

## Report for *Botrychium crenulatum*

### TAXON DETAILS



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### Classification

Scientific Name	<i>Botrychium crenulatum</i> W. Wagner
Common Name	scalloped moonwort
Family	Ophioglossaceae
Element Code	PPOPH010L0
USDA Plants Symbol	<u>BOCR</u>
Synonyms/Other Names	

### Conservation Status

California Rare Plant Rank	2B.2
Global Rank	G4
State Rank	S3
CESA	None
FESA	None
Other Status	USFS_S
CRPR Changes	changed from 2.2 to 2B.2 on 2013-06-12
Date Added	1984-01-01
Last Update	2023-06-06

### Ecology and Life History

Lifeform	perennial rhizomatous herb
Blooming Period	Jun-Sep
Elevation m (ft)	1268-3280 (4160-10760)
General Habitats	Bogs and fens, Lower montane coniferous forest, Marshes and swamps (freshwater), Meadows and seeps, Upper montane coniferous forest
Microhabitat Details	
Microhabitat	

## Threat List Data from the CNDDDB

<b>Threat List Total:</b>		12
	<b>Total EOs</b>	<b>Percent EOs</b>
<b>EOs with Threats Listed</b>	<b>80</b>	<b>52%</b>
<b>Threat List:</b>		
Logging	32	20%
Grazing	28	18%
Foot traffic/trampling	18	11%
Other	16	10%
Road/trail construction/maint.	12	7%
Recreational use (non-ORV)	8	5%
Altered flood/tidal/hydrologic regime	7	4%
Erosion/runoff	6	3%
ORV activity	4	2%
Improper burning regime	2	1%
Wood cutting or brush clearing	2	1%
Groundwater pumping	1	0%

## Element Occurrence Data from the CNDDDB

<b>Total Element Occurrences:</b>	155
<b>Element Occurrence Ranks:</b>	
Excellent (A)	9
Good (B)	40
Fair (C)	33
Poor (D)	8
None (X)	0
Unknown (U)	65
<b>Occurrence Status</b>	
Historical, > 20 years	32
Recent, < 20 years	123
<b>Presence</b>	
Presumed Extant	155
Possibly Extirpated	0
Presumed Extirpated	0

## Location

<b>California Endemic</b>	No
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### **Counties**

Alpine (ALP), Amador (AMA), Butte (BUT), Calaveras (CAL), Colusa (COL), El Dorado (ELD), Fresno (FRE), Inyo (INY), Lassen (LAS), Los Angeles (LAX), Modoc (MOD), Mono (MNO), Nevada (NEV), Placer (PLA), Plumas (PLU), San Bernardino (SBD), Shasta (SHA), Sierra (SIE), Siskiyou (SIS), Tehama (TEH), Trinity (TRI), Tulare (TUL), Tuolumne (TUO)

### **States**

Arizona (AZ), California (CA), Idaho (ID), Montana (MT), Nevada (NV), Oregon (OR), Utah (UT), Washington (WA), Wyoming (WY)

## **Quads**

Ash Creek Butte (4112241), Bear River Reservoir (3812052), Big Bear Lake (3411628), Blairsden (3912075), Blanco Mtn. (3711842), Bloody Mtn. (3711858), Boards Crossing (3812032), Butte Meadows (4012115), Calaveras Dome (3812042), Caldor (3812054), Casa Vieja Meadows (3611823), Cherry Lake North (3811918), Chicken Hawk Hill (4112214), Cisco Grove (3912035), Convict Lake (3711857), Covington Mill (4012287), Coyote Flat (3711824), Crocker Mtn. (3912084), Crooked Creek (3711841), Crystal Lake (3411737), Dardanelles Cone (3811947), Davis Creek (4112063), Dogtooth Peak (3711921), Eagle Peak (4112032), Emerald Bay (3812081), English Mtn. (3912045), Forest Falls (3411618), Fouts Springs (3912236), Gallatin Peak (4012056), Grays Peak (4012146), Hatchet Mtn. Pass (4012177), Hobart Mills (3912042), Homewood (3912012), Hull Creek (3812011), Humboldt Peak (4012124), Humbug Valley (4012123), Independence Lake (3912043), Jacks Backbone (4012166), Jonesville (4012114), Kaiser Peak (3711932), Kimschew Point (3912184), Kyburz (3812073), Lassen Peak (4012145), Leek Spring Hill (3812063), Loon Lake (3812083), Meeks Bay (3912011), Miller Mtn. (4012167), Mineral (4012135), Monache Mountain (3611822), Moonridge (3411627), Mount Dana (3711982), Mount San Antonio (3411736), Mt. Barcroft (3711852), Mt. Bidwell (4112082), Mt. Fillmore (3912067), Mt. Harkness (4012143), Mt. Morgan (3711846), Mt. Patterson (3811943), Mumbo Basin (4112225), Norden (3912033), Onyx Peak (3411626), Peddler Hill (3812053), Pegleg Mtn. (4012048), Red Cinder (4012142), Robbs Peak (3812084), Rockbound Valley (3812082), Roop Mountain (4012047), San Geronio Mtn. (3411617), Sattley (3912054), Seven Lakes Basin (4112224), Shields Creek (4112043), Skunk Ridge (4112117), Soapstone Hill (3912173), Soup Creek (4112033), South Lake Tahoe (3811988), Station Peak (3711851), Susanville (4012046), Sweetwater Creek (3811942), Tahoe City (3912022), Telegraph Peak (3411735), Templeton Mtn. (3611832), Tioga Pass (3711983), Tragedy Spring (3812062), Viola (4012156), Warren Peak (4112042), West Haight Mtn. (4112251), Westwood East (4012038), Westwood West (4012131), Willow Ranch (4112083)

## **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**

Scattered but not common anywhere in CA. On watch list in NV, candidate for state listing in OR, and state-listed as Sensitive in WA. Threatened by foot traffic, grazing, trampling, recreational activities, fuel reduction projects, road deconstruction, and vehicles. Possibly threatened by logging and hydrological alterations. See *American Fern Journal* 71(1):21 (1981) for original description, and *Madroño* 36(2):131-136 (1989) for distributional information.

## **Threats**

Threatened by foot traffic, grazing, trampling, recreational activities, fuel reduction projects, and road deconstruction. Possibly threatened by logging and hydrological alterations.

## **Taxonomy**

Threatened by foot traffic, grazing, trampling, recreational activities, fuel reduction projects, and road deconstruction. Possibly threatened by logging and hydrological alterations.

## **Selected References**

**Species Account:** *Botrychium crenulatum* account for potential Species of Conservation Concern evaluation (2021)

### **Suggested Citation**

California Native Plant Society, Rare Plant Program. 2024. Rare Plant Inventory (online edition, v9.5). Website <https://www.rareplants.cnps.org> [accessed 17 May 2024].