

Boulder Beach Tiger Beetle

Cicindela ancocisconensis

Status

Federal status: G3 N3, Not listed

NH state status: S1S3, Not listed

ME state status: S?, Not listed

One source apparently believes it is declining over much of its range. Otherwise, there is no information to indicate possible trends. Due to the lack of local experts, a panel was not held on this species, so viability outcomes were not identified.

Distribution

This species ranges from Maine and southeastern Quebec, west to Indiana, and south to Georgia.

Cicindela ancocisconensis is thought to be relatively uncommon in New Hampshire, but locally common along the Saco River near Conway, which is where all extant documented occurrences have been. All known extant occurrences are near the WMNF. This probably reflects where surveys have been conducted, not the range of the species. Two historic occurrences are documented on the WMNF, in Martins Location on the Peabody River and in Pinkham's Grant on the Glen Ellis River. In Maine, it is only documented from Franklin County, far away from the WMNF. The White Mountains appear to be at the northeastern limits of the range of this species.

Habitat

Adults and larvae are found along the margins of clear, clean permanent streams of mid-sized rivers with some degree of shading. The adults prefer sandy areas near the water, sometimes intermixed with cobbles, but always lacking vegetation. Larvae are found mostly in sandy-loam soil that is often some distance from the water's edge.

Limiting Factors

Threats facing this species are unknown. *Cicindela ancocisconensis* is known from very few locations, despite additional surveys in appropriate habitat. It is not known why more have not been located, so there are likely unknown factors limiting the species.

Viability concern

It is not known why so few have been located, so it may be of concern. G3 and N3 rankings also indicate that it may be of concern as a species. It is known historically from the WMNF, and there is nothing to indicate whether those sites have been revisited, so it may still occur on the Forest. All recent NH locations have been from Conway area just off the Forest, where habitat is more abundant. WMNF habitat is naturally limited and the Forest is at the edge of the species' range, so it is probably not abundant if it still occurs on the WMNF. Kept on list based on likelihood that it still occurs on the Forest and G3 N3 rankings.

Management activities that might affect viability

Just what types of management activities would affect this species is unknown. However it is likely that anything that would change the disturbance regime or increase sedimentation in suitable habitat could reduce habitat suitability and impact individuals that were present. Dam construction downstream of a population could flood them out of their habitat. Dam construction upstream could modify the disturbance regime and result in additional vegetation or changes in water level that would make the habitat unsuitable. Removal of an existing beaver dam upstream could flood and scour habitat.

Road and trail construction, logging, and recreational use can all increase sediment levels if the activity is adjacent to or in direct line with the stream. It is unknown whether this would be detrimental to *Cicindela ancocisconensis*, but since this species prefers clear clean water, sedimentation could impact individuals and habitat suitability. Mitigation measures to reduce sediment reaching the stream near suitable habitat would reduce or prevent any potential impacts.

References

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