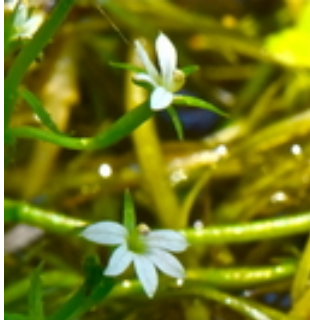
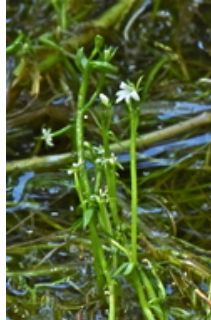


## Report for *Howellia aquatilis*

### TAXON DETAILS



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### Classification

Scientific Name	<i>Howellia aquatilis</i> Gray
Common Name	water howellia
Family	Campanulaceae
Element Code	PDCAM0A010
USDA Plants Symbol	<u>HOAQ</u>
Synonyms/Other Names	

### Conservation Status

California Rare Plant Rank	2B.2
Global Rank	G3
State Rank	S2
CESA	None
FESA	7/16/21 (7/16/21)
Other Status	
CRPR Changes	changed from 2.2 to 2B.2 on 2013-06-12
Date Added	1974-01-01
Last Update	2023-06-06

### Ecology and Life History

Lifeform	annual herb (aquatic)
Blooming Period	Jun
Elevation m (ft)	1085-1290 (3560-4230)
General Habitats	Marshes and swamps (freshwater)
Microhabitat Details	
Microhabitat	

## Threat List Data from the CNDDDB

<b>Threat List Total:</b>		3
	<b>Total EOs</b>	<b>Percent EOs</b>
<b>EOs with Threats Listed</b>	<b>3</b>	<b>43%</b>
<b>Threat List:</b>		
Foot traffic/trampling	1	14%
Non-native plant impacts	1	14%
Other	1	14%

## Element Occurrence Data from the CNDDDB

<b>Total Element Occurrences:</b>	7
<b>Element Occurrence Ranks:</b>	
Excellent (A)	2
Good (B)	2
Fair (C)	1
Poor (D)	0
None (X)	0
Unknown (U)	2
<b>Occurrence Status</b>	
Historical, > 20 years	1
Recent, < 20 years	6
<b>Presence</b>	
Presumed Extant	7
Possibly Extirpated	0
Presumed Extirpated	0

## Location

<b>California Endemic</b>	No
<b>Counties</b>	
Humboldt (HUM), Mendocino (MEN), Trinity (TRI)	
<b>States</b>	
California (CA), Idaho (ID), Montana (MT), Oregon (OR)*, Washington (WA)	
<b>Quads</b>	
Alderpoint (4012325), Black Lassic (4012335), Buck Rock (3912288), Fort Seward (4012326), Leech Lake Mtn. (3912381)	

### **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

Federally listed as threatened on 1994-08-15; Delisted due to Recovery on 2021-07-16. Rediscovered in CA in 1996 by D. Isle and D. Eiseff. Previously known in CA from only a single collection near Howard Lake in 1928; where possibly extirpated by cattle grazing and trampling. Endangered in ID and OR, and state-listed as Threatened in WA.

## Threats

Threatened by hydrological alteration, grazing, and trampling.

## Taxononmy

Threatened by hydrological alteration, grazing, and trampling.

## Selected References

**Original Description:** *Proceedings of the American Academy of Arts and Sciences* 15:43 (1879)

**Species Account:** *Howellia aquatilis* profile for potential Species of Conservation Concern evaluation (2018)

**Other:** Recovery Plan for *Howellia aquatilis* (water howellia) (USFWS 1996)

**Other:** *Wasmann Journal of Biology* 33:90-91 (1975) [CA record]

**Other:** *Conservation Biology* 2(3):275-282 (1988) [Ecological information]

**Other:** *Fremontia* 25:3 (1997) [Account of rediscovery]

## Suggested Citation

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