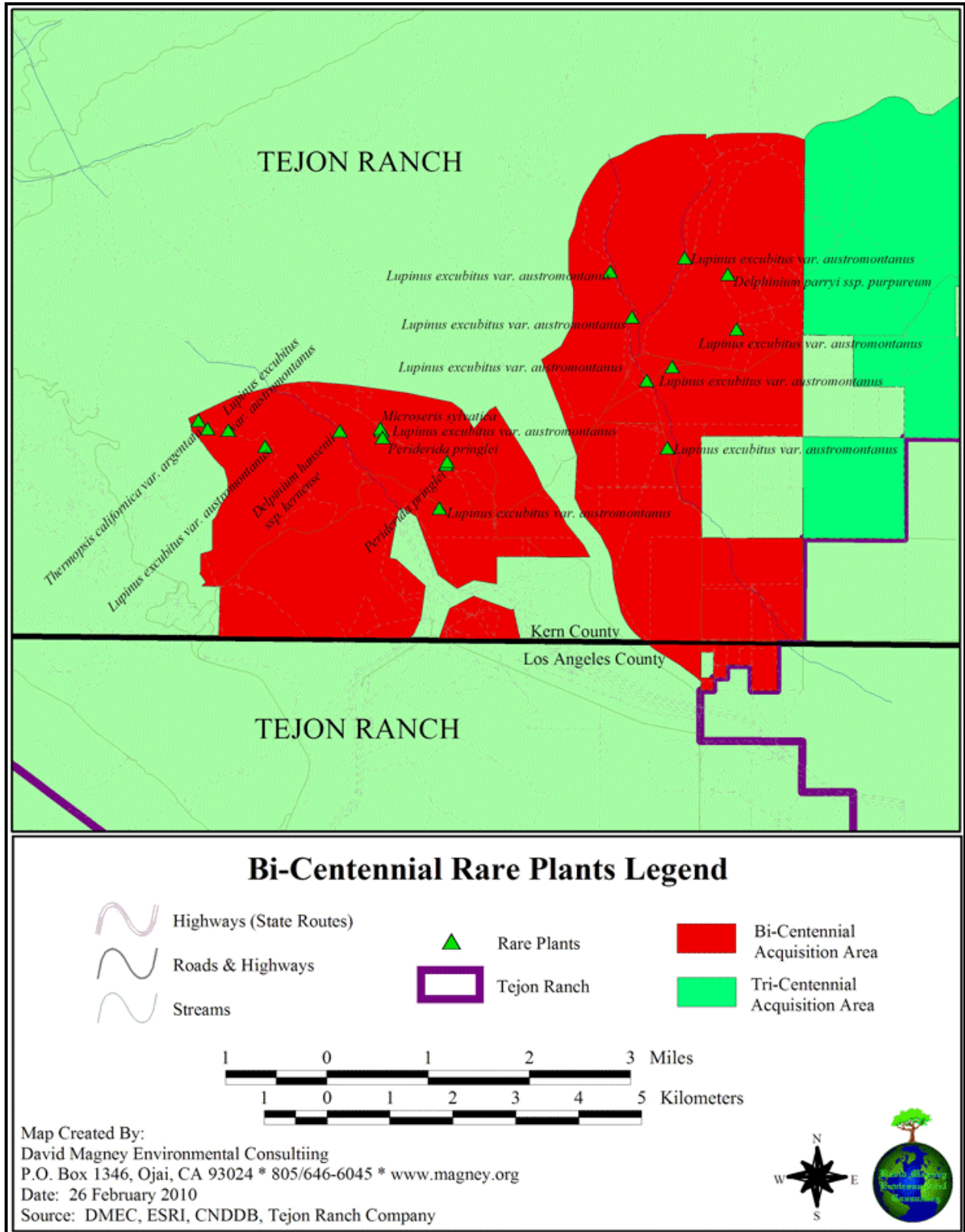
*Syntrichopappus lemmonii* is a CNPS List 4 species. It was found at one (1) site on Bi-Centennial. *Syntrichopappus lemmonii* ranges from the Antelope Valley area of the Mojave Desert, Inner South Coast Ranges, Western Transverse Ranges, San Gabriel Mountains, San Bernardino Mountains, and San Jacinto Mountains, in Kern, Los Angeles, Monterey, Riverside, San Bernardino, and Ventura Counties.

*Thermopsis californica* var. *argentata* is a CNPS List 1B species. It was found at two (2) locations on the same ridge on Bi-Centennial. *Thermopsis californica* var. *argentata* has a wide range, from northeastern California (Modoc County) to Los Angeles and Ventura Counties. It is known from Los Angeles, Modoc, Santa Barbara, Shasta, and Ventura Counties. The occurrences on Bi-Centennial represent the first records for it in Kern County.

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<sup>29</sup> The species richness for all of Ventura County, as a comparison, is 0.002 species/acre, based on the presence of 2,125 species in the county of 1,187,612 acres.

Figure 6. Rare Plant Locations at Bi-Centennial



## *Bi-Centennial Plant Communities*

### **FOREST AND WOODLAND**

Eleven (11) woodland vegetation alliances were observed as occurring within the Bi-Centennial acquisition area:

- *Fraxinus latifolia* Woodland Alliance (Riparian)
- *Juniperus californica* Woodland Alliance
- *Platanus racemosa* Woodland Alliance (Riparian)
- *Populus fremontii*-*Salix gooddingii* Woodland Alliance (Riparian)
- *Quercus* (multi species) Woodland Alliance
- *Quercus douglasii* Woodland Alliance
- *Quercus douglasii*/*Ceanothus greggii* ssp. *vestitus* Woodland Alliance
- *Quercus lobata* Woodland Alliance
- *Quercus lobata* Woodland Alliance (Riparian)
- *Salix lucida* ssp. *lasiandra* Woodland Alliance (Riparian)
- *Yucca brevifolia* Woodland Alliance
  - *Yucca brevifolia*-*Quercus lobata*/*Adenostoma fasciculatum*/*Juncus mexicanus* Association

Oak-dominated woodland alliances dominate the mountainous portion of Bi-Centennial, on the south slopes of the Tehachapi Mountains. The riparian alliances occur along the larger canyons that have well-developed streams. *Quercus douglasii* Woodland Alliance is the most common plant woodland plant community on Bi-Centennial.

### **SHRUBLAND**

Twelve (12) shrubland vegetation alliances were observed as occurring within the Bi-Centennial acquisition area:

- *Adenostoma fasciculatum* Shrubland Alliance
- *Adenostoma fasciculatum*-*Ceanothus greggii* ssp. *vestitus* Shrubland Alliance
- *Adenostoma fasciculatum*-*Quercus john-tuckeri* Shrubland Alliance
- *Adenostoma fasciculatum*-*Rhamnus ilicifolia* Shrubland Alliance
- *Ericameria linearifolia* Shrubland Alliance
- *Ericameria nauseosa* Shrubland Alliance
- *Eriogonum fasciculatum* var. *polifolium* Shrubland Alliance
- *Gutierrizia sarothrae* Provisional Shrubland Alliance
- *Gutierrizia sarothrae*-*Ericameria nauseosa* Shrubland Association
- *Isomeris arborea* Shrubland Alliance
- *Isomeris arborea*-*Ericameria nauseosa* Shrubland Alliance
- *Lepidospartum squamatum* Shrubland Alliance
- *Prunus fasciculata* Shrubland Alliance

Chaparral shrubland alliances dominate the higher elevations of Bi-Centennial. The other shrubland alliances occur in the canyons and lowland portions of Bi-Centennial.

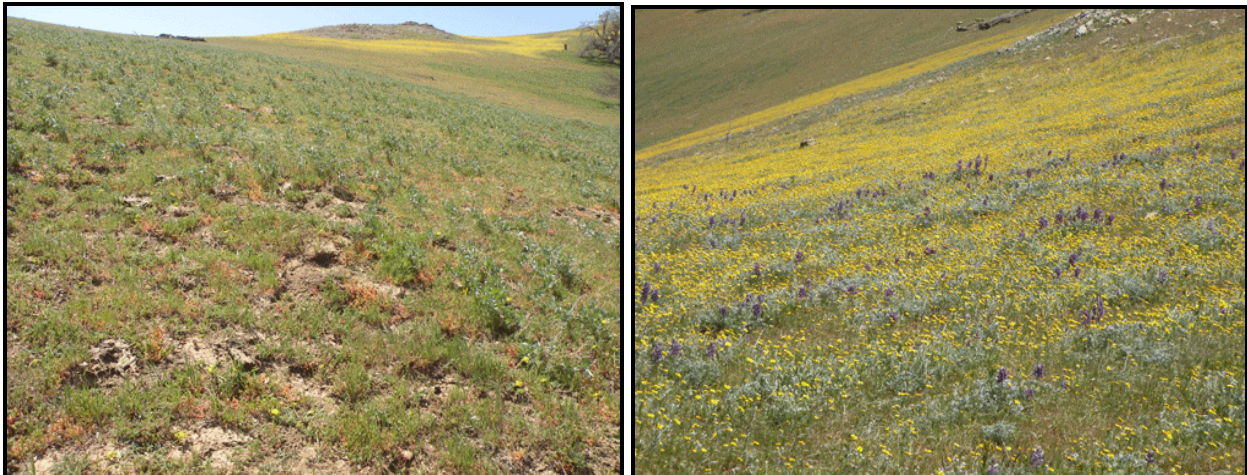


## GRASSLAND/HERBLAND

Seventeen (17) herbaceous vegetation alliances were observed as occurring within the Bi-Centennial acquisition area:

- *Amsinckia menziesii* Herbaceous Alliance
- *Avena barbata* Semi-Natural Stands
- *Bromus rubens* Semi-Natural Stands
  - *Bromus rubens-Schismus* Semi-Natural Stands Association
- *Bromus* Semi-Natural Stands
  - *Bromus hordeaceus* Semi-Natural Stands Association
- *Bromus tectorum* Semi-Natural Stands
- *Brassica (nigra)* and other mustards Semi-Natural Stands
- *Corethrogyne filaginifolia* Herbaceous Alliance
- *Eriogonum angulosum-Bromus rubens* Herbaceous Alliance
- *Eschscholzia californica* Herbaceous Alliance
- *Juncus arcticus-Carex* sp. Herbaceous Alliance
- *Juncus arcticus-Grindelia* sp. Herbaceous Alliance
- *Juncus arcticus-Stachys albens* Herbaceous Alliance
- *Monolopia lanceolata-Lupinus formusus* Herbaceous Alliance
- *Nassella pulchra* Herbaceous Alliance
  - *Nassella pulchra-Penstemon incertus* Herbaceous Association
- *Nasturtium officinale* Herbaceous Alliance
- *Phacelia imbricata-Bromus diandrus* Herbaceous Alliance
- *Thermopsis californica* Herbaceous Stand

DMEC expects that additional wildflower field-type alliances also occur in this area. The dominance of any one wildflower species, such as *Eschscholzia californica*, may vary considerably from one year to the next.



Photos of *Thermopsis californica* Herbaceous Stand (left) and *Monolopia lanceolata-Lupinus formusus* Herbaceous Alliance (right, and in background of right photo).

## Tri-Centennial Acquisition Area

### *Tri-Centennial Location*

Tri-Centennial acquisition area is located in Kern County on the Los Angeles County border, as can be seen in Figure 2E, Map of Floristic Survey of the Tri-Centennial Acquisition Area. It is located directly east of, and contiguous with Bi-Centennial. This acquisition area is approximately 7,184 acres (2,907 hectares), the ranges in elevation from approximately 3,066 feet above sea level at its southwestern-most corner at 290<sup>th</sup> Street, to approximately 4,800 feet near its northwestern corner. This represents a 1,734-foot elevation range.

Unlike Bi-Centennial, Tri-Centennial is much more open and dryer. This area is primarily dominated by desert scrub, interspersed with Singleleaf Pinyon Pine and California Juniper trees. A large area of Joshua Tree Woodland is located within the eastern half of the acquisition area. Native bunchgrass grasslands dominate the lower portions of the area.

### *Tri-Centennial Flora*

Tri-Centennial provides habitat for at most 309 species, of which 69 have not been fully identified. Of the 240 identified species, 221 (92.1%) are native and 19 (7.9%) are nonnative naturalized species, which is a significantly better ratio of natives to nonnatives for all of California (Hickman 1993). Tri-Centennial represents the purest flora of the five acquisition areas, in terms of percentage of native vascular plants.

The floristic diversity of this 7,184-acre area is rich (0.033 species/acre) when compared to other similarly sized areas within the California Floristic Province<sup>30</sup>. Furthermore, it also is an excellent example of what was very likely a very extensive herbaceous landscape dominated with annual wildflower and native perennial grass species that has mostly been lost in California, as well as containing good examples of high desert woodlands. Furthermore, Tri-Centennial contains some extremely unusual, if not unique, plant assemblages, such as *Yucca brevifolia*, *Quercus lobata*, *Adenostoma fasciculatum*, and *Juncus balticus* all growing at the same location.

### *Tri-Centennial Special-status Species*

Tri-Centennial contains only three (3) rare plant species: *Delphinium hansenii* ssp. *kernense*, *Lupinus benthamii* var. *opimus*, and *Lupinus excubitus* var. *austromontanus*. The locations at which these three taxa were observed onsite are shown on Figure 7, Rare Plant Locations at Tri-Centennial.

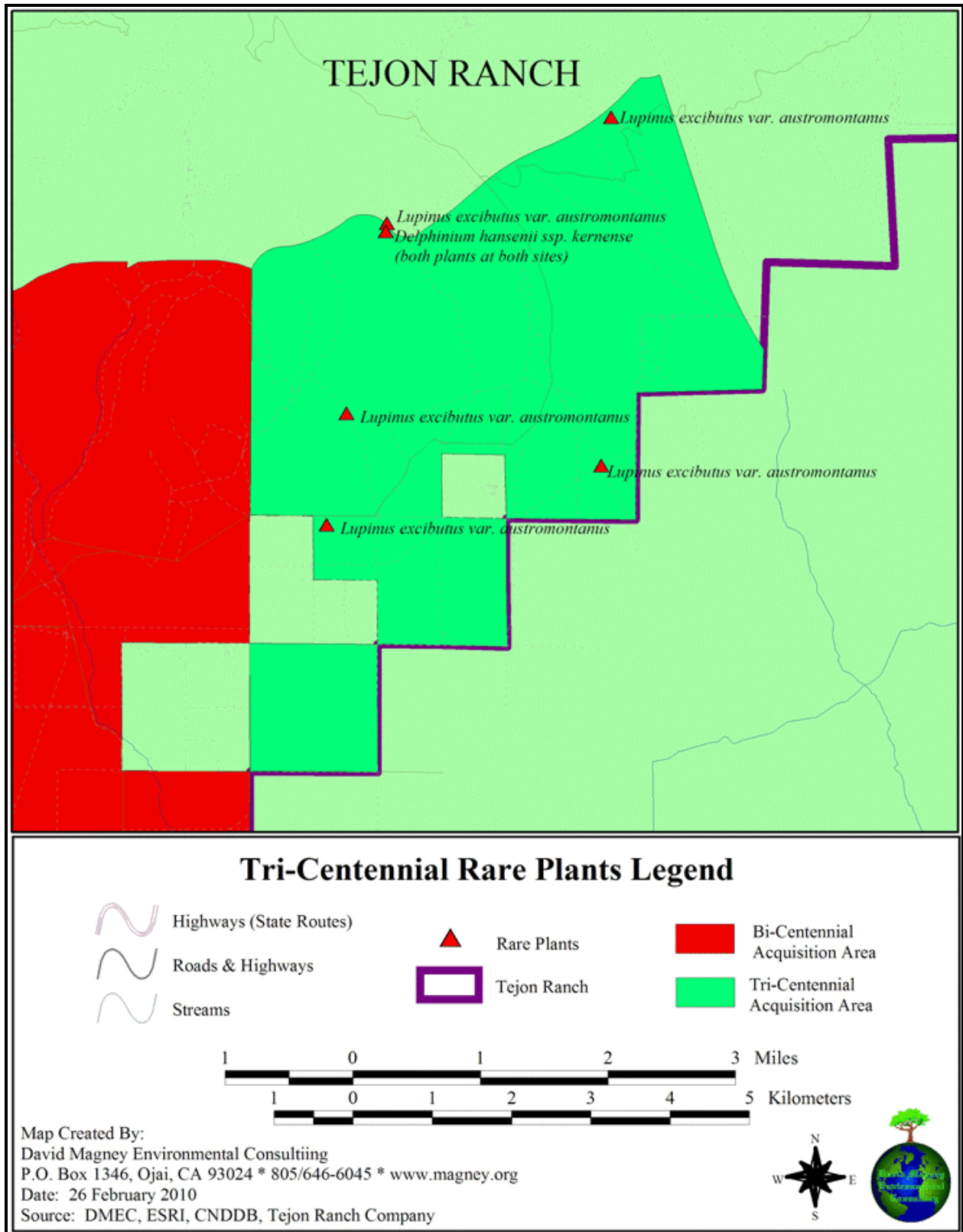
*Delphinium hansenii* ssp. *kernense* was found at one (1) location in the Tri-Centennial acquisition area. *Lupinus benthamii* var. *opimus* was not observed in the Tri-Centennial acquisition area; however, *Lupinus benthamii* var. *benthamii* was found at seven (7) sites, one or more of which may actually include var. *opimus*<sup>31</sup>. *Lupinus excubitus* var. *austromontanus* was found six (6) sites in the Tri-Centennial acquisition area.

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<sup>30</sup> The species richness for all of Ventura County, as a comparison, is 0.002 species/acre, based on the presence of 2,125 species in the county of 1,187,612 acres.

<sup>31</sup> Time constraints prevented DMEC botanists from checking every individual plant to distinguish which variety was present.

Figure 7. Rare Plant Locations at Tri-Centennial



## *Tri-Centennial Plant Communities*

### **FOREST AND WOODLAND**

Three (3) woodland vegetation alliances were observed as occurring within the Tri-Centennial acquisition area:

- *Juniperus californica* Woodland Alliance
- *Yucca brevifolia* Woodland Alliance
- *Yucca brevifolia-Juniperus californica* Woodland Alliance

*Yucca brevifolia-Juniperus californica* Woodland Alliance is the most abundant woodland alliance of the Tri-Centennial acquisition area, occurring primarily in the lower elevation (southeastern) parts of Tri-Centennial. *Yucca brevifolia* Woodland Alliance was most often found in canyon bottoms at the foot of the Tehachapi Mountains. *Juniperus californica* Woodland Alliance was most often found on lateral ridgetops and canyon slopes.



Photos show *Juniperus californica* (left) and *Yucca brevifolia* Woodland Woodland Alliances in the Mojave Desert portion of Tri-Centennial.

### **SHRUBLAND**

Eight (8) shrubland vegetation alliances were observed as occurring within the Tri-Centennial acquisition area:

- *Encelia farinosa* Shrubland Alliance
- *Encelia farinosa/Achnatherum speciosum* Shrubland Alliance
  - *Encelia farinosa-Eriogonum heermanii/Achnatherum speciosum* Shrubland Association
- *Ericameria linearifolia* Shrubland Alliance
- *Ericameria linearifolia-Eriogonum fasciculatum* Shrubland Alliance
- *Ericameria nauseosa* Shrubland Alliance
- *Eriogonum fasciculatum* var. *polifolium* Shrubland Alliance
- *Eriogonum heermanii* Provisional Shrubland Alliance
  - *Eriogonum heermanii-Ericameria nauseosa/Achnatherum speciosum* Shrubland Association

- *Gutierrezia californica* Shrubland Alliance

Shrubland alliances dominated by *Ericameria linearifolia* were the most widespread and common types in the Tri-Centennial acquisition area, occurring on ridgetops and flats.

## GRASSLAND/HERBLAND

Eight (8) herbaceous vegetation alliances were observed as occurring within the Tri-Centennial acquisition area:

- *Achnatherum hymenoides* Herbaceous Alliance
- *Amsinckia menziesii* Herbaceous Alliance
- *Bromus rubens* Semi-Natural Stands
- *Eriogonum angulosum*-*Bromus rubens*-*Erodium cicutarium* Herbaceous Alliance
- *Eschscholzia californica* Herbaceous Alliance
- *Juncus arcticus*-*Carex* spp. Herbaceous Alliance
- *Lupinus benthamii* Herbaceous Alliance
  - *Lupinus benthamii*-*Salvia columbariae*-*Coreopsis* sp. Herbaceous Association
- *Poa secunda* Herbaceous Alliance

DMEC expects that additional wildflower field-type alliances also occur in this area.

## SECTION 4. RECOMMENDATIONS

DMEC's survey of the Tejon Ranch Conservancy acquisition areas resulted in a species-rich flora and diverse habitats, including several special-status species. Additional springtime surveys are recommended, which would almost certainly increase the number of taxa found within the study area, with emphasis during the early spring months, February and March.

DMEC observed sixteen (16) special-status plant species during the surveys of 2009. These, and other species, should be carefully mapped and protected from land use activities that would adversely affect them. Certainly, additional populations of these 16 species are present onsite, as well as other special-status species.

DMEC estimated 34 published (Sawyer et al. 2009) plant communities (alliances) occur in the five acquisition areas, and another 39 new plant communities occurred consistently across one or more of the acquisition areas. The natural vegetation should be mapped and classified to better characterize and understand the flora of the acquisition areas. The waypoints for this floristic survey can be used as groundtruthing points as a starting point for mapping all the plant communities present.

Based on the 2009 floristic surveys, DMEC finds that this property contains significant and valuable botanical resources that warrant preservation. The property and its associated biological resources is deserving of management for long-term conservation and preservation as an important part of the biodiversity of Los Angeles and Kern Counties and the State of California.

## SECTION 5. ACKNOWLEDGEMENTS

This report was written by David Magney, David Brown, and Callen Huff. Mr. Magney and Ms. Huff created all graphics for this report. Mr. Magney, Mitchell Provance, Mr. Brown, and Ms. Huff, with help from Spencer Westbrook, conducted the botanical resources survey and photographed the property over the spring and summer of 2009. Mr. Spencer and David Torfet assisted with data compilation and management. Mr. Provance and Mr. Magney took the lead on plant identification.

Dr. Dieter Wilken, Vice President for Collections at the Santa Barbara Botanic Garden, assisted with identification of several taxa. Rhonda Riggins advised on identification of an annual *Lupinus* species. Ms. Julie Evans, CNPS Vegetation Program Director, provided guidance on protocols and rationale for naming new vegetation alliances not previously published by CNPS.

Michael White of The Tejon Ranch Conservancy provided logistical and project coordination assistance throughout this project and reviewed the report. Dudek reviewed a copy of the report and provided some useful suggestions to improve it.

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