

PARASITES OF ANIMALS IN THE NETHERLANDS

Supplement II: Parasites of wild mammals

by

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This second supplement to the list of parasites in the Netherlands (SWIERSTRA, c.s., 1959) deals with parasites found on free-living mammals in the years 1959-1963 inclusive. The parasites listed here are identified for the first time at the Institute for Veterinary Parasitology, but some are known to occur in this country from the reports of other workers, for instance the fleas from various rodents (see SMIT, 1962).

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Host	Parasite
<i>Sorex araneus</i>	<i>Ixodes ricinus</i> (L., 1758) larva A (1)
<i>Talpa europaea</i>	<i>Ixodes ricinus</i> (L., 1758) larva A (1)
<i>Leuconoë daubentoni</i>	<i>Plagiorchis vespertilionis</i> (Müller, 1784) T
<i>Pipistrellus pipistrellus</i>	<i>Pycnopus heteroporus</i> (Dujardin, 1845) T
<i>Oryctolagus cuniculus</i>	<i>Haemodipsus ventricosus</i> (Denny, 1842) H <i>Spilopsyllus cuniculi</i> (Dale, 1878) H <i>Ixodes ricinus</i> (L., 1758) larva, nymph A <i>Cittotaenia ctenoides</i> (Railliet, 1890) C
<i>Sciurus vulgaris</i>	<i>Tarsopsylla octodecimdentata octodecimdentata</i> (Kolenati, 1863) H
<i>Rattus norvegicus</i>	<i>Polyplax spinulosa</i> (Burmeister, 1839) H <i>Ctenophthalmus agyrtes smitiani</i> Peus, 1950 H (2) <i>Ganguleterakis spumosa</i> (Schneider, 1866) N (3)
<i>Mus musculus</i>	<i>Nosopsyllus fasciatus</i> (Bosc, 1800) H (4) <i>Notoedres musculi</i> Oudemans, 1898, A (5) <i>Capillaria hepatica</i> (Bancroft, 1893) N
<i>Lutra lutra</i>	<i>Pseudamphistomum truncatum</i> (Rudolphi, 1819) T
<i>Phoca vitulina</i>	<i>Corynosoma strumosum</i> (Rudolphi, 1802) Ac (6)
<i>Halichoerus grypus</i>	<i>Echinophthirius horridus</i> (Olfers, 1816) H (7) <i>Contracecum osculatum</i> (Rudolphi, 1802) N

Host	Parasite
<i>Sus scrofa</i>	<i>Metastrongylus apri</i> (Gmelin, 1790) N <i>Metastrongylus pudendotectus</i> Wostokow, 1905 N <i>Metastrongylus salmi</i> Gedoelst, 1923 N <i>Ascarops strongylina</i> (Rudolphi, 1819) N <i>Physocephalus sexalatus</i> (Molin, 1860) N
<i>Cervus elaphus</i>	<i>Lipoptena cervi</i> (L., 1761) H <i>Damalinia longicornis</i> (Nitzsch, 1818) H <i>Cervophthirus burmeisteri</i> (Fahrenholz, 1919) H <i>Cysticercus tenuicollis</i> Rudolphi, 1810 C <i>Echinococcus granulosus</i> (Batsch, 1786) C <i>Dictyocaulus eckerti</i> Skrjabin, 1931 N
<i>Capreolus capreolus</i>	<i>Damalinia meyeri</i> (Taschenberg, 1882) H (8) <i>Ixodes ricinus</i> (L., 1758) A <i>Dictyocaulus eckerti</i> Skrjabin, 1931 N (9)
<i>Ovis aries musimon</i> (10)	<i>Skrjabinema ovis</i> (Skrjabin, 1915) N <i>Stadelmannia circumcincta</i> (Stadelmann, 1894) N <i>Stadelmannia trifurcata</i> (Ransom, 1907) N <i>Spiculoptera spiculoptera</i> Gushanskaya, 1931 N <i>Rinadia mathevossiani</i> Rukhliadev, 1948 N <i>Haemonchus contortus</i> (Rudolphi, 1803) N <i>Skrjabinagia lasensis</i> (Asadov, 1953) N <i>Ostertagia leptospicularis</i> Asadov, 1953 N <i>Trichostrongylus colubriformis</i> (Giles, 1892) N

ABBREVIATIONS:

H, Hexapoda (Insecta); A, Acarina; T, Trematoda; C, Cestoda; N, Nematoda; Ac, Acanthocephala.

The hosts have been named and mentioned in the order accepted by VAN DEN BRINK'S Zoogdierengids (1955).

NOTES

1. Identified by Miss E. GOEDBLOED, Leiden.
2. This find of five ♂ specimens in a meadow near de Bilt (district Utrecht) is in agreement with the view of SMIT (1962) regarding the distribution of the subspecies *Ctenophthalmus a. agyrtes* and *Ct. a. smitianus* in the Netherlands.
3. One male specimen only.
4. Host caught in the Institute building. The flea *Nosopsyllus fasciatus* is considered to be not uncommon on *Mus musculus* in the neighbourhood of human settlements. Its principal hosts are *Rattus spp.* (SMIT, 1962).
5. There is some doubt that *Notoedres musculi* Oudemans, 1898 is really identical with *Notoedres musculi* (Kraemer, 1866), although OUDEMANS himself, ac-

ording to his card-index, has in later years considered the species as identical.

6. Already reported from the same host by HAVINGA (1933).
7. Identification confirmed by Dr. TH. CLAY, London, who has compared the specimens with material from the same host in the British Museum.
8. Females only, identification therefore not quite certain.
9. The lungworm listed from roe deer and red deer is *Dictyocaulus eckerti*, following the nomenclature of BOEV (1957) who distinguishes this parasite from *D. viviparus* in cattle. Unfortunately this difference is not based on morphology but on indications that cross-infections between cattle and deer do not occur. Experimental research will decide if *D. eckerti* is indeed a valid species.
10. *Spiculoptera spiculoptera* and *Rinadia mathevossiani* are typical trichostrongylids of deer. The occurrence of these parasites in the moufflons is easily explained by the fact that the moufflons live in the same areas as deer. It was conspicuous that a high percentage of these trichostrongylids, which occurred in small numbers only in the moufflons, had abnormalities in the spicules. The finding of *R. mathevossiani* in the moufflons is a new host-parasite record.

SUMMARY

A supplementary survey is given of endo- and ectoparasites collected from wild mammals in the Netherlands.

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