

Species Status Assessment

Common Name northern wild comfrey **Date Updated:** 2024-03-13
Scientific Name *Andersonglossum boreale* **Updated By:** Richard M. Ring
Family Boraginaceae

Species Synopsis (*a short paragraph which describes species taxonomy, distribution, recent trends, and habitat in New York*):

Northern wild comfrey (*Andersonglossum boreale*) is a perennial herb species in the Borage family. It is one of only two species of *Andersonglossum* found in New York; the two were formerly classified as varieties of the same species, but are now regarded as distinct (Werier *et al.* 2024). NY is near the southern limit of the northern wild comfrey's range; it was known historically from New Jersey, Pennsylvania, and Ohio, but is no longer (Natureserve 2024). Within NY, northern wild comfrey was formerly known from much of the state, but is now apparently restricted to northern NY (NYNHP 2023). There are only four known extant populations in NY, one of them, on an island in Lake Champlain, with over 100 plants, and the others much smaller. Throughout its range, northern wild comfrey is known from openings, edges, canopy gaps, or other small disturbances in upland forests, located on somewhat rich (circumneutral or calcareous) soils (Abrams and Brumbach 2000, NYNHP 2024). In terms of distribution throughout the state, as well as number of populations, northern wild comfrey has been trending downward in NY. A lack of fire or other disturbance to forest to create habitat may be a threat to the species. Additional surveys are needed to determine if northern wild comfrey could be found at historically known locations in the Catskills and elsewhere which have never been surveyed (NYNHP 2023).

I. Status

a. Current legal protected Status

i. Federal: **Candidate:**
ii. New York: Endangered

b. Natural Heritage Program

i. Global: G5T4T5
ii. New York: S1S2 **Tracked by NYNHP?** On Active Tracking List

Other Ranks:

COSEWIC: Not listed in Canada
IUCN Red List: Not assessed by IUCN Red List

Status Discussion:

Andersonglossum boreale is Endangered in New York (Ring 2023). There are only four known populations in NY today, although there are more than two dozen historical collection sites from the state in the past. The overall population size is between 100 and 300 plants, with all but one known population small. The range appears to have contracted from its historical extent. There are historical collections from western and central NY as well as the Catskills, but extant populations are currently known only from northern NY. Additional searching is needed in the Catskills and elsewhere in its former range in the state.

II. Abundance and Distribution

Region	Present?	Abundance	Distribution	Time Frame	Listing status or S-Rank	SGCN?
North America	Yes	Unknown	Unknown	Unknown		
Northeastern US	Yes	Unknown	Unknown	Unknown		
New York	Yes	Unknown	Unknown	Unknown	E	
Connecticut	Yes	Unknown	Unknown	Unknown	SNR	
Massachusetts	Yes	Unknown	Unknown	Unknown	S1	
New Jersey	Yes	Unknown	Unknown	Unknown	SH	
Pennsylvania	Yes	Unknown	Unknown	Unknown	SH	
Vermont	Yes	Unknown	Unknown	Unknown	S1	
Ontario	Yes	Unknown	Unknown	Unknown	S4	
Quebec	No	-	-	-		

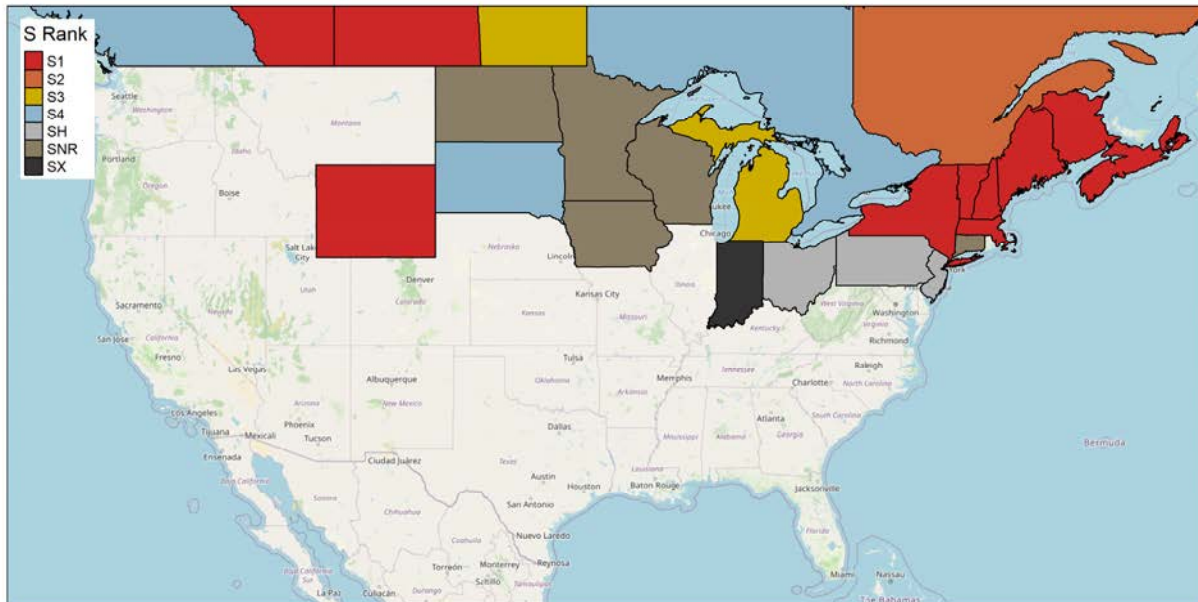


Figure 11: *Andersonglossum boreale* North American distribution.

Percent of North American Range in NY	Classification of NY Range	Distance to core population, if not in NY
1-25%	Peripheral	≥1000km

III. NY Rarity and Trends

Trends Discussion

In the early 1900s, there were at least two dozen populations of this plant scattered around the state. Based on museum collections, that number of populations was apparently stable through the 1950s. Today, there are only four known populations, and all of these are in the northern portion of the state. None of the historical populations present south of the Adirondack region are known today, indicating a dramatic decline in the last 100 years or so (NYNHP 2023, 2024).

Details of Historic and Current Occurrence

Historically, this plant was found throughout New York. Today, it appears to be restricted to the northern portions of the state. New York is near the southern edge of the range, and this range may be retracting northward. There are an estimated 100 to 300 plants, most known from a single population. Two of the known populations have been surveyed since 2019, and the other two have not been visited since 2010 or before.

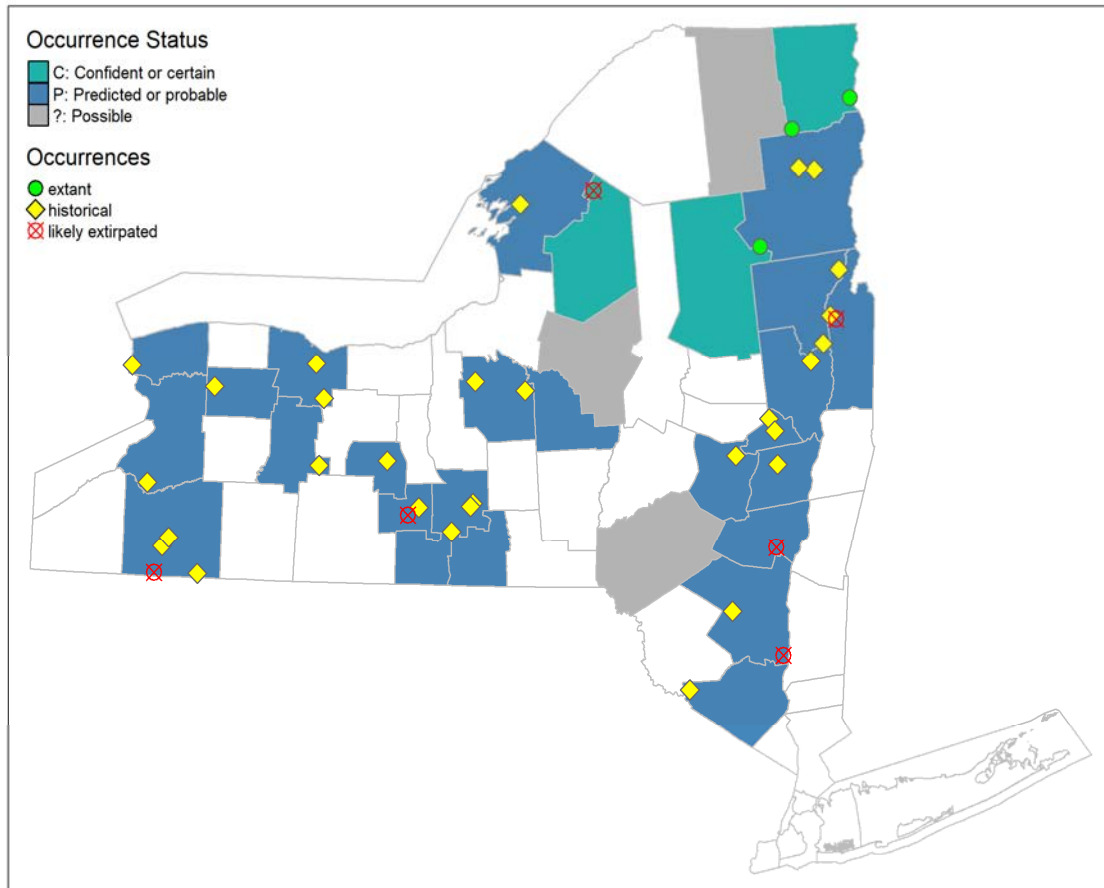


Figure 2 2: NYS distribution for *Andersonglossum boreale*. The fourth population, found in 2023, is not shown on this map.

Table 1. Number of records (element occurrences) of *Andersonglossum boreale* grouped by the dates known to be extant (the years spanning first observation to last observation) and the number and percent of total of USGS 7.5 minute map quadrangles these observations fall within for New York State.

Years	# of Records	# of distinct quads	% of quads in State
Pre-1995	37	68	6.9
1995-2004	1	2	0.2
2005-2014	2	3	0.3
2015-2023	2	3	0.3

Monitoring in New York

No regular monitoring program is in place for any of the extant populations, although three of them are on public NY State DEC lands.

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