

# Life History Phenology and Sediment Size Association of the Dragonfly *Cordulegaster dorsalis* (Odonata: Cordulegastridae) in an Ephemeral Habitat in Southwestern British Columbia

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Marczak, Laurie B., John S. Richardson, and Marie-Claire Classen. 2006. Life history phenology and sediment size association of the dragonfly *Cordulegaster dorsalis* (Odonata: Cordulegastridae) in an ephemeral habitat in southwestern British Columbia. *Canadian Field Naturalist* 120(3): 347–350.

The life cycle of the dragonfly *Cordulegaster dorsalis* was studied over one year by systematic sampling of larvae in three intermittent headwater streams in southwestern British Columbia. We determined that larvae normally take three years to reach maturity, emerging throughout July and August. There is limited evidence suggesting a split cohort development, with early emergence after two years. Additionally, we tested whether larval instars were distributed randomly or if they occupied different sediment microhabitats. Smaller animals tend to be associated with smaller grained organic sediments, although there was high variation between the streams.

Key Words: Odonata, dragonfly, *Cordulegaster dorsalis*, ephemeral stream, life history, phenology, British Columbia.