Senecio integerrimus var. scribneri (Scribner's Ragwort)
Conservation Status Rank Summary

Date Published: August 14, 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	2025-12-23	195694.0 km² F = 20,000-200,000 km²	3.930	MTNHP Range Maps	The 2026 MTNHP range map may slightly over-estimate the species actual range which is based on documented occurrences. Regardless, both estimates fall within the same categorical option for assessing Range Extent.
Area of Occupancy	2025-12-23	* D = 6-25 4-km² grid cells	2.060	MTNHP Databases, CPNWH Data, iNaturalist	Of the approximate 96,004 2km x 2km grid cells that cover Montana, about 20 cells contain observations of the species.
Number of Occurrences	2025-12-23	* BC = 6 - 80	[1.380, 2.750]	MTNHP Databases, CPNWH Data, iNaturalist	Approximately 20 occurrences based on observations over the last several decades.
Population Size	2025-12-23	* U = Unknown	-	MTNHP Databases, CPNWH Data, iNaturalist	**Factor not used in ranking.** No collections or observations have population data.
# of Occurrences in Good Condition	2025-12-23	* U = Unknown	-		**Factor not used in ranking.** The number of occurrences with good or excellent viability is unknown.
% of Area Occupied in Good Condition			-		**Factor not used in ranking.**
Environmental Specificity	2025-03-01	Moderate C = Moderate; generalist or community with some key requirements scarce	-	Expert Opinion	**Factor not used in ranking.** Assessed by Scott Mincemoyer
Rarity is calculated by averaging weighted factor scores: **((3.93 × 1) + (2.06 × 2) + ([1.38, 2.75] × 1)) / 4 = [2.36, 2.70]**					
Trends					
Short-term Trend	2025-12-23	* U = Unknown	-	Expert Opinion	**Factor not used in ranking.** Short term trends are unknown. In the recent past, trends may have been relatvely stable though some habitat

					may have been lost or degraded especially from agriculture and livestock grazing.
Long-term Trend	2025-12-23	* U = Unknown	-	Expert Opinion	**Factor not used in ranking.** Long term trends are unknown though some habitat has likely been lost or degraded especially from agriculture and livestock grazing.
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		High - Medium / BC = High - Medium	[1.830, 3.670]		Significant or potential threats have not been documented at the known occurrences. However, the populations occur in areas that may be impacted by agriculture, livestock grazing, invasive species and climate change. As a result, potential threats to the species appear to exist in the state.
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: **([1.83, 3.67]) = [1.83, 3.67]**					

Individual Threats Data

Threat Category	Date Assessed	Impact Score	Scope	Severity	Immediacy	Comments
No Threat Identified	None	Low	None	None	None	
Agriculture & Aquaculture	None	High - Medium	Large-Restricted	Extreme	High	Multiple Level 2 threats - see Additional Threat Details below.
Threat Tally: 0 - Very High, [0,1] - High, [0,1] - Medium, 1 - Low Overall Threat Impact* = High - Medium						

*See Conservation Status Assessment Definitions, Process, Rank Factors, and Calculation of State Ranks for Montana Species for calculation of Overall Threat Impact based on the number and impact of individual threats.

Conservation Status Rank Calculation

Raw score

Rarity: ([2.36, 2.70] × 70%) + Threats: ([1.83, 3.67] × 30%) + Trends: (0.00) = [2.20, 2.99]

Calculated Rank: S2S3

Accepted Rank	S2S3
Author(s)	Scott Mincemoyer
Rank Approved By	Andrea Pipp
State Rank Reason	*Senecio integerrimus* variety *scribneri* is endemic to Montana where populations are rare to uncommon in the central and eastern portions of the state. Plants are found in grassland and sage steppe habitats, often where land is used for agriculture and ranching. Observation data reported from 2000 to 2024 predominantly comes from 2 counties (Phillips and Valley). Whereas, data reported for 14 other counties is very old, 1979 to 1883. Thus, the statewide status of *Senecio integerrimus* var. *scribneri* populations and habitat conditions is largely unknown. Surveys and monitoring that bring forth current information on presence/absence, population counts and viability, habitat conditions, and potential threats is greatly needed. Surveys on lands modelled as predicted suitable habitat are also greatly needed to better understand its distribution in Montana.

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=PDAST8H1S8

Predicted Suitable Habitat Model:
https://mtnhp.mt.gov/resources/models/?elcode=PDAST8H1S8

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

Surveys and monitoring that bring forth current information on presence/absence, population counts and viability, habitat conditions, and potential threats is greatly needed. Surveys on lands modelled as predicted suitable habitat are also greatly needed to obtain information on the species presence and distribution 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	None	None	None	None	None	None	
Agriculture & Aquaculture - 2.1 - Annual & Perennial Non-Timber Crops	2025-12-23	S. Mincemoyer	Expert Opinion	Small	Extreme	Moderat e-Low	Conversion of some habitat to cropland is possible though likely very small in scope.
Agriculture & Aquaculture - 2.3 - Livestock Farming & Ranching	2025-12-23	S. Mincemoyer	Expert Opinion	Large-Restricted	Moderate-Slight	High	Livestock grazing at some sites may degrade habitat and negatively impact the population.
Invasive & Other Problematic Species, Genes & Diseases - 8.1 - Invasive Non-Native/Alien Species/Diseases	2025-12-23	S. Mincemoyer	Expert Opinion	Large-Small	Slight	Unknow n	Invasive species including non-native grasses may be or become a problem at some sites.
Climate Change & Severe Weather - 11	2025-12-23	S. Mincemoyer	Expert Opinion	Pervasive	Moderate-Slight	Unknow n	Climate change including increased temperatures and increases in the frequency and severity of droughts may negatively impact the populations.