

# Western Spotted Skunk (*Spilogale gracilis*)

## Conservation Status Rank Summary

September 25, 2024

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	Score	Data Source	Comments
<b>Rarity</b>					
Range Extent	2025-11-12		-	Expert Opinion	Factor not used in ranking. Although a rank polygon is delineated for this species. Observations are dispersed and infrequent and do a poor job of validating this range
Area of Occupancy			-		Factor not used in ranking.
Number of Occurrences			-		Factor not used in ranking.
Population Size			-		Factor not used in ranking.
# of Occurrences in Good Condition			-		Factor not used in ranking.
% of Area Occupied in Good Condition			-		Factor not used in ranking.
Environmental Specificity	2024-09-25	Unknown	-	Expert Opinion	Factor not used in ranking. Species is infrequently detected and assessing habitat associations in Montana is problematic
Rarity is calculated by averaging weighted factor scores: <b>None</b>					
<b>Trends</b>					
Short-term Trend	2012-01-04		-	MTNHP Species Rank Data Table	Factor not used in ranking. No data on trends available.   Methodology: NS (2003)   Original Score: U
Long-term Trend	2025-02-03		-	Expert Opinion	Factor not used in ranking. Riparian areas, rock outcrops and other habitats the species uses have probably been stable. However there is much Uncertainty in this assessment.
No trend data used in this rank <b>None</b>					

## Threats

Rank Factor	Date Assessed	Value	Score	Data Source	Comments
<b>Threats</b>					
Overall Threat Impact		Unknown	-		Factor not used in ranking.
Intrinsic Vulnerability	2025-02-03	Unknown	-	MTNHP Expert Opinion	Factor not used in ranking. Species is poorly described in the state and it's vulnerability is unknown.
No threat or vulnerability data used in this rank <b>None</b>					

### 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

Not enough rank factors to rank

Calculated Rank: SU

<b>Accepted Rank</b>	SU
<b>Date Approved</b>	2024-09-30
<b>Approval Authority</b>	Montana Species of Concern Committee
<b>Rank Justification</b>	Species is rare and difficult to detect. It has been observed 17 times in the state and only twice in the last decade. Range is uncertain, trends and threats are poorly characterized

## 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](https://mtnhp.mt.gov/docs/Montana_State_Rank_Criteria_20211201.pdf)

Montana Field Guide Species Account:

<https://fieldguide.mt.gov/speciesDetail.aspx?elcode=AMAJF05020>

Predicted Suitable Habitat Model:

<https://mtnhp.mt.gov/resources/models/?elcode=AMAJF05020>

## 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

Species is known from sparse incidental records across southern Montana. Range may be larger than currently assessed. Trend and threats are unknown.

### Summary of Information Needs

Baseline surveys to determine species distribution and establish monitoring will provide data to assess range, threats, and trend.

## 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	Immediacy	Comments
No Threat Identified - 0.5 - Unknown/Undetermined Threat	2024-09-25	None	None	None	None	None	None
No threats data available for this species							