

The Great Lakes Entomologist

Volume 11
Number 4 - Winter 1978 *Number 4 - Winter 1978*

Article 9

December 1978

Two Observations of Predation on Lepidoptera

Irwin Leeuw

Follow this and additional works at: <http://scholar.valpo.edu/tgle>

 Part of the [Entomology Commons](#)

Recommended Citation

Leeuw, Irwin (1978) "Two Observations of Predation on Lepidoptera," *The Great Lakes Entomologist*: Vol. 11 : No. 4 , Article 9.
Available at: <http://scholar.valpo.edu/tgle/vol11/iss4/9>

This Entomological Note is brought to you for free and open access by the Department of Biology at ValpoScholar. It has been accepted for inclusion in The Great Lakes Entomologist by an authorized administrator of ValpoScholar. For more information, please contact a ValpoScholar staff member at scholar@valpo.edu.

wide. This note describes two occurrences of collecting numerous specimens of *hexadactyla*.

On 21 and 23 July, 1976, *hexadactyla* was found in abundant numbers at Lost Lake in the Ledges State Park in Boone County, Iowa (a new county record). On the first date, *hexadactyla* was noted on the surface of moist soil adjacent to the water after a seine had been brought to shore. About 20 immature mole crickets were observed. The disruption of the upper surface soil near the water line by the seine apparently dislodged numerous specimens. Most were about 15 mm long and attempted to reburrow into the moist soil. On the second date, the soil near the shoreline was raked in a area of about 9 m long by 0.3 m wide to a depth of about 20 to 40 mm. More than 50 immature mole crickets were immediately detected. Mixed with the moist soil that had settled on the shoreline was decaying duckweed, *Lemna* sp., and watermeal, *Wolffia* sp.

The conditions observed at this collection site were likely typical of the general conditions required for successful development of northern mole crickets. The soil to about 1 m from the shoreline was moist but not saturated and wave action or moving water was not present. Decaying organic debris, particularly duckweed and watermeal, provided satisfactory material for some food, and soil texture was favorable for easy and rapid burrowing.

These observations may assist collectors in determining specific local collecting sites for *hexadactyla*.

LITERATURE CITED

- Blatchley, W. S. 1920. Orthoptera of northeastern America. Nature Publ. Co., Indianapolis.
- Cantrall, I. J. 1943. The ecology of the Orthoptera and Dermaptera of the George Reserve, Michigan. Univ. Mich. Misc. Publ. No. 54.
- ; 1968. An annotated list of the Dermaptera, Dictyoptera, Phasmatoptera, and Orthoptera of Michigan. Mich. Entomol. 1:299-346.
- Froeschner, R. C. 1954. The grasshoppers and other Orthoptera of Iowa. Iowa State Coll. J. of Sci. 29:326-327.

J. R. DeWitt
Department of Entomology
Iowa State University of Science and Technology
Ames, IA 50011

TWO OBSERVATIONS OF PREDATION ON LEPIDOPTERA

During the early afternoon of 25 August, 1977, a large European mantid, *Mantis religiosa* Linnaeus, was observed feeding on an adult male monarch butterfly, *Danaus p. plexippus* Linnaeus (Danaiidae) while clinging to the flower head of a blazing star plant (*Liatris* sp.) on a cactus prairie at the Allegan State Game Area, Allegan County, Michigan. The mantid had apparently seized its prey as it nectared on the flower, and had the monarch firmly clutched in its foreclaws and had nearly subdued it. The butterfly was the second victim of the mantid; a set of male monarch wings lay beneath the plant.

The following morning, a few miles away in prairie habitat, I noticed a small noctuid moth, *Agrotis ducens* Walker, in an unusual position on another blazing star plant. The moth, a fresh male, was in contact with a tiny ambush bug, *Phymata erosa* Linnaeus. The moth was already dead, and apparently was about to be eaten.

I wish to thank Mogens C. Nielsen for aid in identifying the predators and the noctuid moth. All specimens are deposited in the Michigan State University Department of Entomology collection.

Irwin Leeuw
1219 Crystal Lake Road
Cary, IL 60013