

## Report for *Oenothera deltooides* ssp. *howellii*

### TAXON DETAILS

#### Classification

<b>Scientific Name</b>	<i>Oenothera deltooides</i> Torr. & Frem. ssp. <i>howellii</i> (Munz) W. Klein
<b>Common Name</b>	Antioch Dunes evening-primrose
<b>Family</b>	Onagraceae
<b>Element Code</b>	PDONA0C0B4
<b>USDA Plants Symbol</b>	<u>OEDEH</u>
<b>Synonyms/Other Names</b>	

#### Conservation Status

<b>California Rare Plant Rank</b>	1B.1
<b>Global Rank</b>	G5T1
<b>State Rank</b>	S1
<b>CESA</b>	CE (11/01/78)
<b>FESA</b>	5/27/78 (5/27/78)
<b>Other Status</b>	SB_CalBG/RSABG; SB_UCBG
<b>CRPR Changes</b>	
<b>Date Added</b>	1974-01-01
<b>Last Update</b>	2023-06-06

#### Ecology and Life History

<b>Lifeform</b>	perennial herb
<b>Blooming Period</b>	Mar-Sep
<b>Elevation m (ft)</b>	0-30 (0-100)
<b>General Habitats</b>	Inland dunes
<b>Microhabitat Details</b>	
<b>Microhabitat</b>	

**Threat List Data from the CNDDDB**

<b>Threat List Total:</b>		7
	<b>Total EOs</b>	<b>Percent EOs</b>
<b>EOs with Threats Listed</b>	<b>6</b>	<b>60%</b>
<b>Threat List:</b>		
Non-native plant impacts	4	40%
Other	2	20%
Development	2	20%
Mining	2	20%
Biocides	1	10%
Foot traffic/trampling	1	10%
Recreational use (non-ORV)	1	10%

**Element Occurrence Data from the CNDDDB**

<b>Total Element Occurrences:</b>	10
<b>Element Occurrence Ranks:</b>	
Excellent (A)	0
Good (B)	0
Fair (C)	4
Poor (D)	1
None (X)	1
Unknown (U)	4
<b>Occurrence Status</b>	
Historical, > 20 years	6
Recent, < 20 years	4
<b>Presence</b>	
Presumed Extant	9
Possibly Extirpated	1
Presumed Extirpated	0

**Location**

**California Endemic** Yes

**Counties**  
 Contra Costa (CCA), Sacramento (SAC)

**States**  
 California (CA)

**Quads**  
 Antioch North (3812117), Brentwood (3712186), Clayton (3712188), Honker Bay (3812118), Jersey Island (3812116), Walnut Creek (3712281)

**Notes**

Definitions of codes preceding a county and/or quad:

\* Presumed extirpated

(\*) Possibly extirpated

Species may be present in other areas where conditions are favorable. These data should NOT be substituted for pre-project review or for on-site surveys.

## **Notes**

Occurrences from SAC Co. (480C) and CCA Co. (481C) are introduced. Seriously threatened by mining, agriculture, industrial development, and non-native plants. Recovery work in progress. Protected in part at Antioch Dunes NWR (USFWS). See *Aliso* 2:81 (1949) for original description, *Four Seasons* 3(1):2-4 (1969) for threat information, and *Biological Conservation* 65:257-278 (1993) for population biology.

## **Threats**

## **Taxonomy**

## **Selected References**

**Other:** Recovery Plan for *Oenothera deltooides* ssp. *howellii* (Antioch Dunes evening-primrose) (1984)

**Other:** Recovery Plan Amendment for *Oenothera deltooides* ssp. *howellii* (Antioch Dunes evening-primrose) (1984)

**Other:** Critical habitat for *Oenothera deltooides* ssp. *howellii*

## **Suggested Citation**

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