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## A Stonefly

### *Pictetiella expansa*

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Insecta — Plecoptera — Perlodidae

#### CONSERVATION STATUS / CLASSIFICATION

Rangewide: Vulnerable (G3)  
Statewide: Imperiled (S2)  
ESA: No status  
USFS: Region 1: No status; Region 4: No status  
BLM: No status  
IDFG: Not classified

#### BASIS FOR INCLUSION

No population trend data.

#### TAXONOMY

This species was originally described in the genus *Perla* and was later included in the genus *Isogenus* before being placed in the genus *Pictetiella* (Baumann et al. 1977).

#### DISTRIBUTION AND ABUNDANCE

This stonefly occurs in Colorado, Idaho, Montana, Utah, and Wyoming. In Idaho, the species is widespread in the Idaho panhandle but sparsely known from the remainder of the state. The distribution includes localities in Boundary, Bonner, Benewah, Shoshone, Clearwater, Bonneville, and Teton counties.

Baumann et al. (1977) considered this species to be uncommon, although nymphs can be locally abundant in some areas.

#### POPULATION TREND

No data are available to suggest population trend.

#### HABITAT AND ECOLOGY

Nymphs generally occur in small, fast-moving streams and require high water quality. Individuals have been encountered at elevations between 555-1255 m in north Idaho (Idaho Department of Environmental Quality Beneficial Use Reconnaissance Program Database). Adults emerge from July through October (Baumann et al. 1977) and there is often asynchronous emergence of males and females.

#### ISSUES

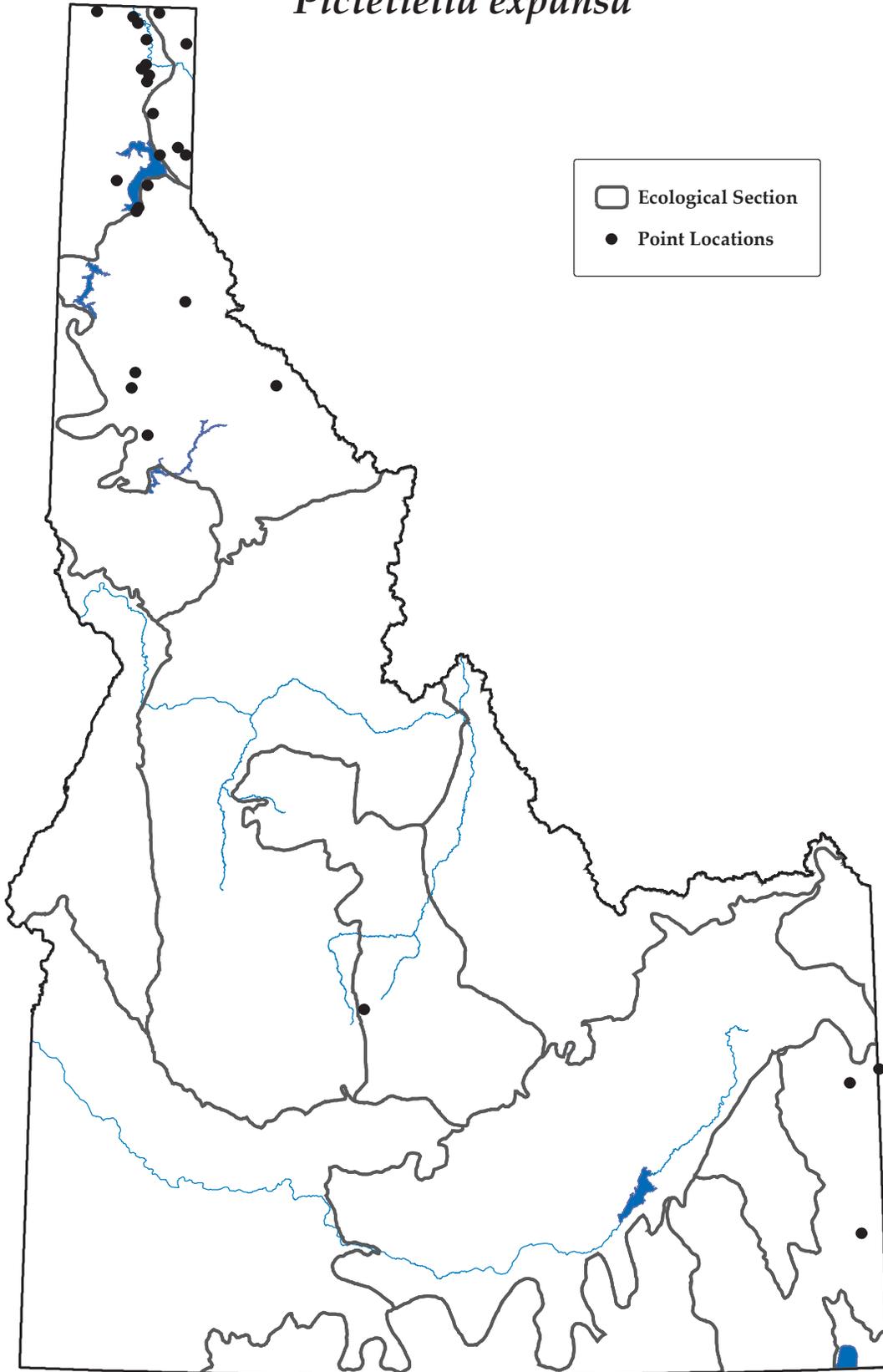
Specific threats to Idaho populations have not been identified. In general, stonefly populations are affected by changes to aquatic habitat, such as alteration of flow patterns, streambed substrate, thermal characteristics, and water quality. Alteration and degradation of aquatic habitat is the primary concern for Idaho populations.

**RECOMMENDED ACTIONS**

Surveys are needed to determine the current status of known populations and the distribution of populations in the state. Also needed are efforts to monitor population trend, as well as habitat conditions within the range of this species.

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Map created on December 6, 2005  
and prepared by Idaho Conservation Data Center.  
Sources: Point data are from Idaho Conservation Data Center,  
Idaho Department of Fish and Game (2005).

