

Terrestrial Invertebrates

Centipedes

Orders Geophilomorpha,
Lithobimorpha

ORDERS INCLUDE:

5 Native Families
10 Native Genera
12 Native Species
11 Endemic Species

GENERAL INFORMATION: Centipedes have elongated and segmented bodies. Worldwide, there are five divergent orders of centipedes; only two occur in Hawai'i (Geophilomorpha and Lithobimorpha). Species in the order Geophilomorpha hatch with the full complement of adult legs and segments (i.e., epimorphic growth), females care for eggs and young, and individuals move very slowly. In contrast, species in the order Lithobimorpha obtain additional segments and legs with each molt (i.e., anamorphic growth), females do not care for eggs or young, and individuals move very rapidly. Both orders are poorly understood in Hawai'i.

DISTRIBUTION: Centipedes are known from Kaua'i, O'ahu, Moloka'i, Maui, and the island of Hawai'i as well as the NWHI.

ABUNDANCE: Unknown. A lack of systematic surveys prevents any population estimate. However, the loss of native habitats likely means that species within the orders are declining.

LOCATION AND CONDITION OF KEY HABITAT: Unknown. However, centipedes occur in most Hawaiian habitats.

CONSERVATION ACTIONS: The goals of conservation actions are not only to protect current populations and key breeding habitats, but also to establish additional populations, thereby reducing the risk of extinction. In addition to common statewide and island conservation actions, specific management directed toward centipedes should include:

- Conduct surveys to determine the distribution and abundance of known centipedes and to document and identify new species.
- Preserve, maintain, and restore habitats supporting existing populations.

MONITORING:

- Continue monitoring the status of known populations.

RESEARCH PRIORITIES:

- Conduct studies to document the biology, habitat requirements, and life history of native species.

References:

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