

THE SPECIES OF MALLOPHAGA
FOUND ON
NORTH AMERICAN MAMMALS
(NORTH OF MEXICO)

DEFENSE PEST MGMT INFO ANALYSIS CTR
AFPMB, FOREST GLEN SECTION, WRAMC
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by

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PREFACE

Part III is a ready reference to the known species of Mallophaga found on mammals of North America (North of Mexico), as recorded in Parts I and II.

Classification for the mammals, except for the Pocket Gophers, is from Miller and Kellogg (1955)--"List of North American Recent Mammals."

Published records of Mallophaga from mammals are few in number, even for domestic mammals. Hosts which are expected to have Mallophaga, but for which no records are known, are:

- Arctic Fox
- Swift Fox
- Brown Bear
- Grizzly Bear
- Polar Bear
- Fisher
- Wolverine
- Otter
- Sea Otter
- Jaguar
- Moose
- Caribou
- Pronghorn
- Musk Ox

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RODENTIA
Geomyidae

The genus Geomydoecus Ewing, 1929 (Manual of External Parasites: 121 and 193) is found only on the Pocket Gophers. Each host species has at least one species of Mallophaga, and two are not unusual. Some species appear to be host subspecific. Therefore, the host list has been prepared to reflect all subspecies records. The genus was recently reviewed by Price and Emerson, 1971 (J. Med. Ent., 8:228).

RODENTIA
Geomyidae

Thomomys bottae analogus Goldman

Geomydoecus californicus (Chapman, 1897)

(Type host: Thomomys bottae bottae Eydoux and Gervais).

Geomydoecus subcalifornicus Price and Emerson, 1971

Geomydoecus subcalifornicus Price and Emerson, 1971.

J. Med. Ent., 8:240.

Thomomys bottae anitae J. A. Allen

Geomydoecus californicus (Chapman, 1897)

(Type host: Thomomys bottae bottae Eydoux and Gervais).

Thomomys bottae aureus J. A. Allen

Geomydoecus californicus (Chapman, 1897)

(Type host: Thomomys bottae bottae Eydoux and Gervais).

- Thomomys bottae bottae (Eydoux and Gervais)
Geomydoecus californicus (Chapman, 1897)
Trichodectes californicus Chapman, 1897. Ent.
News. 8:186, pl. 9, fig. 1.
- Thomomys bottae chrysonotus Grinnell
Geomydoecus californicus (Chapman, 1897)
(Type host: Thomomys bottae bottae Eydoux and
Gervais).
- Thomomys bottae pervagus Merriam
Geomydoecus californicus (Chapman, 1897)
(Type host: Thomomys bottae bottae Eydoux and
Gervais).
- Geomydoecus minor Werneck, 1950
(Type host: Thomomys baileyi tularosae Hall)
- Thomomys bottae robustus Durrant
Geomydoecus californicus (Chapman, 1897)
(Type host: Thomomys bottae bottae Eydoux and
Gervais).
- Thomomys bottae simulus Nelson and Goldman
Geomydoecus californicus (Chapman, 1897)
(Type host: Thomomys bottae bottae Eydoux and
Gervais).
- Thomomys bottae sinaloae Merriam
Geomydoecus californicus (Chapman, 1897)
(Type host: Thomomys bottae bottae
Eydoux and Gervais).
- Thomomys baileyi tularosae Hall
Geomydoecus minor Werneck, 1950
Geomydoecus chapini minor Werneck, 1950.
Malofagos de Mamiferos, Parte 2:16, figs. 14-16.
- Thomomys bulbivorus (Richardson)
Geomydoecus oregonus oregonus Price and Emerson, 1971
Geomydoecus oregonus oregonus Price and Emerson,
1971. J. Med. Ent., 8:243, figs. 10, 11, 36, 42, 52,
and 133.

Thomomys talpoides agrestis Merriam

Geomydoecus thomomyus (McGregor, 1917)

(Type host: Thomomys talpoides fossor J. A. Allen).

Thomomys talpoides bullatus V. Bailey

Geomydoecus thomomyus (McGregor, 1917)

(Type host: Thomomys talpoides fossor J. A. Allen).

Geomydoecus wardi Price and Emerson, 1971:

(Type host: Thomomys talpoides macrotis F. W. Miller).

Thomomys talpoides clusius Coues

Geomydoecus thomomyus (McGregor, 1917)

(Type host: Thomomys talpoides fossor J. A. Allen).

Geomydoecus wardi Price and Emerson, 1971

(Type host: Thomomys talpoides macrotis F. W. Miller).

Thomomys talpoides confinis Davis

Geomydoecus dakotensis Price and Emerson, 1971

(Type host: Thomomys talpoides rufescens Wied-Neuwied).

Thomomys talpoides devexus Hall and Dalquest

Geomydoecus thomomyus (McGregor, 1917)

(Type host: Thomomys talpoides fossor J. A. Allen).

Thomomys talpoides douglasii (Richardson)

Geomydoecus thomomyus (McGregor, 1917)

(Type host: Thomomys talpoides fossor J. A. Allen).

Thomomys talpoides fossor J. A. Allen

Geomydoecus thomomyus (McGregor, 1917)

Trichodectes thomomyus McGregor, 1917. Ann. Ent. Soc. Amer., 10:169, pl. 17, figs. 2-4.

Geomydoecus wardi Price and Emerson, 1971

(Type host: Thomomys talpoides macrotis F. W. Miller).

- Thomomys talpoides fuscus Merriam
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys talpoides macrotis F. W. Miller
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Geomydoecus wardi Price and Emerson, 1971
Geomydoecus wardi Price and Emerson, 1971.
J. Med. Ent., 8:248, figs. 9, 85, and 124.
- Thomomys talpoides nebulosus V. Bailey
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Geomydoecus wardi Price and Emerson, 1971
(Type host: Thomomys talpoides macrotis F. W. Miller).
- Thomomys talpoides ocius Merriam
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Geomydoecus wardi Price and Emerson, 1971
(Type host: Thomomys talpoides macrotis F. W. Miller).
- Thomomys talpoides pygmaeus Merriam
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys talpoides quadratus Merriam
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys talpoides ravus Durrant
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys talpoides rufescens Wied-Neuwied
Geomydoecus dakotensis Price and Emerson, 1971
Geomydoecus dakotensis Price and Emerson, 1971.
J. Med. Ent., 8:243, figs. 74, 117, and 118.

- Thomomys talpoides talpoides (Richardson)
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys talpoides uinta Merriam
Geomydoecus duchesnensis Price and Emerson, 1971
Geomydoecus duchesnensis Price and Emerson, 1971.
J. Med. Ent., 8:243, figs. 112 and 113.
- Thomomys talpoides wasatchensis Durrant
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys mazama glacialis Dalquest and Schaffer
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys mazama tumuli Dalquest and Schaffer
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys monticola hesperus Merriam
Geomydoecus thomomyus (McGregor, 1917)
(Type host: Thomomys talpoides fossor J. A. Allen).
- Thomomys townsendii elkoensis Davis
Geomydoecus oregonus idahoensis
Price and Emerson, 1971 (Type host: Thomomys townsendii townsendii (Bachman)).
- Thomomys townsendii nevadensis Merriam
Geomydoecus oregonus idahoensis Price and Emerson, 1971
(Type host: Thomomys townsendii townsendii (Bachman)).
- Thomomys townsendii townsendii (Bachman)
Geomydoecus oregonus idahoensis Price and Emerson, 1971
Geomydoecus oregonus idahoensis Price and Emerson,
1971. J. Med. Ent., 8:245.
- Geomys pinetis austrinus Bangs
Geomydoecus scleritus (McGregor, 1917)
(Type host: Geomys pinetis floridanus (Audubon and Bachman)).

Geomys pinetis floridanus (Audubon and Bachman)
Geomydoecus scleritus (McGregor, 1917)
Trichodectes scleritus McGregor, 1917. Ann. Ent.
Soc. Amer., 10:172, pl. 17, fig. 5.

Geomys pinetis goffi Sherman
Geomydoecus scleritus (McGregor, 1917)
(Type host: Geomys pinetis floridanus (Audubon and
Bachman)).

Geomys pinetis mobilensis Merriam
Geomydoecus scleritus (McGregor, 1917)
(Type host: Geomys pinetis floridanus (Audubon and
Bachman)).

Geomys pinetis pinetis Rafinesque
Geomydoecus scleritus (McGregor, 1917)
(Type host: Geomys pinetis floridanus (Audubon and
Bachman)).

Geomys colonus Bangs
Geomydoecus scleritus (McGregor, 1917)
(Type host: Geomys pinetis floridanus (Audubon and
Bachman)).

Geomys cumberlandius Bangs
Geomydoecus scleritus (McGregor, 1917)
(Type host: Geomys pinetis floridanus (Audubon and
Bachman)).

Geomys fontanelus Sherman
Geomydoecus scleritus (McGregor, 1917)
(Type host: Geomys pinetis floridanus (Audubon and
Bachman)).

Geomys bursarius attwateri Merriam
Geomydoecus oklahomensis Price and Emerson, 1971
(Type host: Geomys bursarius dutcheri Davis).

Geomys bursarius brazensis Davis
Geomydoecus geomydis subgeomydis Price and Emerson, 1971
Geomydoecus geomydis subgeomydis Price and Emerson,
1971. J. Med. Ent., 8:236.

Geomysdoecus oklahomensis Price and Emerson, 1971
(Type host: Geomys bursarius dutcheri Davis).

Geomys bursarius breviceps Baird
Geomysdoecus ewingi Price and Emerson, 1971
(Type host: Geomys bursarius major Davis).

Geomys bursarius bursarius (Shaw)
Geomysdoecus geomydis geomydis (Osborn, 1891)
Trichodectes geomydis Osborn, 1891. Bull. U.S.
Bur. Ent., 7:54, fig. 42.

Geomys bursarius dutcheri Davis
Geomysdoecus ewingi Price and Emerson, 1971
(Type host: Geomys bursarius major Davis).

Geomysdoecus oklahomensis Price and Emerson, 1971
Geomydoecus oklahomensis Price and Emerson, 1971.
J. Med. Ent., 8:242.

Geomys bursarius illinoensis Komarek and Spencer
Geomysdoecus illinoensis Price and Emerson, 1971
Geomydoecus illinoensis Price and Emerson, 1971.
J. Med. Ent., 8:238, fig. 82.

Geomys bursarius industris Villa and Hall
Geomysdoecus oklahomensis Price and Emerson, 1971
(Type host: Geomys bursarius dutcheri Davis).

Geomys bursarius lutescens Merriam
Geomysdoecus geomydis geomydis (Osborn, 1891)
(Type host: Geomys bursarius bursarius (Shaw)).

Geomys bursarius major Davis
Geomysdoecus ewingi Price and Emerson, 1971
Geomydoecus ewingi Price and Emerson, 1971.
J. Med. Ent., 8:238.

Geomysdoecus oklahomensis Price and Emerson, 1971
(Type host: Geomys bursarius dutcheri Davis).

- Geomys bursarius majusculus Swenk
Geomydoecus geomydis geomydis (Osborn, 1891)
(Type host: Geomys bursarius bursarius (Shaw).
- Geomys bursarius pratincola Davis
Geomydoecus ewingi Price and Emerson, 1971
(Type host: Geomys bursarius major Davis).
- Geomys arenarius arenarius Merriam
Geomydoecus quadridentatus Price and Emerson, 1971
Geomydoecus quadridentatus Price and Emerson, 1971.
J. Med. Ent., 8:240, figs. 94, 106, and 146.
- Geomys arenarius brevisrostris Hall
Geomydoecus quadridentatus Price and Emerson, 1971
(Type host: Geomys arenarius arenarius Merriam).
- Geomys personatus fallax Merriam
Geomydoecus texanus Ewing, 1936
Geomydoecus texanus Ewing, 1936. Jour. Parasit.,
22:241.
- Geomys personatus megapotamus Davis
Geomydoecus texanus Ewing, 1936
(Type host: Geomys personatus fallax Merriam).
- Geomys personatus personatus True
Geomydoecus texanus Ewing, 1936
(Type host: Geomys personatus fallax Merriam).
- Geomys personatus streckeri Davis
Geomydoecus truncatus Werneck, 1950
Geomydoecus truncatus Werneck, 1950. Malofagos
de Mamiferos, Parte 2:13, figs. 12-13.
- Pappogeomys castanops castanops (Baird)
Geomydoecus expansus (Duges, 1902)
Trichodectes expansus Duges, 1902. Mem. Rev. Soc.
Cient. Antonio Alzate 18:185, figs.
- Pappogeomys castanops lacrimalis (Nelson and Goldman)
Geomydoecus expansus (Duges, 1902)
(Type host: Pappogeomys castanops castanops (Baird).

RODENTIA
Erethizontidae

The genus Eutrichophilus Mjöberg, 1910 (Ark. Zool.,
6: 63) is found only on the Porcupines. Only one species is
known from North American Porcupines.

RODENTIA
Erethizontidae

Erethizon dorsatum (Linnaeus)--Porcupine

Eutrichophilus setosus (Giebel, 1861)

Trichodectes setosus Giebel, 1861. Z. ges
NatWiss., 18:86.

RODENTIA
Caviidae

The genera Gliricola Mjöberg, 1910 (Zool. Anz., 35:392);
Gyropus Nitzsch, 1818 (Mag. Ent. Germar, 3:303); and Trimenopon
Cummings, 1913 (Bull. Ent. Res., 4:39) are found on the Guinea
Pig and other related mammals native to South America.

RODENTIA
Caviidae

Cavia porcellus (Linnaeus)--Guinea Pig

Gliricola porcelli (Schrank, 1781)

Pediculus porcelli Schrank, 1781. Enum. Ins.

Austr. Indig.: 500, pl. 1, fig. 1.

Pediculus saviae Schrank, 1803. Fauna Boica: 186
(nn for P. porcelli Schrank, 1781).

Pediculus bifurcatus Olfers, 1816. De Veget., 1:83
(nn for P. porcelli Schrank, 1781).

Gyropus gracilis Nitzsch, 1818. Mag. Ent. Germar,
3:304 (nn for P. porcelli Schrank, 1781).

Gyropus porcelli perfoliatus Neumann, 1912. Bull.
Sec. Zool. Fr., 37:216.

Gyropus bicaudatus Paine, 1912. Ent. News,
23:441, pl. 20, fig. 3.

Gliricola mexicanus Zavaleta, 1946. Ann. Inst.
Biol. Mex., 16:435, fig. 1.

Gyropus ovalis Burmeister, 1838

Gyropus ovalis Burmeister, 1838. Handb. Ent., 2:443.

Gyropus turbinatus Piaget, 1880. Les Pediculines: 612,
pl. 50, fig. 7.

Gyropus recifensis Torres, 1938. Bol. Soc. Brasil
Med. Vet., 8:279 and 288, figs. 1-4.

Macrogyropus mexicanus Zavaleta, 1946. Ann. Inst.
Biol. Mex., 16:438, fig. 2.

- Trimenopon hispidum (Burmeister, 1838)
Gyropus hispidum Burmeister, 1838. Handb. Ent., 2:
443.
Trimenopon echinoderma Cummings, 1913. Bull. Ent.
Res., 4:40, fig. 4.
Menopon jenningsi Kellogg and Paine, 1910. Ent.
News, 21:461, fig. 1.
Trimenopon rozeboomi Emerson, 1940. Ann. Ent.
Soc. Amer., 33:339, figs. 1-4.

RODENTIA
Capromyidae

The genus Pitrufoquia Marelli, 1932 (La Charca, 3:9)
is monotypic and known only from the Nutria.

RODENTIA
Capromyidae

Myocastor coypus (Molina)--Nutria

- Pitrufoquia coypus Marelli, 1932.
Pitrufoquia coypus Marelli, 1932. La Chacra,
3:9, figs. 1-6.
Pitrufoquia mollis Marelli, 1933. Rev. Soc. Ent.
Argentina, 5:299.

CARNIVORA
Canidae

The genus Heterodoxus Le Souëf and Bullen, 1902
(Victoria Nat., 18:159) is represented in North America by only
one species.

The genera Suricatoecus Bedford, 1932 (Parasitology,
24:354) and Trichodectes Nitzsch, 1818 (Mag. Ent. Germar, 3:294)
are found world-wide on the Carnivora.

CARNIVORA
Canidae

Canis latrans Say - Coyote

Heterodoxus spiniger (Enderlein, 1909)
(Type host: Dog)

Trichodectes canis (deGeer, 1778)
(Type host: Dog)

Canis lupus Linnaeus - Wolf

Trichodectes canis (deGeer, 1778)
(Type host: Dog)

Canis familiaris Linnaeus - Dog

Heterodoxus spiniger (Enderlein, 1909)
Menopon spiniger Enderlein, 1909. Jenais. Denkschr.,
14:80, pl. 8, figs. 4-5.
Heterodoxus armiferus Paine, 1912. Ent. News.,
23:362, figs. A-D.
Menopon spinigerum Neumann, 1912. Arch.
Parasit., 15:364, fig. 12.

Trichodectes canis (deGeer, 1778)

Ricinus canis deGeer, 1778. Mem. Hist. Ins., 7:81, pl. 4, fig. 16.

Pediculus canis O. Fabricius, 1780. Fauna Groenlandica: 215.

Trichodectes latus Nitzsch, 1818. Mag. Ent. Germar, 3:296 (nn for R. canis deGeer, 1778).

Trichodectes octopunctatus Denny, 1852. List Brit. Animals in Brit. Mus., Pt. II, Anoplura: 29 (nn for T. latus Nitzsch, 1818).

Trichodectes riveti Neumann, 1913. Arch. Parasit., 15:614, figs. 7-8.

Trichodectes floridanus McGregor, 1917. Ann. Ent. Soc. Amer., 10:168, pl. 16, figs. 3 and 5.

Vulpes fulva (Desmarest)--Red Fox*

Suricatoecus vulpis (Denny, 1842)

(Type host: Vulpes vulpes (Linnaeus))

Trichodectes vulpis Denny, 1842. Mon. Anopl. Brit.: 189, pl. 17, fig. 5.

Trichodectes micropus Giebel, 1871. Z. ges. NatWiss., 37:177 (nn for T. vulpis Denny, 1842).

Trichodectes abnormis Ewing, 1930. Proc. Ent. Soc. Wash., 32:121.

Vulpes macrotis Merriam--Kit Fox

Suricatoecus quadraticeps (Chapman, 1897)

(Type host: Urocyon cinereoargenteus (Schreber)).

Urocyon cinereoargenteus (Schreber)--Gray Fox

Suricatoecus quadraticeps (Chapman, 1897)

Trichodectes quadraticeps Chapman, 1897. Ent. News, 8:185, pl. 9, fig. 2.

*Material examined to date from this host has been insufficient to state definitely that this species of Mallophaga is found in North America. Suricatoecus quadraticeps (Chapman, 1897) may prove to be the form found on this host.

CARNIVORA
Ursidae

Mallophaga have been reported from only one species of
North American Bear.

CARNIVORA
Ursidae

Euarctos americanus Pallas--Black Bear

Trichodectes pinguis euarctidos Hopkins, 1954

Trichodectes pinguis euarctidos Hopkins, 1954.

Entomologist, 87:142, figs. 2, 3, 5, 6, 8-11.

CARNIVORA
Procyonidae

The genus Trichodectes was discussed previously.

The genus Neotrichodectes Ewing, 1929 (Manual External
Parasites: 121 and 194) is found world-wide on this family and
Mustelidae.

CARNIVORA
Procyonidae

Bassaricus astutus (Lichtenstein)--Cacomistle

Neotrichodectes thoracicus (Osborn, 1902)

Trichodectes thoracicus Osborn, 1902. Ohio Nat.,
2:178, pl. II, fig. 4.

Procyon lotor (Linnaeus)--Raccoon

Trichodectes octomaculatus Paine, 1912

Trichodectes octomaculatus Paine, 1912. Ent. News,
23:438, pl. 20, fig. 1.

Trichodectes procyonis Neumann, 1913. Arch.
Parasit., 15:626, fig. 14.

Nasua narica (Linnaeus)--Coati

Neotrichodectes pallidus (Piaget, 1880)

Trichodectes pallidus Piaget, 1880. Les Pediculines:
405; pl. 32, fig. 9.

Trichodectes nasuatis Osborn, 1902. Ohio Nat.,
2:178, pl. II, fig. 3.

CARNIVORA
Mustelidae

The genus Neotrichodectes was discussed previously.

The genus Stachiella Keler, 1938 (Nova Acta. Leop. -Carol
(n. f.), 5:428) is found world-wide on members of this family.

CARNIVORA
Mustelidae

Martes caurina (Merriam)--Marten

Stachiella retusa martis Werneck, 1948.

Stachiella retusa martis Werneck, 1948. Malofagos
de Mamíferos, Part 1:156, figs. 231-232.

Mustela erminea (Linnaeus)--Ermine

Stachiella ermineae Hopkins, 1941.

Stachiella ermineae Hopkins, 1941. Ann. Mag.
Nat. Hist., (11) 7:38.

Mustela rixosa (Bangs)--Least Weasel

Stachiella kingi (McGregor, 1917)

Trichodectes kingi McGregor, 1917. Ann. Ent. Soc.
Amer., 10:167, pl. 17, figs. 1 and 1a.

Mustela frenata Lichtenstein--Bridled Weasel

Neotrichodectes minutus (Paine, 1912)

Trichodectes minutus Paine, 1912. Ent. News,
23:439, pl. 20, fig. 4.

Mustela vison Schreber--Mink

Stachiella larseni Emerson, 1962

Stachiella larseni Emerson, 1962. Ent. News, 73:203,
figs. 1-3.

Mustela nigripes (Audubon and Bachman)--Black-footed Ferret

Neotrichodectes minutus (Paine, 1912)

(Type host: Mustela frenata Lichtenstein) (Based on
one record which needs confirmation).

Taxidea taxus (Schreber)--Badger

Neotrichodectes interruptofasciatus (Kellogg and Ferris, 1915)

Trichodectes interrupto-fasciatus Kellogg and Ferris,
1915. Anoplura and Mallophaga of North American
Mammals: 61, pl. 7, figs. 1-3.

Spilogale ambarvalis Bangs--Florida Spotted Skunk

Neotrichodectes osborni Keler, 1944

(Type host: Spilogale interrupta (Rafinesque)).

Spilogale putorius (Linnaeus)--Alleghenian Spotted Skunk

Neotrichodectes osborni Keler, 1944

(Type host: Spilogale interrupta (Rafinesque))

Spilogale interrupta (Rafinesque)--Prairie Spotted Skunk

Neotrichodectes osborni Keler, 1944

Trichodectes mephitidis Osborn, 1896 (nec Packard, 1872), Bull. U.S. Bur. Ent. (n. s.), 5:242, fig. 150.

Neotrichodectes osborni Keler, 1944. Stettin. Ent. Ztg., 105:182 (nn for T. mephitidis Osborn, 1896)

Spilogale indianola Merriam--Gulf Spotted Skunk

Neotrichodectes osborni Keler, 1944.

(Type host: Spilogale interrupta (Rafinesque).)

Spilogale gracilis Merriam--Western Spotted Skunk

Neotrichodectes osborni Keler, 1944

(Type host: Spilogale interrupta (Rafinesque).)

Mephitis mephitis (Schreber)--Striped Skunk

Neotrichodectes mephitidis (Packard, 1872)

Goniodes mephitidis Packard, 1872. Rept. U.S. Geol. Surv., 6:732, fig. 60.

Trichodectes castoris Osborn, 1896. Bull. U.S. Bur. Ent. (n. s.), 5:241, fig. 149.

Trichodectes monticolus McGregor, 1917, Ann. Ent. Soc. Amer., 10:171, pl. 16, figs. 1, 2 and 4.

Mephitis macroura Lichtenstein--Hooded Skunk

Neotrichodectes mephitidis (Packard, 1872)

(Type host: Mephitis mephitis (Schreber))

Conepatus leuconotus (Lichtenstein)--Texas Hog-nosed Skunk

Neotrichodectes arizonae Werneck, 1948

(Type host: Conepatus mesoleucus (Lichtenstein))

Conepatus mesoleucus (Lichtenstein)--Arizona Hog-nosed Skunk

Neotrichodectes arizonae Werneck, 1948

Neotrichodectes arizonae Werneck, 1948. Malofagos de Mamíferos, Part 1:135, figs. 187-189.

Neotrichodectes spatulatus Cook, 1953. Ent. News, 64:61, figs. 1-3.

CARNIVORA

Felidae

The genus Felicola Ewing, 1929 (Manual External Parasites: 121, 122 and 192) is found in North America only on hosts of this family.

CARNIVORA

Felidae

Felis catus Linnaeus--Domestic Cat

Felicola subrostratus (Burmeister, 1818)

Trichodectes subrostratus Burmeister, 1818. Handb. Ent., 2:438.

Felicola rostratus Bedford, 1932. Parasitology, 24:360, figs. 6A, 6Ba, and 6C.

Felis pardalis Linnaeus--Ocelot

Felicola felis (Werneck, 1934)

Trichodectes felis Werneck, 1934. Mem. Inst. Oswaldo Cruz, 28:282, figs. 11-14.

Felis concolor Kerr-Cougar

Felicola felis (Werneck, 1934)

(Type host: Felis pardalis Linnaeus) (Record by Werneck, 1948 needs confirmation).

Felis yagouaroundi Desmarest--Jaguarundi

Felicola felis (Werneck, 1934)

(Type host: Felis pardalis Linnaeus) (Record by Werneck, 1948 needs confirmation).

Lynx canadensis Kerr--Canada Lynx

Felicola spenceri Hopkins, 1960

Felicola spenceri Hopkins, 1960. Bull. Brit. Mus.
(N. H.), Ent., 10:80, t.f. 2; pl. 1; fig. 1.

Lynx rufus (Schreber)--Bobcat

Felicola felis (Werneck, 1934)

(Type host: Felis pardalis Linnaeus).

PERISSODACTYLA
Equidae

The genus Bovicola Ewing, 1929 (Manual External Parasites: 121, 123 and 193) is found on several families of hooved mammals.

Only one species of Bovicola is known from the horse. Bovicola asini (Eichler, 1953) (Mh. Vet. Med., 8:445, fig.) has been recorded from the donkey; however, it has not been found in North America.

PERISSODACTYLA
Equidae

Equus caballus Linnaeus --Horse

Bovicola equi (Denny, 1842)

Trichodectes equi Denny, 1842. Mon. Anopl. Brit: 61 and 191, pl. 17, fig. 7.

Trichodectes pilosus Giebel, 1874. Insecta Epizoa: 59.

Trichodectes parumpilosus Piaget, 1880. Les
Pediculines: 397, pl. 32, fig. 5.

Trichodectes parumpilosus tarsatus Piaget, 1880.
Les Pediculines: 399.

Trichodectes vestitus Railliet, 1895. Tr. Zool.
Med. Agri.: 835.

Trichodectes pubescens Macqueen, 1905. Parasites
Parasitic Diseases Domestic Animals, ed. 2:61.

Equus asinus Linnaeus --Donkey

Bovicola equi (Denny, 1842)

(Type host: Equus caballus Linnaeus)

ARTIODACTYLA
Tayassuidae

The genus Macrogyropus Ewing, 1924 (Proc. U. S. Nat. Mus., 63:25) is found on several hosts in Central and South America. The only species found in North America is also found on the White-lipped Peccary.

ARTIODACTYLA
Tayassuidae

Pecari tajacu (Linnaeus)--Collared Peccary

Macrogyropus dicotylis (Macalister, 1869)

Gyropus dicotylis Macalister, 1869. Proc. Zool. Soc. London, 1869: 420, fig.

Macrogyropus dentatus Ewing, 1924. Proc. U. S. Nat. Mus., 63:26, pl. 1, fig. 5.

ARTIODACTYLA
Cervidae

The genus Bovicola was discussed previously.

The genus Tricholipeurus Bedford, 1929 (Rept. Vet. Res. S. Africa, 15:514) is found only on the family Cervidae.

ARTIODACTYLA

Cervidae

Cervus canadensis (Erxleben)--Wapiti

Bovicola concavifrons (Hopkins, 1960)

Damalinia concavifrons Hopkins, 1960. Bull.

Brit. Mus. (N.H.), Ent., 10:87, t.f. 7-8.

Bovicola longicornis (Nitzsch, 1818)

(Type host: Cervus elephus Linnaeus)

Trichodectes longicornis Nitzsch, 1818.

Mag. Ent. Germar, 3:296.

Trichodectes similis Denny, 1842. Mon. Anopl.

Brit.: 61 and 195, pl. 17, fig. 6.

Bovicola americanum Jellison, 1935. Jour. Parasit.,
21:410, fig.

Odocoileus hemionus (Rafinesque)--Black-tailed Deer

Tricholipeurus lipeuroides (Megnin, 1884)

(Type host: Odocoileus virginianus (Zimmermann))

Tricholipeurus parallelus (Osborn, 1896)

(Type host: Odocoileus virginianus (Zimmermann))

Odocoileus virginianus (Zimmermann)--White-tailed Deer

Tricholipeurus lipeuroides (Megnin, 1884)

Trichodectes lipeuroides Megnin, 1884. Le Naturaliste,
62:494, fig.

Eutrichophilus mexicanus Mj8berg, 1910 (nec Rudow,
1866). Ark. Zool, 6:79 and 244, figs. 49, 50, and
137; pl. 4, figs. 1-2.

Eutrichophilus mazama Stobbe, 1913. Dtsch. Ent.

Z., 1913:562 (nn for E. mexicanus Mj8berg, 1910).

Trichodectes virginianus Peters, 1930. Proc. Ent.
Soc. Wash., 32:76, figs. 1-3.

Tricholipeurus parallelus (Osborn, 1896)

Trichodectes parallelus Osborn, 1896. Bull. U. S.

Bur. Ent. (n.s.), 5:240, fig. 148.

Trichodectes odocoilei McGregor, 1917. Ann. Ent.
Soc. Amer., 10:173, pl. 17, fig. 7.

Rangifer tarandus (Linnaeus)--Reindeer

Bovicola tarandi (Mjöberg, 1910)

Trichodectes tarandi Mjöberg, 1910 Ark. Zool, 6:66,
pl. 1, fig. 5 (This species is probably also on the
Caribou).

ARIODACTYLA
Bovidae

The genus Bovicola was discussed previously.

ARIODACTYLA
Bovidae

Bos taurus Linnaeus--Ox

Bovicola bovis (Linnaeus, 1758)

Pediculines bovis Linnaeus, 1758. Syst. Nat.
ed. 10:611.

Pediculines tauri Linnaeus, 1761. Fauna Suecica,
ed. 2:476 (nn for P. bovis Linnaeus, 1758).

Bison bison (Linnaeus)--Bison

Bovicola sedecimdecembrii Eichler, 1946

(Type host: Bison bonasus (Linnaeus))

Bovicola sedecimdecembrii Eichler, 1946. Berlin
Münch. Tierärztl. Wschr., 1946: 44, fig.

Capra hircus Linnaeus--Goat

Bovicola caprae (Gurlt, 1843)*

Trichodectes caprae Gurlt, 1843. Mag. ges. Thierheilk.,
9:3, pl. 1, fig. 2.

Trichodectes climax Nitzsch, 1861. In Giebel, Z. ges.
Nat Wiss., 17:81, pl. 1, figs. 102.

*More common on short-haired goats.

- Trichodectes climacium Giebel, 1861. Z. ges. NatWiss., 18:292 (nn for T. climax Nitzsch, 1861).
- Trichodectes solidus Rudow, 1866. Z. ges. NatWiss., 27:112, pl. 7, fig. 2.
- Trichodectes mambricus Rudow, 1866. Z. ges. NatWiss., 27:111, pl. 6, fig. 2.
- Trichodectes caprae Packard, 1870 (nec Gurlt, 1843). Amer. Nat., 4:96, fig. 8.
- Trichodectes climax truncata Piaget, 1880. Les Pediculines: 393.
- Trichodectes peregrinus Taschenberg, 1882. Nova Acta. Leop.-Carol., 44:218, pl. 7, fig. 10.
- Bovicola crassipes (Rudow, 1866)*
- Trichodectes crassipes Rudow, 1866, Z. ges. NatWiss., 17:111, pl. 7, fig. 1.
- Trichodectes penicillatus Piaget, 1880. Les Pediculines: 406, pl. 32, fig. 10.
- Trichodectes hermsi Kellogg and Nakayama, 1915. Psyche, 22:34, fig. 1.
- Bovicola ibicis Gaschen, 1951. Mitt. Schweiz. Ent. Ges., 24:191, figs. 1-11.
- Bovicola limbatus (Gervais, 1844)**
- Trichodectes limbatus Gervais, 1844. Hist. Ins. Apteres, 3:313, pl. 48, fig. 4.
- Trichodectes climax major Piaget, 1885. Les Pediculines, Supplement: 86, pl. 9, fig. 5.
- Trichodectes madagascariensis Mj8berg, 1910. Ark. Zool., 6:64, figs. 38-39.
- Trichodectes painei Kellogg and Nakayama, 1914. Psyche, 21:90, fig. 1.
- Bovicola sachtlebeni Keler, 1937. Arb. Morph. Tax. Ent. Berlin-Dahlem, 4:314, figs. 1-2.
- Bovicola wernecki Keler, 1937. Arb. Morph. Tax. Ent. Berlin-Dahlem, 4:317 (nn for "Trichodectes limbatus Werneck").

*Known only from Angora goats.

**More common on Angora goats.

Oreamnos americanus (Blainville)--Mountain Goat

Bovicola oreamnidis (Hopkins, 1960)

Damalinia oreamnidis Hopkins, 1960. Bull. Brit. Mus.
(N.H.), Ent., 10:86, t. f. 5: pl. 1, fig. 6.

Ovis canadensis Shaw--Mountain Sheep

Bovicola jellisoni Emerson, 1962

Bovicola jellisoni Emerson, 1962. J. Kansas Ent.
Soc., 35:369, figs. 1, 2, and 4.

Ovis aries Linnaeus--Sheep

Bovicola ovis (Schrank, 1781)

Pediculus ovis Schrank, 1781. Enum. Ins. Austr.

Indig.: 502, pl. 1, figs. 8-9.

Pediculus ovisarietis Schrank, 1803. Fauna

Boica: 187 (nn for P. ovis Schrank, 1781).

Pediculus sphaerocephalus Olfers, 1816. De Veget...,

I:85 (nn for P. ovis Schrank, 1781).

Trichodectes sphaerocephalus Nitzsch, 1818.

Mag. Ent. Germar, 3:296 (nn for P. ovis Schrank,
1781).