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SOME RECORDS OF ECTOPARASITIC ACARINA AND INSECTA FROM MAMMALS IN ONTARIO

In two communications previously published (Jour. Mammalogy, 31: 357-358, 1950; 34: 137-139, 1953) the writer reported upon collections of ectoparasitic ticks, mites and insects taken from mammals in southern Ontario. Since then a variety of specimens taken by several collectors from mammals in Ontario have been added to the collections of the University of Western Ontario. Most of the specimens have been mounted in Canada balsam on microscope slides, and in the following account the catalogue numbers of the slides are included. The name of the collector, where known, is also recorded. Each dated entry represents a collection from a single host. Identifications of the specimens were kindly made by the following taxonomists: G. F. Ferris, Natural History Museum, Stanford University, California (Anoplura), J. D. Gregson, Laboratory of Entomology, Department of Agriculture, Kamloops, B. C., (Ixodidae), G. P. Holland, Systematic Entomology, Department of Agriculture, Ottawa (Siphonaptera), H. H. J. Nesbitt, Department of Biology, Carleton College, Ottawa (Laelaptidae) and R. A. Ward, Department of Zoology, University of Chicago, Chicago, Illinois (Mallophaga).

ACARINA

LAELAPTIDAE

Laelaps muris Ljungh—several mites from *Microtus p. pennsylvanicus* (Ord), Komoa, January 2, 1933, E. Davis (slide E16.49); one mite from *M. p. pennsylvanicus* (Ord), London Twp., Middlesex Co., February 4, 1952 (E16.62).
Laelaps microti (Ew.)—several mites from *Microtus p. pennsylvanicus* (Ord), Komoka, January 2, 1933, E. Davis (E16.49); several mites from *M. p. pennsylvanicus* (Ord), Melrose, December 21, 1940, N. R. Brown (E16.55).

IXODIDAE

Ixodes cookei Packard—1 ♀ from *Mephitis mephitis* (Schreber), Byron, November 13, 1932, E. Davis (E16.48); 1 engorged ♀ from *Felis domesticus* L., a young kitten to which the tick was firmly attached in a pit in the skin between the right shoulder and the back, Delaware Twp., Middlesex Co., July 22, 1952, D. A. McLarty (E16.15); 1 ♀ from *Castor canadensis* Kuhl., Arden Lake, Arden Twp., Sudbury Dist., May 11, 1953, W. Punstel; 2 ♀♀ from *Marmota monax* (L.), a young animal of the year, London, June 18, 1953, W. W. Judd (E18.20, 21).

ANOPLURA

HAEMATOPINIDAE

Hoplopleura acanthopus (Burm.)—8 lice from *Microtus p. pennsylvanicus* (Ord), London Twp., Middlesex Co., February 4, 1952 (E16.60, 61). G. F. Ferris (The sucking lice. Mem. Pacific Coast Entomol. Soc., vol. 1, 1951) reports this species from several spp. of *Microtus*, not including *M. pennsylvanicus*.
Neohaematopinus sciurinus (Mjöberg)—3 lice from *Sciurus carolinensis leucotis* (Gapper), London, December 6, 1933, E. Davis (E16.36).

MALLOPHAGA

TRICHOECTIDAE

Eutrichophilus setosus Giebel—numerous ♂♂ and ♀♀ from *Erethizon dorsatum* (L.), Atikokan, June 2, 1933, E. Davis (E16.56-59). This sp. was recorded from *E. dorsatum* in Nova Scotia by G. B. Thompson (Can. Entomol., 66: 279-281, 1934).
Trichodectes canis (DeGeer)—numerous ♂♂ and ♀♀ from *Canis (lupus L.?)*, Maple, January 29, 1953 (E16.63-65). The host was a pup, taken from a den near Elizabethtown on February 26, 1952, and may have been an offspring from a mating of a wild wolf and a domestic dog. The parasites were removed from it on its death at Maple on January 29, 1953 after it had been kept in captivity since its original capture. G. B. Thompson (Can. Entomol., 66: 279-281, 1934) records *T. canis* from a timber wolf at Hearst, Ont.

SIPHONAPTERA

HYSTRICHOPSYLLIDAE

Nearctopsylla g. genalis (Baker)—3 ♂♂, 1 ♀ from *Mustela erminea cicognanii* Bonaparte, December 28, 1932, Hough Lake, E. Davis (E16.40, 41).

Tamiofila grandis (Rothsch.)—1 ♀ from *Tamias striatus lysteri* (Richardson), September 2, 1932, Penetanguishene, E. Davis (E16.42).

Ceratophyllidae

Orchopeas caedens (subsp. *durus* ?) (Jordan)—1 ♀ from *Mustela vison* Schreber, March 20, 1953, Chaplin Twp., Sudbury Dist., T. Cachagee (E18.26). G. P. Holland (Siphonaptera of Canada. Dept. Agric., Tech. Bull. 80, 1949) lists this flea as a parasite of squirrels and includes some cases of its occurrence on *Mustela* spp. In the latter case the parasites presumably move to the predator from squirrels being devoured.

Orchopeas leucopus (Baker)—numerous ♂♂ and ♀♀ from *Peromyscus* sp. (captives in laboratory cages), May 19, 1951, London, R. H. Stinson (E17.92-100, E18.1-5).

COLEOPTERA

LEPTINIDAE

Leptinillus validus (Horn)—8 larvae from *Castor canadensis* Kuhl., January 21, 1954, Twp. 35, Chapleau Forestry Dist., V. Crichton (E18.22-25). The specimens were identified with keys in H. F. Chu (How to know the immature insects. W. C. Brown Co., Dubuque, Iowa, 1949). G. H. Horn described this species as *Leptinus validus* (Trans. Amer. Ent. Soc., 4: 145-146, 1872) and discussed it further (Trans. Amer. Ent. Soc., 10: 113-114, 1882), his specimens being from northern Ontario.—W. W. Judd, Dept. of Zoology, University of Western Ontario, London, Ontario.