

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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