

City of San Diego MSCP Rare Plant Monitoring: 2009 Summary Results

Species	Site Name	Population				Native		Non-Native		Management Recommendation's	Field Data Sht (pg.#)	Photo number
		Area (m <sup>2</sup> ) <sup>1</sup>	Area (ft <sup>2</sup> ) <sup>1</sup>	# Individuals	Percent cover	Number of Species <sup>2</sup>	Percent Cover <sup>2,3</sup>	Number of Species	Percent Cover <sup>3</sup>			
<b><i>Acanthomintha ilicifolia</i></b> (San Diego Thorn-mint)	Black Mountain	5.0	54.0	3	0.5%	13	15%	3	85%	Weeding	8	1
	Dennery Ranch East	800.0	8608.0	500	1.0%	10	28%	6	22%	Control Weeds	12	2
	Mission Trails Regional Park	16.0	172.0	150	1%	14	18%	8	81%	Weeding	16	3
	Otay Lakes	†	†	†	†	†	†	†	†	†	†	†
	Penasquitos Canyon Obs. 1	4.0	43.1	103	1%	10	24%	4	69%	Weeding, Continue to maintain fence	20	4
	Penasquitos Canyon Obs. 2	5.7	61.1	60	2%	10	16%	6	61%	Weeding	22	5
	Penasquitos Canyon Obs. 3	8.0	86.1	15	1%	7	39%	6	32%	Weeding, Maintain fence	24	6
	Sabre Springs East Subpopulation	9.0	96.9	200	5%	7	48%	7	72%	Manage mustard and other invasives through weeding	26	7
	Sabre Springs South Subpopulation	225.0	2421.0	600	3%	8	26%	12	63%	Weeding to remove exotics	30	9
	Sabre Springs West Subpopulation	225.0	2421.0	150.0	3%	5	12%	8	28%	Weeding	28	8
Note: Primary invasives at all <i>A. ilicifolia</i> sites are Black Mustard ( <i>Brassica nigra</i> ), Tocolote ( <i>Centaurea melitensis</i> ), and non-native grasses.												
<b><i>Agave shawii</i></b> (Shaw's Agave)	Note: Monitoring location appears to be on lands not owned by the City of San Diego.											
<b><i>Ambrosia pumila</i></b> (San Diego Ambrosia)	Mission Trails Regional Park Kumeayay Lake	16809.0	180931.0	7000	1%	10	13%	8	83%	Implement weed control per CNLM study when complete, continue fence maintenance	36	10
<b><i>Arctostaphylos glandulosa</i></b> <b>ssp. <i>Crassifolia</i></b> (Del Mar Manzanita)	Crest Canyon #1 South	†	†	†	†	†	†	†	†	†	†	†
	Crest Canyon #1 South	†	†	†	†	†	†	†	†	†	†	†
	Crest Canyon #2 North	†	†	†	†	†	†	†	†	†	†	†
	Del Mar Mesa Obs. 1	†	†	†	†	†	†	†	†	†	†	†
	Del Mar Mesa East Obs. 2	†	†	†	†	†	†	†	†	†	†	†
	Penasquitos Canyon	†	†	†	†	†	†	†	†	†	†	†
	San Dieguito River Bluffs Obs. 1	†	†	†	†	†	†	†	†	†	†	†
<b><i>Baccharis vanessae</i></b> (Encinitas Baccharis)	†	†	†	†	†	†	†	†	†	†	†	†



**Photo 7. *Acanthomintha ilicifolia* (San Diego Thornmint)  
Sabre Springs East Subpopulation # 1**



Panorama from South edge of subpopulation, facing Northwest, North, Northeast, East.  
Panorama location is 6303390.7 1923506.3 NAD83 State Plane California Zone 6 (feet)  
Photos merged using ArcSoft Panorama Maker 4.

**Multiple Species Conservation Program (MSCP) Rare Plant Field Survey Form**

Scientific Name: *Acanthomintha illicifolia* Common Name: San Diego Thormint  
 Site Name: Babre Springs - S Subpop (#8) Management Unit #: TBD  
 Date: 4/30/09 Management Regime: TBD  
 Surveyors and Affiliation/Agency: Kelly Miller City of San Diego Park Open Space  
 Keith Greer SANDAG

Species Found?  Yes  No If not, why (if reason known or suspected)?  
 Total No. Individuals: 600  Exact  Estimate (use orders of 10, 100 and 1000 for estimates)  
 Population/Subpopulation Area: 15 x 15 m  Exact (based on GPS mapping)  Estimate  
 Units  
 Collection (if not collected previously)?  Yes  No  Collected Previously  
 If yes: Collector \_\_\_\_\_ Collection Number \_\_\_\_\_ Museum/Herbarium \_\_\_\_\_

**I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION**

Accuracy of Coordinates/GPS Error: +/- 1  meters  feet  
 Observation Location: 6303165.84 1923485.4  State Plane (feet)  UTM

**II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT**

Vegetation Community: non-native grassland  
 Landowner/Manager: City of San Diego Park + Recreation  
 Overall Site Quality\*\*  Very Good-Excellent  Fair to Good  Poor  Very Poor  
 Surrounding land use: open space, residential, industrial

Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible): non native grasses  
 Management Recommendation/s: weeding to remove exotics

**III. ASSOCIATED SPECIES**

List dominant, subdominant and invasive species in/near target species observation area/management unit.  
 Species=List all species (sci. name). Use \* to indicate non-native species; 'Cover' = % cover of species; Note if collected by checking 'Coll.' column; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted).

Species	Cover	Coll?	Coll. #	Species	Cover	Coll?	Coll. #
<i>Acanthomintha illicifolia</i>	3			<i>Desmodium fasciculata</i>	10		
<i>Adolphia californica</i>	5			<i>Rhus integrifolia</i>	1		
* <i>Ayera fatua</i>	40			* <i>Sonchus oleraceus</i>	1		
* <i>Bromus madritensis</i> ssp. <i>rubens</i>	5			* <i>Brachypodium dist.</i>	3		
* <i>Bromus hordeaceus</i>	5			* <i>Lolium multiflorum</i>	<1		
* <i>Picris</i> sp.	1			<i>Nassella lepta</i>	1		
* <i>Pharus minor</i>	3			<i>Blomeria crocea</i> ssp. <i>crocea</i>	1		
* <i>Eriohatta</i> sp.	1			<i>Quercus dumosa</i>	3		

**IV. SITE PHOTOMONITORING**

Camera type: Nikon Coolpix (S560)  
 Location [State Plane (ft)]: 6303165.84 1923485.4 Direction (facing): SE, S, SW Height: 1.1m Camera Angle: ~50 down Photo #: 703-705 os/mscp File location/s: \_\_\_\_\_

**V. OTHER FIELD NOTES**

Other Field Notes/Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*\* Use Trudgen & Keighery Vegetation Condition Scale Descriptions (see back of form or instructions)

Continue on back if needed.

<u>Species</u>	<u>% Cover</u>
* <i>Brassica nigra</i>	1
* <i>Centauria melitensis</i>	< 1
* <i>Apogonias arvensis</i>	1
Unk bulb	1
<i>Dichostemma capitatum</i>	< 1
Bare ground	5
<i>Apiastrum angustifolium</i>	3

**Photo 9. *Acanthomintha ilicifolia* (San Diego Thornmint)  
Sabre Springs Southern Subpopulation # 3**



Panorama from Southwestern edge of subpopulation, facing Southeast, South, Southwest.  
Panorama location is 6303165.7 1923485.4 NAD83 State Plane California Zone 6 (feet)  
Photos merged using ArcSoft Panorama Maker 4.



**Photo 8. *Acanthomintha ilicifolia* (San Diego Thornmint)  
Sabre Springs West Flat Subpopulation # 2**



Panorama from Northwestern edge of subpopulation, facing South, Southwest, West.  
Panorama location is 6303277.454 1923560.662 State Plane California Zone 6 (feet)  
Photos merged using ArcSoft Panorama Maker 4.

## **Acknowledgments**

The following staff assisted in the preparation of this report:

Betsy Miller, Biologist III

Jeanie Gaudette, Open Space Intern

Melea Logan, Open Space Intern