Dalea enneandra (Nine-anther prairie clover)
Conservation Status Rank Summary

Date Published: September 3, 2026

For details on assessment and ranking methodology, see: *Conservation Status Assessment Definitions, Process, Rank Factors, and Calculation of State Ranks for Montana Species*

Rarity and Trends

Rank Factor	Date Assessed	Value Factor Rating	Score	Data Source	Comments
Rarity					
Range Extent	2026-02-09	46685.3 km² EF = 5000-200,000 km²	[3.140, 3.930]	MTNHP Range Maps	The 2026 MTNHP range map somewhat over-estimates the species actual range which is based on documented observations. However, both estimates fall within the same categorical option for assessing Range Extent. A few of the more current observations need to be verified.
Area of Occupancy	2026-02-09	[4, 9] | 4km² cells CD = 3-25 4-km² grid cells	[1.380, 2.060]	MTNHP Databases	Of the 96,004 2km x 2km grid cells that cover Montana, known, verified observations of the species occupy 4 grid cells. An additional 5 grid cells are occupied by unverified observations.
Number of Occurrences	2026-02-09	[4, 9] AB = 1 - 20	[0.000, 1.380]	MTNHP Databases	The verifiable observations group into 4 occurrences. An additional 5 observations have been recently reported but the identification of these should be verified.
Population Size	2026-02-09	* U = Unknown	-	MTNHP Databases	**Factor not used in ranking.** Good population estimates are lacking for most occurrences, as a result, the total statewide population is unknown though it appears likely to be relatively small and perhaps numbering a few thousand.
# of Occurrences in Good Condition	2026-02-09	* U = Unknown	-	MTNHP Databases	**Factor not used in ranking.** It is unclear based on the available data how many occurrences may be in good condition or have good viability.
% of Area Occupied in Good Condition			-		**Factor not used in ranking.**
Environmental Specificity	2025-03-01	Narrow B = Narrow; specialist or community with key requirements common	-	Expert Opinion	**Factor not used in ranking.** Assessed by Scott Mincemoyer
Rarity is calculated by averaging weighted factor scores: **(([3.14, 3.93] × 1) + ([1.38, 2.06] × 2) + ([0.00, 1.38] × 1)) / 4 = [1.48, 2.36]**					
Trends					
Short-term Trend	2026-02-09	* U = Unknown	-		**Factor not used in ranking.** Short-term trends are unknown, though there is no indication that the species has experienced significant declines in Montana.
Long-term Trend	2026-02-09	*	-		**Factor not used in ranking.** Long-term trends are unknown, though there is no indication that the

		U = Unknown			species has experienced significant declines in Montana.
No trend data used in this rank					

*Values may be absent if not precisely estimated; factors may still be assessed for rank if a Factor Rating can be assigned.

Threats

Rank Factor	Date Assessed	Value Factor Rating	Score	Data Source	Comments
Threats					
Overall Threat Impact		Medium - Low CD = Medium - Low	[3.670, 5.500]		Significant or potentially significant threats to the species or particular occurrences are not known.
Intrinsic Vulnerability	2025-03-01	Not intrinsically vulnerable C = Not intrinsically vulnerable	-	Expert Opinion	**Factor not used in ranking.** Assessed by Scott Mincemoyer
Threat score is calculated from Overall Threat Impact when available or Intrinsic Vulnerability if not: **([3.67, 5.50]) = [3.67, 5.50]**					

Individual Threats Data

Threat Category	Date Assessed	Impact Score	Scope	Severity	Immediacy	Comments
No individual threats data used in this rank						

Conservation Status Rank Calculation

Raw score

Rarity: ([1.48, 2.36] × 70%) + Threats: ([3.67, 5.50] × 30%) + Trends: (0.00) = [2.13, 3.30]

Calculated Rank: S2S3

Accepted Rank	S2S3
Author(s)	Andrea Pipp
Rank Approved By	Andrea Pipp
State Rank Reason	*Dalea enneadra* is rare in Montana where it is known from a few sites in the southeastern portion of the state. Population count and extent data is poorly documented, and trends are unknown. The identification of many observations made since 2017 need verification. Potential threats are largely unknown. As a result, the species' conservation status rank is imprecisely known, though its rarity makes it at least vulnerable to extirpation in the state. Revisits to known occurrences, at specified intervals, is greatly needed to collect data on population parameters, habitat conditions, and potential threats - and to assign an accurate and timely species' conservation status rank. Monitoring at a subset of occurrences is necessary to track population trends. Additional surveys into areas of potentially suitable habitat is also needed.

Supplementary Information

Montana Natural Heritage Program. 2021. Conservation Status Assessment Definitions, Process, Rank Factors, and Calculation of State Ranks for Montana Species. 18 p.
https://mtnhp.mt.gov/docs/Montana_State_Rank_Criteria_20211201.pdf

Montana Field Guide Species Account:
https://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDFAB1A0D0

Predicted Suitable Habitat Model:
https://mtnhp.mt.gov/resources/models/?elcode=PDFAB1A0D0

Information Needs

Information needs are assessed by considering the availability of factors used to assess species status as well as the quality of these assessments. Current information availability and quality to inform Conservation Status Rank for this species are highlighted.

Rank Factor	Assessment Category	Value	Criteria
General Status	Status Quality	Adequate	Calculated rank has low uncertainty and is represented by a single rank (e.g. S3); accepted rank may be adjusted to a range rank (e.g. S2S3)
		Poor	Rank assessed as SU or calculated rank has notable uncertainty and corresponds to a range rank with 2 or more values (e.g. S2?, S1S3, or S4S5)
Rarity	Range Quality	Adequate	Range polygon adequately represents area of probable occupancy and does not include substantial unoccupied areas; range may be adequately defined and still include areas of unsuitable habitat (e.g. mountain ranges for plains species)
		Marginal	Range polygon defined, but may include or exclude notable areas where the species may or may not occur on the landscape
		Poor	Range polygon not defined
	Habitat Quality	Adequate	Species-habitat relationship is well-defined (e.g. relevant literature or robust habitat model available)
		Marginal	Understanding of species-habitat relationship is adequate among some but not all habitats (e.g. literature covers similar habitats outside of Montana or habitat model performance is only somewhat adequate)
		Poor	Species-habitat relationship is not well understood
Threats	Threat Quality	Adequate	Threat Impact is a single value (including "Unthreatened")
		Marginal	Threat Impact assessed at more than one value (e.g. "High - Medium")
		Poor	Threat Impact is Unknown but Intrinsic Vulnerability is assessed
		Unknown	Threat Impact is Unknown and Intrinsic Vulnerability is not assessed
Trends	Recency	Current	Short-term Trend assessment date less than 10 years old
		Out of Date but Adequate	Short-term Trend assessment date is more than 10 years old or Unknown, but species is Unthreatened
		Out of Date	Short-term Trend assessment date more than 10 years old
		Not Available	Short-term Trend data are not available
	Trend Quality	Sufficient	Short-term Trend assessed at a single value or multiple values with a minimum trend greater than -10% (stable or increasing)
		Unknown but Sufficient	Short-term Trend is Unknown, but species is Unthreatened
		Poor	Short-term Trend is less than -10% (in decline) with two or more values selected
		Unknown	Short-term Trend is Unknown

Summary of Information Availability

Summary of Information Needs

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Additional Threat Details

The table below contains the complete threats assessment for this species. While the Conservation Status Rank Calculation is based on cumulative, broadly categorized (Level 1) threats data, threats are assessed and tracked for more specifically categorized (Level 2) threats when available.

Threat Category	Date Assessed	Assessed By	Data Source	Scope	Severity	Imme-diacy	Comments
No threats data available for this species							