

Report for *Oenothera deltoides* ssp. *howellii***TAXON DETAILS****Classification**

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

Conservation Status

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

Ecology and Life History

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

Threat List Data from the CNDDDB

Threat List Total:		7
	Total EOs	Percent EOs
EOs with Threats Listed	6	60%
Threat List:		
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

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

Taxononmy

Selected References

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

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

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

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