

October 1988

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### Recommended Citation

Dood, Steven B. and Kurta, Allen 1988. "Additional Records of Michigan Bat Ectoparasites," *The Great Lakes Entomologist*, vol 21 (3)

Available at: <https://scholar.valpo.edu/tgle/vol21/iss3/3>

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## ADDITIONAL RECORDS OF MICHIGAN BAT ECTOPARASITES

Steven B. Dood<sup>1</sup> and Allen Kurta<sup>2</sup>

### ABSTRACT

New Michigan county records for Ischnopsyllidae, Cimicidae, Spinturnicidae, Macro-nyssidae, and Trombiculidae from bats are given along with two new bat/parasite records for the United States.

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During June to early August of 1986 over 200 bats were mist-netted above streams in central Lower Michigan for a study of their natural history, distribution, and abundance. A portion were macroscopically examined for insect and acarine parasites [35 little brown bats, *Myotis lucifugus* LeConte; 24 big brown bats, *Eptesicus fuscus* Beauvois, 2 Keen's bat, *Myotis keenii* (Merriam); 2 hoary bats, *Lasiurus cinereus* (Beauvois); and 1 silver-haired bat, *Lasionycteris noctivagans* (LeConte)]. Any parasites discovered were mounted on microslides and identified using the keys listed in Dood and Kurta (1982). All ectoparasites collected were new county records. These are given by county along with two new host records for the United States and additional comments. Ectoparasite specimens are retained in the Special Collections of the Michigan State University Museum.

### ECTOPARASITES AND HOSTS

(I = number of infested hosts, P = number of parasites recovered, \* = new host record)

#### INSECTA:ISCHNOPSYLLIDAE

*Myodopsylla insignis* (Rothschild) ex *M. lucifugus* (19I/27P), Lake, Montcalm, Mecosta, Osceola, Roscommon, Clare, Ogemaw, Iosco.

#### INSECTA:CIMICIDAE

*Cimex adjunctus* Barber ex *M. lucifugus* (3I/3P), Iosco, Montcalm; ex *E. fuscus* (1I/1P), Muskegon.

#### ACARI:SPINTURNICIDAE

*Spinturnix americanus* (Banks) ex *M. lucifugus* (9I/16P), Manistee, Montcalm, Mecosta, Missaukee, Ogemaw, Osceola, Roscommon.

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*Spinturnix bakeri* Rudnick ex *E. fuscus* (2I/3P), Newaygo, Gratiot.

#### ACARI:MACRONYSSIDAE

*Macronyssus crosbyi* (Ewing and Stover) ex *M. lucifugus* (12I/37P), Roscommon, Clare, Iosco; ex *M. keenii* (2I/3P), Roscommon; ex *E. fuscus* (2I/2P), Roscommon. Lawrence et al. (1965) reported *Ichoronyssus britannicus* (Radford) (= *M. crosbyi*) as a new state record from *Myotis* sp. in Iron Co.

*Cryptonyssus flexus* Radovsky ex *M. lucifugus* (3I/6P), Lake, Clare, Iosco; ex \**L. noctivagans* (1I/3P), Ogemaw. This nidicolous parasite of the colonial little brown bat may have been acquired by the solitary host in a shared day or night roost.

*Steatonyssus occidentalis* (Ewing) ex *E. fuscus* (24I/117P), Newaygo, Montcalm, Roscommon, Osceola, Saginaw, Midland, Gratiot, Muskegon.

#### ACARI:TROMBICULIDAE

*Parasecia gurneyi* (Ewing) ex \**E. fuscus* (1I/2P), Midland. Wrenn (1974) found this species on garter snakes, *Thamnophis sirtalis* (Linnaeus), and a white-footed mouse, *Peromyscus leucopus* (Rafinesque), in areas near decaying logs and stumps in Cheboygan Co. Colonies of *E. fuscus* occasionally are found in hollow trees (Kurta 1980) and this chigger may have been acquired in such a site.

#### ACKNOWLEDGMENTS

Bats and ectoparasites were collected with the assistance of Theresa Hubbard. The authors would like to thank Dr. William Wrenn, University of North Dakota, for identifying the chiggers. This research was partially supported by a grant to A. Kurta from the Non-game Wildlife Research Fund of the Michigan Department of Natural Resources.

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