SPECIES: Scientific [common]	*Botrychium minganense* [Mingan moonwort]
Forest:	Bridger-Teton National Forest
Forest Reviewer:	**Rose Lehman**
Date of Review:	**3/29/2021**
Forest concurrence (or recommendation if new) for inclusion of species on list of potential SCC: (Enter Yes or No)	**No**

FOREST REVIEW RESULTS:

1. The Forest concurs or recommends the species for inclusion on the list of potential SCC:
   Yes___ No__X_

2. Rationale for not concurring is based on (check all that apply):
   Species is not native to the plan area _____
   Species is not known to occur in the plan area _____
   Species persistence in the plan area is not of substantial concern ___X____

Species is ranked G5/S3 and does not have sensitive or other status of conservation concern on adjacent units. Assessment not needed or required based on R4 guidelines and BASI. One of the most widespread in distribution of the various moonworts.

FOREST REVIEW INFORMATION:

1. Is the Species Native to the Plan Area? Yes_X__ No___

   If no, provide explanation and stop assessment.

2. Is the Species Known to Occur within the Planning Area? Yes___ No___

   If no, stop assessment.

Table 1. All Known Occurrences, Years, and Frequency within the Planning Area

Year Observed	Number of Individuals	Location of Observations (USFS District, Town, River, Road Intersection, HUC etc.)	Habitat Description	Source of Information[1]

[1]The Consortium of Pacific Northwest Herbaria (Consortium of Pacific Northwest Herbaria 2019) and the SEINet data portal (SEINet 2019) were also searched, and no additional occurrences on the Bridger-Teton National Forest were found.

a. Are all Species Occurrences Only Accidental or Transient?

Yes___ No___

If yes, document source for determination and stop assessment.

b. For species with known occurrences on the Forest since 1990, based on the number of observations and/or year of last observation, can the species be presumed to be established or becoming established in the plan area?

Yes___ No__

If no, provide explanation and stop assessment

c. For species with known occurrences on the Forest predating 1990, does the weight of evidence suggest the species still occurs in the plan area?

Yes___ No___

Provide explanation for determination

If determination is no, stop assessment

3. Is There Substantial Concern for the Species' Capability to persist Over the Long-term in the Plan Area Based on Best Available Scientific Information?

Table 2. Status summary based on existing conservation assessments

Entity	Status/Rank (include definition)
NatureServe Global Status	**G5**
NatureServe State Status	**S3**
WYNDD	**Plant Species of Potential Concern** **G5/S3** (Wyoming Natural Diversity Database – Plant Species of Concern) (rl: checked 3/29/2021)
USDA Forest Service	USFS: Species of Local Concern in: BgHrnNF
USDOI FWS	Not listed
USDOI BLM	Not listed
IUCN	Not listed

Sources: WYNDD 2021; Heidel 2018; USDA Forest Service Regions 2 and 4 Sensitive Species Lists; NatureServe 2019

Table 3. Status summary based on best available scientific information.

Criteria	**Rationale**
Distribution on the Bridger-Teton National Forest	
Distribution outside the Bridger-Teton National Forest	Widespread/Edge; peripheral; Occurs in Alaska and Northwest Territories, across Canada, throughout western states, and eastward in states from North Dakota to Maine, one of the most widespread moonworts in North America. In Wyoming, known from the Absaroka, Big Horn and Teton Ranges, the Black Hills, the Ferris Mountains and possibly Sierra Madre Ranges (Big Horn, Carbon, Crook, Fremont, Johnson, Park, Sheridan, Sublette, Teton and Washakie Carbon counties).
Abundance on the Bridger-Teton National Forest	
Population Trend on the Bridger-Teton National Forest	
Habitat Trend on the Bridger-Teton National Forest	Widespread in the mountains, from dense forest to open meadows (Farrar 2011, Farrar and Popovich 2012). Wyoming populations are in moist meadows, Picea engelmannii forest, below shaded cliffs and in riparian vegetation.
Life history and demographic characteristics of the species	
Date: March 29,2021 Reviewer: R.Lehman	

Summary and Recommendations

References

Wyoming Natural Diversity Database, University of Wyoming. Botrychium minganense - Mingan moonwort. Wyoming Field Guide. Retrieved on 3/29/2021, from http://fieldguide.wyndd.org/?species=botrychium%20minganense