

## Beneficial Species Profile



Photo credit: Russ Ottens, University of Georgia, Bugwood.org

**Common Name:** Snakefly

**Scientific Name:** *Agulla* spp.

**Order and Family:** Neuroptera: Raphidiidae

**Size and Appearance:** Fly like in appearance with an elongated neck. Legs arise at the back of the prothorax. Narrow, veiny wings are held roof-like over the body. Females are typically larger than males with a long, thread-like ovipositor.

	Length (mm)	Appearance
<b>Egg</b>		<b>Long and cylindrical with a small appendage on one end; laid in clusters typically on bark</b>
<b>Larva/Nymph</b>	<b>12-25mm</b>	<b>Black and larval beetle-like; mottled red or grey in color</b>
<b>Adult</b>	<b>12-25mm</b>	<b>Fly like in appearance with an elongated neck. Legs arise at the back of the prothorax. Narrow wings are held roof-like over the body. Females are typically larger than males with a long, thread-like ovipositor.</b>
<b>Pupa (if applicable)</b>		<b>Not enclosed inside a cocoon</b>

**Type of feeder (Chewing, sucking, etc.):** Larvae and adults both have chewing mouthparts.

**Host/s:** Sagebrush and denser, high elevation forests.

**Description of Benefits (predator, parasitoid, pollinator, etc.):** Predatory in both larval and adult life stages, although primarily in the larval stage, on smaller insects such as scales or aphids.

**References:**

Borror, D. J., & White, R. E. (1970). *A Field Guide to Insects of North America* (The Peterson Field Guide Series). New York, NY: Houghton Mifflin Company.

Cranshaw, W., & Kondratieff, B. C. (2006). *Guide to Colorado Insects*. Englewood, CO: Westcliffe.

Milne, L. J., & Milne, M. J. (1980). *The Audubon Society Field Guide to North American Insects and Spiders*. New York: Knopf.

Ridel, H. (1993) Snakeflies. Retrieved June 17, 2016 from <http://jenny.tfrec.wsu.edu/opm/displaySpecies.php?pn=680>.

Triplehorn, C. A., Johnson, N. F., & Borror, D. J. (2005). *Borror and DeLong's Introduction to the Study of Insects* (7th ed.). Belmont, CA: Thompson Brooks/Cole.

Williams, M. (2008, September/October). *Systematic Entomology Lecture*. Lecture presented at Auburn University, Auburn, AL.