SCIENTIFIC NAME:  *Lepidostoma ermanae*
COMMON NAME:  Cold Spring caddisfly
CLASS, FAMILY:  Insecta, Lepidostomatidae


RANKING/STATUS:  G1G2S1S2 (NatureServe-CNDDB).

GENERAL DESCRIPTION:  Weaver describes the larva: "...head and pronotum brown; pronotum in dorsal view with lateral margins curved and slightly broader than head; abdomen without gills." Adult females can be identified by the genitalic characters given in the original description. Adult males are brown and best identified by the wing venation and genitalic characters provided in the original description.

DIAGNOSTIC CHARACTERS:  Larvae of *L. ermanae* are the only lepistodostomatid larvae in California that lack gills. Characters of the genitalia (and wing venation, in males) serve to distinguish the adults.

OTHER ILLUSTRATIONS:  Merritt and Cummins (1996, fig. 18.103) illustrate the ventral apotome, a diagnostic generic character of the larval head.

DISTRIBUTION:  Locally distributed in the northern Sierra Nevada.

HABITAT:  The type locality habitat is a cold spring (3-4°C) at 6700' elevation, and is permanently shaded. Other collections have also been from very cold springs.

LIFE HISTORY/BEHAVIOR:  Little is known of the biology of this species. Adults emerge from mid-July to mid-August; third- and fourth- instar larvae have been collected in early October. Larvae are restricted to spring sources. The cylindrical larval case is made from stones, unlike those of most other lepidostomatid larvae, whose last-instar cases are four-sided and constructed from quadrate pieces of leaves.

SELECTED REFERENCES:

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