Solitary Sandpiper (*Tringa solitaria*)
Conservation Status Rank Summary

March 19, 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	Score	Data Source	Comments
Rarity					
Range Extent	2024-05-13	S: 4527.3 km²	2.360	MTNHP Range Maps	None
Area of Occupancy	2024-05-13		2.060		None
Number of Occurrences	2024-05-13	8	1.380		MTNHP Data
Population Size			-		Factor not used in ranking.
# of Occurrences in Good Condition	2024-05-13		2.200		None
% of Area Occupied in Good Condition			-		Factor not used in ranking.
Environmental Specificity			-		Factor not used in ranking.
Rarity is calculated by averaging weighted factor scores: **((2.36 × 1) + (2.06 × 2) + (1.38 × 1) + (2.20 × 2)) / 6 = 2.04**					
Trends					
Short-term Trend	2024-05-13		-		Factor not used in ranking.
Long-term Trend	2024-05-13		-		Factor not used in ranking.
No trend data used in this rank					

Threats

Rank Factor	Date Assessed	Value	Score	Data Source	Comments
Threats					
Overall Threat Impact		Unknown	-		Factor not used in ranking.
Intrinsic Vulnerability	2024-09-23	Moderately vulnerable	2.750		None
Threat score is calculated from Overall Threat Impact when available or Intrinsic Vulnerability if not: **(2.75) = 2.75**					

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: (2.04 × 70%) + Threats: (2.75 × 30%) + Trends: (0.00) = 2.26

Calculated Rank: S2

Accepted Rank	S2B
Date Approved	2024-09-30
Approval Authority	Montana Species of Concern Committee
Rank Justification	Species has a very limited breeding range within northwestern Montana. Threats to persistence are poorly understood, but changing climate may reduce or eliminate breeding and wintering habitat in the US outside of Alaska.

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=ABNNF01070

Predicted Suitable Habitat Model:
https://mtnhp.mt.gov/resources/models/?elcode=ABNNF01070

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 described in the vicinity of Glacier National Park, but significant areas of potential breeding habitat exists in the northern Bob Marshall Wilderness complex and adjacent areas that have not been surveyed. Both threats and trends are not described.

Summary of Information Needs

Comprehensive baseline surveys of suitable habitat are necessary to establish future trend monitoring. Once these data are collected, it may allow better inference into threats to the species in Montana.

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 Threat Identified - 0.5 - Unknown/Undetermined Threat	2024-05-13	None	None	None	None	None	None
Climate Change & Severe Weather - 11.1 - Habitat Shifting & Alteration	2026-03-19	Dan Bachen	SWAP Assessment	Pervasive	Moderate	Moderate	Reduction in breeding habitat through drought. Shift in breeding or winter range. The species is projected to shift mostly out of the conterminous 48 states, for which threats data are available.
No threats data available for this species							