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A TENTATIVE LIST OF MALLOPHAGA
FOR
NORTH AMERICAN MAMMALS
(NORTH OF MEXICO)

by
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INTRODUCTION

This volume is designed to serve as a ready reference to the known species of Mallophaga found on mammals of North America (North of Mexico).

Classification for the Mallophaga used here is in accordance with Werneck (1948 and 1950)--"Os Malophagos de Mamiferos".

A different generic classification is contained in Hopkins and Clay (1952)--"A check-list of the genera and species of Mallophaga".

Classification for the mammals 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
- Otter
- Sea Otter
- Jaguar
- Moose
- Caribou
- Pronghorn
- Musk Ox

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. Dr. Ronald A. Ward (Walter Reed Army Institute for Research, Washington, D. C.) is presently revising this genus.

RODENTIA
Geomyidae--Pocket Gophers

Thomomys bottae (Eydoux and Gervais)

Geomydoecus californicus (Chapman, 1897)
Trichoolectes californicus Chapman, 1897.
News, 8: 186, pl. 9, fig. 1.

Geomydoecus minor Werneck, 1950
(Type host: Thomomys baileyi Merriam)

Thomomys pectoralis Goldman

Geomydoecus californicus (Chapman, 1897)
(Type host: Thomomys bottae Eydoux and Gervais)

Thomomys baileyi Merriam

Geomydoecus californicus (Chapman, 1897)
(Type host: Thomomys bottae Eydoux and Gervais)

Geomydoecus minor Werneck, 1950
Geomydoecus chapini minor Werneck, 1950 Malofagos
de Mamiferos, Part 2: 16, figs. 14-16.

RODENTIA
Geomyidae--Pocket Gophers

Thomomys talpoides (Richardson)

Geomydoecus chapini Werneck, 1945

Geomydoecus chapini Werneck, 1945. Mem. Inst. Oswaldo Cruz, 42: 117, fig. 39. (Type host given as Geomys personatus tropicalis Goldman is probably in error).

Geomydoecus thomomyus (McGregor, 1917)

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

Thomomys townsendii (Bachman)

Geomydoecus geomydis (Osborn, 1891)

(Type host: Geomys bursarius (Shaw))

Thomomys monticola J. A. Allen

Geomydoecus thomomyus (McGregor, 1917)

(Type host: Thomomys talpoides (Richardson))

Thomomys bulbivorus (Richardson)

Geomydoecus geomydis (Osborn, 1891)

(Type host: Geomys bursarius (Shaw))

Geomys pinetis Rafinesque

Geomydoecus scleritus (McGregor, 1917)

Trichodectes scleritus McGregor, 1917. Ann. Ent. Soc. Amer., 10: 172, pl. 17, fig. 5.

Geomys colonus Bangs

Geomydoecus scleritus (McGregor, 1917)

(Type host: Geomys pinetis Rafinesque)

Geomys cumberlandius Bangs

Geomydoecus scleritus (McGregor, 1917)

(Type host: Geomys pinetis Rafinesque)

Geomys bursarius (Shaw)

Geomydoecus geomydis (Osborn, 1891)

Trichodectes geomydis Osborn, 1891. Bull. U. S.
Bur. Ent., 7: 54, fig. 42.

Geomydoecus californicus (Chapman, 1897)

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

Geomys arenarius Merriam

Geomydoecus californicus (Chapman, 1897)

(Type host: Thomomys bottae Eydoux and Gervais)

Geomys personatus True

Geomydoecus texanus Ewing, 1936

Geomydoecus texanus Ewing, 1936. Jour. Parasit.,
22: 241.

Geomydoecus truncatus Werneck, 1950

Geomydoecus truncatus Werneck, 1950. Malofagos de
Mamiferos, Part 2: 13, figs. 12-13.

Cratogeomys castanops (Baird)

Geomydoecus geomydis (Osborn, 1891)

(Type host: Geomys bursarius (Shaw))

Geomydoecus texanus Ewing, 1936

(Type host: Geomys personatus True)

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--Porcupine

Erethizon dorsatum (Linnaeus)

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

RODENTIA
Caviidae

The genera Gliricola Mjöberg, 1910 (Zool. Anz., 35: 292);
Gyropus Nitzsch, 1818 (Germar's Mag. Ent., 3: 303); and
Trimenopon Cummings, 1913 (Bull. Ent. Res., 4: 39) are found
on the Guinea Pig and other related mammals native in 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
(n n for P. porcelli Schrank, 1781).
Pediculus bifurcatus Olfers, 1816. De Veget., 1: 83
(n n for P. porcelli Schrank, 1781).
Gyropus gracilis Nitzsch, 1818. Germar's Mag.
Ent., 3: 304 (n n for P. porcelli Schrank, 1781).
Gyropus porcelli perfoliatus Neumann, 1912. Bull.
Soc. 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 (Germar's Mag. Ent. 3: 294) are found worldwide 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. Germar's Mag. Ent., 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

Only one species of Mallophaga has 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 has been 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 has been 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 Mamiferos, 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 n.s.p. Emerson, 1962
(In press Ent. News)

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

Neotrichodectes minutus (Paine, 1912)
(Type host: Mustela frenata Lichtenstein) (This record from Werneck, 1949 needs confirmation).

Gulo luscus (Linnaeus)--Wolverine

Stachiella retusa retusa (Burmeister, 1838)
(Type host: Martes foina (Erxleben)
Trichodectes retusus Burmeister, 1838. Handb. Ent.
2: 436. (This record from Werneck, 1948 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 Mamiferos, 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; Hopkins, 1960 notes that the form is probably subspecifically distinct).)

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 has been 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. Germar's
Mag. Ent., 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 Mjöberg, 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 Mjöberg, 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 found
on the Caribou).

ARIODACTYLA

Bovidae

The genus Bovicola has been 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).

Trichodectes scalaris Nitzsch, 1818. Germar's Mag.
Ent., 3: 296 (nn for P. bovis Linnaeus, 1758).

Bison bison (Linnaeus)--Bison

Bovicola sedecimdecembrii Eichler, 1946

(Type host: Bison bonasus (Linnaeus))

Bovicola sedecimdecembrii Eichler, 1946. Berlin
Munch. 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.
NatWiss., 17: 81, pl. 1, figs. 102.

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

*More common on short-haired goats.

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 Mjoberg, 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 (n n for "Trichodectes
limbatus Werneck").

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 n. sp. Emerson, 1962
(In press. Jour. Kansas Ent. Soc.)

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 (n n for P. ovis Schrank, 1781).
Pediculus sphaerocephalus Olfers, 1816. De Veget...,
I: 85 (n n for P. ovis Schrank, 1781).
Trichodectes sphaerocephalus Nitzsch, 1818. Germar's
Mag. Ent., 3: 296 (n n for P. ovis Schrank, 1781).

*Known only from Angora goats.

**More common on Angora goats.