

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Faculty Publications from the Harold W. Manter
Laboratory of Parasitology

Parasitology, Harold W. Manter Laboratory of

5-2011

Host and Distribution Lists of Chiggers (Trombiculidae and Leeuwenhoekiidae), of North American Wild Vertebrates North of Mexico

Brianne L. Walters

Indiana State University, Brianne.Walters@indstate.edu

John O. Whitaker Jr.

Indiana State University, john.whitaker@indstate.edu

Nicholas S. Gikas

Indiana State University, ngikas@indstate.edu

William J. Wrenn

Orange County Vector Control District, Garden Grove, California, Wwren@ocvcd.org

Follow this and additional works at: <https://digitalcommons.unl.edu/parasitologyfacpubs>



Part of the [Parasitology Commons](#)

Walters, Brianne L.; Whitaker, John O. Jr.; Gikas, Nicholas S.; and Wrenn, William J., "Host and Distribution Lists of Chiggers (Trombiculidae and Leeuwenhoekiidae), of North American Wild Vertebrates North of Mexico" (2011). *Faculty Publications from the Harold W. Manter Laboratory of Parasitology*. 697.
<https://digitalcommons.unl.edu/parasitologyfacpubs/697>

This Article is brought to you for free and open access by the Parasitology, Harold W. Manter Laboratory of at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Faculty Publications from the Harold W. Manter Laboratory of Parasitology by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

HOST AND DISTRIBUTION LISTS OF CHIGGERS (TROMBICULIDAE AND
LEEUVENHOEKIIDAE), OF NORTH AMERICAN WILD VERTEBRATES
NORTH OF MEXICO

BRIANNE L. WALTERS, JOHN O. WHITAKER, JR., NICHOLAS S. GIKAS
*Center for North American Bat Research and Conservation, Department of Biology,
Indiana State University, Terre Haute, Indiana 47809*

and

WILLIAM WRENN
*Orange County Vector Control District, 13001 Garden Grove Boulevard,
Garden Grove, California 92843*

ABSTRACT. - Information concerning chiggers found on wild vertebrates of North America north of Mexico is summarized. Included are lists a) of the chiggers organized taxonomically, b) hosts from which each species has been reported, and c) states and provinces with references for each separate record.

INTRODUCTION

This paper summarizes published information on chiggers found on North American wild vertebrates, including their hosts and their geographic distribution. Chiggers of domestic animals and man are excluded, as are nest records. Included are lists a) of the chiggers organized taxonomically, b) hosts from which each species has been reported, and c) states and provinces with references for each separate record.

Hosts listed only to genus are included only if a chigger was not recorded from a species in that genus. Hosts listed only by common name are omitted except when it is clear which species is involved or if it is the only record for a North American chigger species. This paper is similar to those of Whitaker and Wilson (1974) and Whitaker et al. (2007) for North American mammals.

A chigger bibliography by Goff et al. (1986) was helpful in gathering data. Some general works should be mentioned. Forrester (1992) has summarized information on parasites of Florida mammals. The American Society of Mammalogists has published three monographs with extensive chapters on parasites, one on *Peromyscus* with the chapter on parasites by Whitaker (1968), one on *Microtus* with the chapter by Timm (1985), and one on heteromyid rodents with the chapter by Whitaker et al. (1993). Webb and Loomis (1977) authored a chapter on ectoparasites in a monograph on new world phyllostomid bats. Whitaker and Morales-Malacara (2005) and Hoffmann (1990) summarized information on ectoparasites and chiggers of mammals of Mexico, respectively.

There are a few loose ends in chigger taxonomy. Several papers list new species that were never described (Allred 1962: *Leeuwenhoekinae* sp. "B"; Allred 1963: Chigger sp B³; Allred and Goates 1964: *Trombicula* sp. n. "AB", "BB", "CB", and "DB"; Eads et al. 1965: *Trombicula* n. sp.; Loomis and Wrenn 1973: *Fonsecia* n. sp. *Hyponeocula* n. sp., *Odontacarus* n. sp. and *Parasecia* n. sp.; Loomis et al. 1972: *Fonsecia* n. sp., *Hyponeocula* n. sp., *Odontacarus* n. sp., and *Pseudoschongastia* n. sp.). In addition, *Neotrombicula zapi* was reported in a paper by Whitaker (1979), however this species was never formally described.

THE FAMILIES OF CHIGGERS

Historically chiggers were placed in a single family, the Trombiculidae. Recently however, they have been divided into two families, Trombiculidae and Leeuwenhoekiidae. The “chiggers” themselves are the larval trombiculid and leeuwenhoekiid mites and are short term parasites on their hosts. Many chiggers often occur on specific hosts, but are not host specific. Rather they are habitat specific, i.e. they are most often found on a particular host because their habitat is near the host nest, burrow, etc., not because they are restricted or partial to that particular host. Other hosts in the same habitat may also be infested by the same species of chigger.

There are 12 genera currently recognized in the Leeuwenhoekiidae and 35 in the Trombiculidae in North America north of Mexico. There is great variation in the Trombiculidae, but the Leeuwenhoekiidae are characterized by having leg segmentation 6-6-6 (7-6-6 in some species of *Comatacarus*), scutum has two anteromedial setae and coxa 1 has two setae. There are several chigger keys available including keys to the genera of chiggers of the western hemisphere by Brennan and Goff (1977), keys to the chiggers of North America by Brennan and Jones (1959), and a key to the genus *Euschoengastia* in North America by Wrenn (1987).

Host species are designated as follows: H = herps (reptiles and amphibians), B = birds,
and M = mammals.

LEEUWENHOEKIIDAE

Acomatacarus arizonensis Ewing, 1942 – AZ, CA, KS, NV, TX, UT

- H: *Callisaurus draconoides*, *Chionactis occipitalis*, *Cnemidophorus tigris*,
Coleonyx variegatus, *Crotaphytus collaris*, *C. reticulatus*, *C. wislizeni*,
Dipsosaurus dorsalis, *Gambelia wislizenii*, *Holbrookia texana*, *Phrynosoma*
coronatum, *P. platyrhinos*, *Sceloporus jarrovii*, *S. magister*, *S. merriami*, *S.*
occidentalis, *S. orcutti*, *Urosaurus graciosus*, *Uta stansburiana*
- M: *Neotoma lepida*, *Perognathus formosus*
- A. brevicealcar* Brennan and Jones, 1954 – CA
- M: *Perognathus californicus*
- A. polychaetus* Greenberg, 1952 – AR
- M: *Peromyscus leucopus*
- A. whartoni* Greenberg, 1952 – AR
- M: *Sylvilagus floridanus*
- Albeckia albecki* Vercammen-Grandjean and Watkins, 1966 – CA, SD
- M: *Antrozous pallidus*, *Myotis ciliolabrum*
- A. senase* (Greenberg, 1952) – AL, KS, OK, OR, TX
- M: *Antrozous pallidus*, *Corynorhinus townsendii*, *Eptesicus fuscus*, *Myotis velifer*,
Neotoma micropus, *Parastrellus hesperus*
- Chatia cunninghamae* Goff and Loomis, 1980 – WA
- M: *Tamiasciurus douglasii*
- C. setosa* Brennan, 1946 – CA, ID, MT, OR, UT
- M: *Marmota flaviventer*, *Neotoma cinerea*, *N. fuscipes*, *Ochotona princeps*,
Peromyscus maniculatus, *Spermophilus lateralis*, *Tamias townsendii*,
Tamiasciurus hudonicus

Comatacarus inconspicuus Reed, 1973 – UT

M: *Peromyscus maniculatus*

C. pusillus Goff and Loomis, 1974 – CO, KS

M: *Neotoma cinerea*, *Peromyscus maniculatus*, *Reithrodontomys megalotis*

C. stewarti (Gould, 1956) – CA, TX

M: *Neotoma lepida*, *Perognathus californicus*, *Peromyscus pectoralis*

Hannemania bufonis Loomis and Welbourn, 1969 – AZ, CA, TX

H: *Bufo punctatus*

H. dunni Sambon 1928 – AR, KS, OK, NC, WV

H: *Acris gryllus*, *Ambystoma maculatum*, *A. opacum*, *Desmognathus fuscus*,

Eurycea cirrigera, *E. gutto-lineata*, *Plethodon caddoensis*, *P. cylindraceus*, *P.*

glutinosus, *P. ouachitae*, *Pseudotriton montanus*, *Rana palustris*

H. eltoni Sambon, 1928 – KS, TX

H: *Acris crepitans*, *A. gryllus*, *Ambystoma tigrinum*, *Bufo woodhousii*, *Rana*

pipiens, *R. sphenoccephala*

H. hegneri Hyland, 1956 – FL, GA

H: *Acris crepitans*, *Rana pipiens*

H. hylae (Ewing, 1925) – AZ, CA, TX, UT

H: *Eleutherodactylus guttillatus*, *Hyla arenicolor*, *H. cadaverina*, *Syrnhophus*

guttulatus

H. mexicana Hoffmann, 1965 – TX

H: *Rana pipiens*

H. monticola Welbourn and Loomis, 1970 – TX

H: *Eleutherodactylus marnockii*

H. multifemoralis Loomis, 1956 – AK, AR, KS, MO, NB, NE, OK, TX

H: *Acris gryllus*, *Bufo terrestris*, *B. woodhousii*, *Gastrophryne olivacea*,
Microhyla olivacea, *Rana pipiens*

H. ochotona Radford, 1942 – MT

M: *Ochotona princeps*

H. penetrans Ewing 1931 – NC, VA

H: *Bufo fowleri*, *Rana catesbiana*, *R. pipiens*, *R. sphenoccephala*

Leeuwenhoekia americana (Ewing, 1942) – CA, CO, GA, ID, IN, KS, MS, NV, ON, OR,
 SC, TN

M: *Blarina brevicauda*, *B. carolinensis*, *Dipodomys ordii*, *Microtus californicus*,
M. montanus, *Myodes occidentalis*, *Neotoma cinerea* *N. fuscipes*, *N. lepida*, *N. mexicana*, *Peromyscus leucopus*, *P. maniculatus*, *Reithrodontomys megalotis*,
Scapanus sp., *Sorex hoyi*, *S. pacificus*, *S. trowbridgii*, *S. vagrans* ,
Spermophilus beecheyi, *Tamias striatus*, *Thomomys bottae*

L. dolosa Gould, 1956 – CA, ID

M: *Mus musculus*, *Peromyscus californicus*, *P. maniculatus*, *Tamiasciurus hudsonicus*, *Thomomys bottae*

Odontacarus cayolargoensis Brennan, 1959 – FL, TX

M: *Liomys irroratus*, *Peromyscus leucopus*, *Sigmodon hispidus*

O. chiapanensis (Hoffmann, 1948) – NV

M: *Neotoma lepida*

O. dentatus (Ewing, 1925) – KS, TX

- M: *Chaetodipus hispidus*, *Cynomys ludovicianus*, *Lepus californicus*, *Odocoileus virginianus*, *Peromyscus maniculatus*, *Sylvilagus audubonii*, *S. floridanus*
- O. hirsutus* (Ewing, 1931) – CA, NV, UT
- M: *Aplodontia rufa*, *Bassariscus astutus*, *Dipodomys venustus*, *Microtus californicus*, *Mus musculus*, *Neotoma cinerea*, *N. fuscipes*, *N. lepida*, *Perognathus californicus*, *Peromyscus boylii*, *P. maniculatus*, *Spermophilus beecheyi*, *S. lateralis*, *Sylvilagus nuttalli*, *Tamias sp.*, *Thomomys bottae*
- O. kromani* Goff and Loomis, 1973 – CA
- M: *Neotoma lepida*
- O. linsdalei* (Brennan & Jones, 1954) – CA, ID, NV, UT
- H: *Coluber taeniatus*, *Pituophis catenifer*
- M: *Dipodomys agilis*, *D. ordii*, *D. microps*, *Neotoma lepida*, *Onychomys torridus*, *Perognathus californicus*, *P. formosus*, *P. longimembris*, *P. parvus*, *Peromyscus maniculatus*, *Spermophilus beecheyi*
- O. micheneri* (Greenberg, 1952) – CO, ID, NV, UT
- H: *Sceloporus occidentalis*
- M: *Dipodomys ordii*, *Neotoma cinerea*, *N. lepida*, *Onychomys torridus*, *Perognathus parvus*, *Sylvilagus sp.*
- O. morlani* Brennan, 1959 – NM, TX
- M: *Neotoma albigula*, *N. micropus*, *Peromyscus leucopus*
- O. pinnatus* Goff and Loomis, 1977 – TX
- H: *Cnemidophorus tigris*, *Cophosaurus texanus*, *Crotaphytus collaris*, *C. reticulatus*, *Phrynosoma modestum*, *Uta stansburiana*

O. shawi Brennan, 1959 – CA

H: *Coleonyx variegates*, *Masticophis flagellum*, *Phyllorhynchus decurtatus*

O. villosus Goff and Loomis, 1973 – CA

M: *Peromyscus boylii*, *P. maniculatus*

Sasacarus whartoni (Hoffmann, 1951) – CA, NV, TX

M: *Dipodomys merriami*, *D. microps*, *Neotoma albigula*, *N. lepida*, *N. micropus*,
Perognathus sp., *Peromyscus eremicus*, *P. pectoralis*

Shunsennia ochotona (Radford, 1942) – CA, ID, MT, UT

M: *Corynorhinus townsendii*, *Microtus longicaudus*, *Myodes californicus*, *M.*
occidentalis, *Neotoma cinerea*, *Ochotona schisticeps*, *Peromyscus boylii*, *P.*
maniculatus, *Sorex trowbridgii*

Wagenaaria similis Brennan, 1967 – TX

M: *Mormoops megalophylla*

Whartonia carpenteri (Brennan, 1962)

M: *Antrozous pallidus*, *Parastrellus hesperus*

W. glenni Vercammen-Grandjean, Watkins and Beck, 1965 – CA

M: *Macrotus californicus*

W. perplexa (Brennan, 1947) – AZ, CA, MT, NV, OR, TX, UT

M: *Antrozous pallidus*, *Eptesicus fuscus*, *Myotis californicus*, *M. velifer*,
Parastrellus hesperus

Xenodontacarus brevicealcar (Brennan and Jones, 1954) – CA

M: *Perognathus californicus*, *Peromyscus crinitus*

X. plumosus Greenberg, 1951 – KS, SD, TX

M: *Dipodomys ordii*, *Liomys irroratus*, *Neotoma micropus*, *Peromyscus leucopus*,
P. maniculatus, *Sylvilagus floridanus*

TROMBICULIDAE

Acariscus hominis (Ewing, 1933) – AL, FL

B: *Sturnella magna*, *Toxostoma rufum*

Aplodontophila aplodontiae Brennan, 1946 – CA, OR, WA

M: *Aplodontia rufa*, *Mustela frenata*

A. pacifica Wrenn and Maser, 1981 – OR

M: *Aplodontia rufa*

Beamerella acutascuta Brennan, 1958 – TX

M: *Mormoops megalophylla*

Blankaartia pauli Crossley and Atyeo, 1972 – AL, FL

B: *Rallus longirostris*

B. sinnamayri (Floch and Fauran, 1956) – FL, TX

B: *Dumetella carolinensis*, *Grus canadensis*, *Hylocichla mustelina*

Cheladonta crossi Lipovsky, Crossley, and Loomis, 1955 – UT

M: *Peromyscus maniculatus*

C. micheneri Lipovsky, Crossley, and Loomis, 1955 – KS, NE, TX

M: *Chaetodipus hispidus*, *Cynomys ludovicianus*, *Mus musculus*, *Neotoma
floridana*, *Perognathus hispidus*, *Peromyscus leucopus*, *P. maniculatus*,
Sciurus carolinensis, *Sylvilagus floridanus*

C. ouachitensis Lipovsky, Crossley, and Loomis, 1955 – AR, FL, IN, NC

M: *Cryptotis parva*, *Neotoma floridana*, *Sorex cinereus*, *S. fumeus*, *S. palustris*
Chiroptella mexicana (Ewing, 1937) – AZ, NM, TX

M: *Myotis velifer*, *Tadarida brasiliensis*

Digenualaea carterae (Brennan and Wharton, 1950) – NC

M: *Peromyscus leucopus*, *P. maniculatus*

Durmadelema furmani (Gould, 1956) – AZ, CA, NV, TX, UT

M: *Ammospermophilus leucurus*, *Dipodomys agilis*, *D. deserti*, *D. merriami*, *D. microps*, *D. panamintinus*, *D. stephensi*, *Neotoma albigula*, *N. lepida*, *Onychomys torridus*, *Perognathus baileyi*, *P. californicus*, *P. fallax*, *P. formosus*, *P. furmani*, *P. longimembris*, *P. penicillatus*, *P. spinatus*, *Peromyscus crinitus*, *P. eremicus*, *P. maniculatus*, *P. truei*, *Reithrodontomys megalotis*, *Spermophilus beecheyi*, *S. leucurus*, *Tamias sp.*, *Thomomys bottae*

D. lynnae Pomeroy and Loomis, 1984 – CA, NM, TX

M: *Dipodomys merriami*, *Perognathus longimembris*

D. mojavnense Pomeroy and Loomis, 1984 – CA

M: *Dipodomys heermanni*, *D. merriami*, *D. nitratoides*, *D. panamintinus*, *Neotoma lepida*, *Onychomys torridus*, *Perognathus fallax*, *P. formosus*, *P. longimembris*, *Peromyscus eremicus*

D. sleeperi Pomeroy and Loomis, 1984 – CA

M: *Dipodomys merriami*, *D. microps*, *D. panamintinus*, *Perognathus formosus*, *P. longimembris*, *Thomomys bottae*

Euschoengastia ambocalis Wrenn and Loomis, 1973 – CA

M: *Ammospermophilus leucurus*, *Dipodomys agilis*, *D. merriami*, *Microtus californicus*, *Neotoma fuscipes*, *N. lepida*, *Onychomys torridus*, *Perognathus californicus*, *P. fallax*, *Peromyscus boylii*, *P. californicus*, *P. crinitus*, *P. eremicus*, *P. maniculatus*, *P. truei*, *Reithrodontomys megalotis*, *Tamias speciosus*

E. americana Ewing, 1938 – CA, ID

M: *Tamias sp.*

E. blarinae (Ewing, 1931) – DC, MI, MN, NB, NC, NJ, NY, ON, PA, SC, VA

M: *Blarina brevicauda*, *Microtus chrotorrhinus*, *Myodes gapperi*, *Peromyscus leucopus*, *P. maniculatus*, *Sorex cinereus*, *S. fumeus*, *S. longirostris*, *S. palustris*

E. brennani Wrenn and Loomis, 1974 – CA, OR

M: *Microtus longicaudus*, *Neotoma fuscipes*, *Ochotona princeps*, *Peromyscus boylii*, *P. maniculatus*, *P. truei*, *Rattus rattus*

E. carolinensis Farrell, 1956 – NC

M: *Microtus pinetorum*, *Peromyscus leucopus*

E. campi Brown and Brennan, 1952 – AB

M: *Spermophilus richardsoni*

E. chisosensis Loomis, Baccus, and Wrenn, 1972- TX

M: *Peromyscus boylii*, *P. pectoralis*

E. citellicola Gould, 1956 – CA

M: *Spermophilus beldingi*, *S. lateralis*

E. cordiremus Brennan, 1948 – CA, ID, MT, NV, UT

- M: *Dipodomys ordii*, *Marmota sp.*, *Ochotona sp.*, *Perognathus parvus*,
Peromyscus maniculatus, *Spermophilus beldingi*, *S. lateralis*
- E. crateris* Farrell, 1956 – PA
- M: *Myodes gapperi*, *Peromyscus leucopus*, *P. maniculatus*
- E. criceticola* Brennan, 1948 – AB, CA, CO, ID, KS, MT, NV, SD, TX, UT
- M: *Cynomys ludovicianus*, *Dipodomys ordii*, *D. venustus*, *Microtus californicus*,
M. pennsylvanicus, *Mus musculus*, *Neotoma albigula*, *N. cinerea*, *N. floridana*,
N. fuscipes, *N. lepida*, *N. mexicana*, *N. micropus*, *Ochotona princeps*,
Onychomys torridus, *Perognathus boylii*, *P. californicus*, *P. formosus*,
P. parvus, *Peromyscus boylii*, *P. californicus*, *P. difficilis*, *P. eremicus*,
P. leucopus, *P. maniculatus*, *P. pectoralis*, *P. truei*,
Reithrodontomys megalotis, *Scapanus latimanus*, *Sigmodon ochrognathus*,
Sorex beecheyi, *S. ornatus*, *S. tenellus*, *Spermophilus armatus*, *S. beecheyi*, *S. lateralis*,
Tamias minimus, *Thomomys bottae*
- E. cynomyicola* Crossley and Lipovsky, 1954 – KS, NE, UT
- M: *Cynomys ludovicianus*, *Perognathus hispidus*, *Spermophilus spilosoma*, *S. tridecemlineatus*
- E. decipiens* Gould, 1956 – CA, CO, ID, NM, NV, TX, UT
- B: *Bubo virginianus*, *Zonotrichia leucophrys*
- M: *Chaetodipus hispidus*, *Dipodomys elator*, *D. elephantinus*, *D. merriami*, *D. microps*,
D. ordii, *D. panamintinus*, *Erethizon dorsatum*, *Lepus californicus*,
Neotoma cinerea, *N. lepida*, *N. mexicana*, *Perognathus flavus*, *P. formosus*, *P. longimembris*,
P. parvus, *Peromyscus crinitus*, *P. eremicus*, *P. maniculatus*,

P. truei, *Spermophilus lateralis*, *Sylvilagus audubonii*, *S. idahoensis*, *S. nuttalli*, *Tamias*, *minimus*, *Thomomys talpoides*

E. diversa Loomis, 1956 – IA, IL, KS, OH, PA

B: *Cardinalis cardinalis*, *Parus atricapillus*, *Passer domesticus*

M: *Blarina brevicauda*, *Canis latrans*, *Geomys bursarius*, *Microtus ochrogaster*,
M. pennsylvanicus, *M. pinetorum*, *Mus musculus*, *Myodes gapperi*,
Napeozapus insignis, *Neotoma floridana*, *N. magister*, *Peromyscus leucopus*,
P. maniculatus, *Rattus norvegicus*, *Reithrodontomys megalotis*, *Sciurus niger*,
Sigmodon hispidus, *Sylvilagus floridanus*, *Synaptomys cooperi*, *Zapus hudsonius*

E. eadsi Loomis and Crossley, 1963 – TX

M: *Bassariscus astutus*, *Lepus californicus*, *Sylvilagus auduboni*

E. enemi Brennan and Jones, 1954 – CA

M: *Perognathus californicus*

E. fassola Brennan and Beck, 1955 – ID, NV, SD, UT

M: *Neotoma lepida*, *Perognathus parvus*, *Reithrodontomys megalotis*, *Tamias dorsalis*, *T. minimus*

E. finleyi Crossley, 1955 – CO

M: *Neotoma cinerea*, *N. lepida*, *N. mexicana*

E. frondifera Gould, 1956 – CA

M: *Neotoma lepida*, *Peromyscus californicus*, *P. maniculatus*

E. guntheri (Radford, 1942) – CO

M: *Neotoma cinerea*, *Ochotona princeps*

E. hamiltoni Brennan, 1947 – AL, IN, NY, ON, VA, WV

M: *Eptesicus fuscus*, *Myotis lucifugus*, *M. subulatus*

E. hardyorum Wrenn and Somerby, 1974 – CA

M: *Dipodomys merriami*, *D. microps*, *Perognathus formosus*, *Thomomys umbrinus*

E. heteromyicola Wrenn and Loomis, 1974 – CA, NV

M: *Dipodomys agilis*, *D. merriami*, *D. microps*, *D. panamintinus*, *D. stephensi*,
Neotoma fuscipes, *Perognathus californicus*, *P. formosus*, *P. longimembris*,
Peromyscus maniculatus, *P. truei*, *Sylvilagus audubonii*

E. hoffmannae Gould, 1956 – CA, CO, UT

M: *Neotoma mexicana*, *Ochotona princeps*, *Sceloporus occidentalis*,
Spermophilus lateralis

E. jamesoni (Brennan 1948) – IN, NC, NY, ON, PA, SC, TN, WV

M: *Blarina brevicauda*, *Sorex cinereus*, *S. dispar*, *S. fumeus*, *S. hoyi*, *Tamias striatus*

E. jonesi Lipovsky and Loomis, 1954 – KS, MO, OK

M: *Blarina brevicauda*, *Cryptotis parva*, *Myotis velifer*, *Neotoma micropus*,
Peromyscus leucopus, *P. maniculatus*, *Sciurus carolinensis*, *Sorex cinereus*, *S. fumeus*, *S. palustris*, *Sylvilagus floridanus*

E. lanceolata Brennan and Beck, 1955 – UT

M: *Neotoma lepida*, *Peromyscus eremicus*

E. lanei Brennan and Beck, 1955 – CO, ID, NV, UT

- M: *Ochotona princeps*, *Peromyscus maniculatus*, *P. truei*, *Reithrodontomys megalotis*
- E. latchmani* Brennan and Yunker, 1964 – CA
- B: *Zonotrichia coronata*
- M: *Lepus californicus*, *Odocoileus hemionus*
- E. luteodema* Brennan, 1948 – CA, ID, MT, UT
- M: *Lepus californicus*, *Marmota flaviventris*, *Peromyscus maniculatus*,
Spermophilus columbianus, *S. lateralis*, *Tamiasciurus hudsonicus*
- E. magna* Farrell, 1956 – PA
- M: *Myodes gapperi*, *Neotoma magister*
- E. marginalis* Wrenn and Somerby, 1974 – CA
- M: *Dipodomys merriami*, *D. panamintinus*, *Neotoma fuscipes*, *N. lepida*,
Perognathus fallax, *Peromyscus eremicus*, *P. truei*
- E. marmotae* Farrell, 1956 – IN, NJ, PA
- M: *Marmota monax*
- E. maseri* Wrenn, 1983 – OR
- M: *Aplodontia rufa*
- E. micheneri* Gould, 1956 – CA
- M: *Rattus norvegicus*, *Spermophilus beecheyi*
- E. michiganensis* Wrenn, 1974 – MI, PA
- M: *Microtus pennsylvanicus*, *Spermophilus tridecemlineatus*, *Tamias striatus*,
Tamiasciurus hudsonicus
- E. miricoxa* Brennan, 1948 – NY

- M: *Myotis lucifugus*
- E. nihi* Brennan and Jones, 1954 – CA
- M: *Perognathus californicus*, *Spermophilus beecheyi*
- E. numerosa* Wrenn and Loomis, 1974 – CA, ID, MT, OR, TX, UT
- B: *Aphelocoma coerulescens*, *Bubo virginianus*, *Carpodacus purpureus*, *Junco caniceps*, *Lophortyx californica*, *Oreortyx picta*, *Toxostoma redivivum*,
Zonotrichia coronata
- M: *Dipodomys merriami*, *Lepus californicus*, *L. townsendi*, *Neotoma albigula*, *N. cinerea*, *Ochotona princeps*, *Odocoileus hemionus*, *O. virginianus*, *Sigmodon ochrognathus*, *Sylvilagus bachmani*, *Tamiasciurus douglasii*, *Urocyon cinereoargenteus*
- E. obesa* Brennan and Beck, 1955 – NV, UT
- M: *Cynomys leucurus*, *Neotoma lepida*, *Perognathus formosus*, *Peromyscus maniculatus*
- E. obscura* Wrenn and Loomis, 1974 – CA
- M: *Dipodomys merriami*, *D. stephensi*, *Neotoma fuscipes*, *N. lepida*, *Perognathus fallax*, *P. formosus*, *P. longimembris*, *Peromyscus eremicus*, *P. truei*
- E. ohioensis* Farrell, 1956 – IL, IN, NJ, NY, OH, PA
- M: *Microtus chrotorrhinus*, *M. pinetorum*, *Myodes gapperi*, *Sorex cinereus*,
Synaptomys cooperi
- E. oregonensis* (Ewing, 1929) – AB, CA, ID, OR, UT
- B: *Salpinctes obsoletus*

M: *Glaucomys sabrinus*, “Mole,” *Microtus californicus*, *M. longicaudus*, *M. montanus*, *M. oregoni*, *Myodes occidentalis*, *Neotoma cinerea*, *Neurotrichus gibbsii*, *Ochotona princeps*, *Perognathus parvus*, *Peromyscus maniculatus*, *Sorex obscurus*, *S. pacificus*, *S. palustris*, *S. trowbridgii*, *S. vagrans*, *Spermophilus beldingi*, *S. lateralis*, *S. richardsoni*, *Tamias quadrivittatus*, *T. townsendi*, *Tamiasciurus douglasii*

E. otophila Loomis and Bunnell, 1962 – CA

M: *Peromyscus californicus*

E. peromysci (Ewing, 1929) – CA, CO, DE, FL, GA, IL, IN, KS, KY, MA, MD, MI, MS, NC, NJ, NY, OH, OK, OR, PA, SC, TN, WI, WV

B: *Corvus brachyrhynchos*

M: *Blarina brevicauda*, *Glaucomys sabrinus*, *Marmota monax*, *Microtus californicus*, *M. chrotorrhinus*, *M. longicaudus*, *M. ochrogaster*, *M. pennsylvanicus*, *M. pinetorum*, *Mus musculus*, *Mustela frenata*, *M. nivalis*, *Myodes gapperi*, *M. occidentalis*, *Napaeozapus insignis*, *Neotoma cinerea*, *N. floridana*, *N. fuscipes*, *N. magister*, *Ochrotomys nuttalli*, *Ondatra zibethicus*, *Oryzomys palustris*, *Peromyscus boylii*, *P. californicus*, *P. floridanus*, *P. gossypinus*, *P. leucopus*, *P. maniculatus*, *P. nuttalli*, *P. polionotus*, *P. truei*, *Rattus norvegicus*, *R. rattus*, *Reithrodontomys humulis*, *R. megalotis*, *Sciurus carolinensis*, *Sigmodon hispidus*, *Sorex cinereus*, *S. fumeus*, *S. palustris*, *S. trowbridgii*, *Sylvilagus floridanus*, *Synaptomys cooperi*, *Tamias striatus*, *T. townsendii*, *Tamiasciurus hudsonicus*, *Zapus hudsonius*, *Z. pacificus*

E. pipistrelli Brennan, 1947 – AL, AR, IL, IN, KS, KY, MO, NJ, NY, OH, OK, PA, SC,
SD, TN, WV

M: *Eptesicus fuscus*, *Myotis austroriparius*, *M. grisescens*, *M. lucifugus*, *M.*
septentrionalis, *M. sodalis*, *Perimyotis subflavus*

E. pomerantzi Brennan and Jones, 1954 –CA, ID, OR, UT

M: *Microtus californicus*, *Mus musculus*, *Neotoma cinerea*, *N. fuscipes*,
Perognathus californicus, *Peromyscus boylii*, *P. californicus*, *P. maniculatus*,
P. truei, *Spermophilus beecheyi*, *S. lateralis*, *Tamias minimus*, *Tamiasciurus*
douglasii

E. puerilis Gould, 1956 – CA

M: *Scapanus latimanus*

E. radfordi Brennan and Jones, 1954 – CA, ID, NV, TX, UT

B: *Amphispiza belli*, *Carpodacus purpureus*, *Centrocercus urophasianus*,
Chordeiles minor, *Eremophila alpestris*, *Junco caniceps*, *J. oreganus*, *Lanius*
ludovicianus, *Leucosticte tephrocotis*, *Lophortyx californica*, *Melospiza*
melodia, *Oreortyx picta*, *Parus inornatus*, *Pipilo fuscus*, *P. maculatus*,
Toxostoma redivivum, *Zonotrichia coronata*, *Z. leucophrys*

M: *Dama hemionus*, *Dipodomys merriami*, *D. microps*, *D. ordii*, *D. venustus*,
Erethizon dorsatum, *Lepus californicus*, *Marmota flaviventris*, *Microtus*
californicus, *M. longicaudus*, *Mus musculus*, *Myodes californicus*, *M.*
occidentalis, *Neotoma cinerea*, *N. fuscipes*, *N. lepida*, *Neurotrichus gibbsii*,
Ochotona princeps, *Odocoileus hemionus*, *Perognathus californicus*, *P.*
formosus, *P. parvus*, *Peromyscus boylii*, *P. californicus*, *P. eremicus*, *P.*

maniculatus, *P. truei*, *Reithrodontomys megalotis*, *Sciurus griseus*, *Sigmodon ochrogathus*, *Spermophilus beecheyi*, *S. beldingi*, *S. lateralis*, *Sylvilagus auduboni*, *S. bachmanni*, *S. idahoensis*, *S. nuttalli*, *Tamias townsendi*, *Tamiasciurus douglasii*, *Thomomys bottae*, *Zapus princeps*

E. romola Brennan and Jones, 1954 – CA

M: *Dipodomys venustus*, *Perognathus californicus*, *Spermophilus beecheyi*

E. rotunda Brennan and Beck, 1955 – UT

M: *Ochotona princeps*

E. rubra Farrell, 1956 – NC

M: *Napaeozapus insignis*, *Peromyscus leucopus*, *P. nuttalli*, *Sylvilagus floridanus*

E. samboni (Radford, 1942) – MT

M: *Myodes* sp., *Ocotona princeps*

E. sciruicola (Ewing, 1925) – AB, BC, CA, ID, MT, OR, UT

M: *Glaucomys sabrinus*, *Lepus californicus*, *Marmota flaviventris*, *Ochotona princeps*, *Peromyscus maniculatus*, *Phenacomys intermedius*, *Spermophilus armatus*, *S. beecheyi*, *S. lateralis*, *S. variegatus*, *Tamias amoenus*, *T. minimus*, *T. townsendii*, *T. umbrinus*, *Tamiasciurus hudsonicus*

E. setosa (Ewing, 1937) – AR, GA, IN, KS, MA, MD, MI, MT, NB, NC, NH, NJ, NY, PA, QC, SD, TN, WI, WV

M: *Cryptotis parva*, *Microtus chrotorrhinus*, *M. ochrogaster*, *M. pennsylvanicus*, *Myodes gapperi*, *Napaeozapus insignis*, *Neotoma cinerea*, *N. floridana*, *N. micropus*, *Oryzomys palustris*, *Peromyscus gossypinus*, *P. leucopus*, *P.*

maniculatus, *Sciurus carolinensis*, *S. niger*, *Sorex cinereus*, *Sylvilagus floridanus*, *Synaptomys cooperi*, *Tamias striatus*, *Tamiasciurus hudsonicus*

E. simulans Wrenn and Loomis, 1974 – CA, OR

M: *Dipodomys merriami*, *D. panamintinus*, *Neotoma fuscipes*, *N. lepida*,
Perognathus fallax, *Peromyscus boylii*, *P. californicus*, *P. crinitus*, *P.*
eremicus, *P. maniculatus*, *P. truei*, *Tamiasciurus douglasii*

E. soricinus Gould, 1956 – CA, UT

M: *Ochotona princeps*, *Sorex palustris*, *S. trowbridgii*

E. staffordi Brennan and White, 1960 – AL

M: *Eptesicus fuscus*, *Perimyotis subflavus*

E. trigenuala Loomis, 1956 – GA, IL, IN, KS, MO, OK

M: *Blarina brevicauda*, *Geomys bursarius*, *Microtus ochrogaster*, *Onychomys leucogaster*, *Perognathus hispidus*, *Peromyscus maniculatus*, *Scalopus aquaticus*, *Sciurus niger*, *Sigmodon hispidus*, *Tamias striatus*

E. utahensis Brennan and Beck, 1955 – NV, UT

M: *Neotoma lepida*, *Perognathus formosus*

E. velata Brennan and Yunker, 1966 – MT

M: *Neotoma cinerea*

E. whitakeri Wrenn, 1984 – IN

M: *Sorex fumeus*

Euschoengastoides arizonae Loomis, 1971 – AZ, CA, NM, TX

M: *Dipodomys deserti*, *D. merriami*, *D. ordii*, *D. spectabilis*, *Neotoma albigula*,
N. lepida, *Onychomys torridus*, *Pappogeomys castanops*, *Perognathus*

amplus, *P. baileyi*, *P. flavus*, *P. formosus*, *P. intermedius*, *P. merriami*, *P. nelsoni*, *P. penicillatus*, *P. spinatus*, *Peromyscus boylii*, *P. maniculatus*,
Sigmodon hispidus, *Thomomys bottae*

E. eadsi (Loomis and Crossley, 1963) – TX

M: *Sylvilagus auduboni*

E. hoplai (Loomis, 1954) – KS, NM, TX, UT

M: *Antrozous bunkerii*, *Cynomys ludovicianus*, *Dipodomys merriami*, *Neotoma albigula*, *N. lepida*, *N. mexicana*, *N. micropus*, *Perognathus apache*, *P. hispidus*, *P. merriami*, *P. nelsoni*, *P. parvus*, *P. penicillatus*, *Peromyscus leucopus*, *P. truei*, *Spermophilus leucurus*, *S. spilosoma*, *S. tridecemlineatus*,
Sylvilagus floridanus

E. imperfectus (Brennan and Jones, 1954) – AZ, CA, NM, TX

M: *Ammospermophilus leucurus*, *Dipodomys merriami*, *D. spectabilis*,
Perognathus baileyi, *P. californicus*, *P. flavus*, *P. formosus*, *P. longimembris*,
P. penicillatus, *P. spinatus*, *Peromyscus eremicus*, *P. maniculatus*

E. longitarsala (Powder and Loomis, 1962) – CA

H: *Crotaphytus collaris*, *C. wislizeni*, *Dipsosaurus dorsalis*, *Phrynosoma coronatum*, *P. platyrhinos*, *Sceloporus magister*, *S. occidentalis*, *Uta stansburiana*

E. loomisi (Crossley and Lipovsky, 1954) – KS, OK, TX

M: *Cynomys ludovicianus*, *Dipodomys merriami*, *D. ordii*, *Liomys irroratus*,
Neotoma albigula, *N. micropus*, *Onychomys sp.*, *Perognathus flavus*, *P. hispidus*, *P. merriami*, *P. nelsoni*, *P. penicillatus*, *Peromyscus eremicus*, *P.*

leucopus, *P. maniculatus*, *P. pectoralis*, *Reithrodontomys* sp., *Sigmodon hispidus*, *S. ochrognathus*, *Sylvilagus floridanus*

E. neotomae Loomis 1971 – AZ, CA, CO, KS, NM, TX, UT

M: *Ammospermophilus leucurus*, *Antrozous pallidus*, *Dipodomys merriami*, *D. spectabilis*, *Neotoma albigula*, *N. lepida*, *N. mexicana*, *N. micropus*, *Onychomys leucogaster*, *Parastrellus hesperus*, *Perognathus apache*, *P. californicus*, *P. crinitus*, *P. fallax*, *P. formosus*, *P. nelsoni*, *P. penicillatus*, *Peromyscus boylii*, *P. eremicus*, *P. leucopus*, *P. maniculatus*, *P. pectoralis*, *P. truei*, *Reithrodontomys megalotis*, *Sigmodon hispidus*, *Spermophilus beecheyi* (nr.)

E. similis Loomis, Baccus, and Wrenn, 1972 – TX

M: *Dipodomys merriami*, *Neotoma albigula*, *N. micropus*, *Perognathus merriami*, *P. nelsoni*, *P. penicillatus*, *Peromyscus eremicus*, *P. pectoralis*

E. sleeperi Loomis, Baccus, and Wrenn, 1972 – TX

M: *Dipodomys merriami*, *Peromyscus eremicus*, *Reithrodontomys megalotis*

E. tanigoshi Loomis, 1971 – NM

M: *Neotoma albigula*, *Perognathus penicillatus*

E. tumidus Loomis, 1971 – AZ, NM

M: *Neotoma* sp., *Peromyscus boylii*

E. webbi Loomis, 1971 – AZ, CA

M: *Perognathus penicillatus*, *Peromyscus crinitus*, *P. eremicus*

Eutrombicula alfreddugesi (Oudemans, 1910) – AL, AR, CA, CO, DE, FL, GA, IL, IN, KS, MA, MI, MN, NC, NE, NY, OH, OK, SC, SD, TN, TX

H: *Acris gryllus*, *Agkistrodon contortrix*, *A. mokasen*, *Anolis carolinensis*, *Bufo terrestris*, *B. woodhousii*, *Cnemidophorus gularis*, *C. inornatus*, *C. sacki*, *C. sexlineatus*, *C. tessellatus*, *C. tigris*, *Coluber constrictor*, *Crotalus atrox*, *C. horridus*, *C. molossus*, *C. viridus*, *Crotaphytus collaris*, *C. reticulatus*, *Diadophis punctatus*, *Drymarchon corais*, *Elaphe guttata*, *E. obsoleta*, *E. subocularis*, *E. vulpine*, *Eumeces brevilineatus*, *E. fasciatus*, *E. laticeps*, *E. obsoletus*, *Gerrhonotus liocephalus*, *Gopherus berlandieri*, *G. polyphemus*, *Heterodon contortix*, *H. nasicus*, *H. platyrhinos*, *H. simus*, *Holbrookia maculata*, *H. texana*, *Kinosternon subrubrum*, *Lampropeltis calligaster*, *L. getulus*, *L. triangulum*, *Masticophis flagellum*, *M. taeniatus*, *Natrix erythrogaster*, *N. rhombifer*, *N. sipedon*, *Opheodrys aestivus*, *Ophisaurus attenuatus*, *Phrynosoma cornuta*, *P. modestum*, *Pituophis catenifer*, *P. melanoleucus*, *Rana palustris*, *R. pipiens*, *Salvadora hexalepis*, *Sceloporus magister*, *S. merriami*, *S. olivaceus*, *S. poinsettia*, *S. undulatus*, *Sonora episcopa*, *Terrapene carolina*, *T. ornata*, *Thamnophis cyrtopsis*, *T. marcianus*, *T. radix*, *T. sauritus*, *T. sirtalis*, *Tropidoclonion lineatum*, *Urosaurus ornatus*, *Uta stansburiana*

B: *Agelatus phoeniceus*, *Amphispiza bilineata*, *Antrostomus carolinensis*, *Baeolophus bicolor*, *Bartramia longicauda*, *Buteo jamaicensis*, *Calamospiza melanocorys*, *Cardinalis cardinalis*, *Chondestes grammacus*, *Coccyzus americanus*, *Colaptes auratus*, *Colinus virginianus*, *Coragyps virginianus*, *Corvus brachyrhynchos*, *Cyanocitta cristata*, *Dryobates villosus*, *Dumatella carolinensis*, *Eremophila alpestris*, *Geococcyx californianus*, *Geothlypis*

trichas, Icteria virens, Icterus galbula, Ixobrychus exilis, Megasceryle alcyon, Melanerpes erythrocephalus, Meleagris gallopavo, Mimus polyglottos, Molothrus ater, Myiarchus crinitus, Parus bicolor, Passer domesticus, Penthestes carolinensis, Phasianus colchicus, Pipilo erythrophthalmus, Piranga rubra, Poecile carolinensis, Polioptila caerulea, Protonotaria citrea, Quiscalus quiscula, Rallus elegans, Setophaga ruticilla, Sialia sialis, Spiza americana, Spizella passerine, S. pusilla, Sturnella magna, S. neglecta, Sturnus vulgaris, Thryomanes bewicki, Thryothorus ludovicianus, Toxostoma rufum, Troglodytes aedon, Turdus migratorius, Tympanuchus cupido, Vireo olivaceus, Zenaidura macroura

M: *Canis latrans, Cryptotis parva, Cynomys ludovicianus, Dasypus novemcinctus, Didelphis virginiana, Dipodomys merriami, D. ordii, Eptesicus fuscus, Lasiurus borealis, Lepus californicus, Liomys irroratus, Marmota monax, Mephitis elongate, Microtus ochrogaster, M. pennsylvanicus, M. pinetorum, Mormoops megalophylla, Mus musculus, Mustela frenata, Myotis septentrionalis, Neotoma albigula, N. cinerea, N. floridana, N. mexicana, N. micropus, Odocoileus hemionus, Onychomys leucogaster, Oryzomys palustris, Perognathus flavescens, P. hispidus, Peromyscus difficilis, P. leucopus, P. maniculatus, Procyon lotor, Rattus norvegicus, R. rattus, Reithrodontomys fulvescens, R. megalotis, Sciurus carolinensis, S. niger, Sigmodon hispidus, Spermophilus tridecemlineatus, S. variegatus, Sylvilagus auduboni, S. floridanus, Synaptomys cooperi, Tadarida brasiliensis, Tamias minimus, T. striatus, Urocyon cinereoargenteus, Zapus hudsonius*

E. batatas (Linnaeus, 1913) – AL, AZ, CA, FL, GA, KS

H: *Holbrookia maculata*, *Sceloporus graciosus*, *S. magister*, *S. undulatus*

B: *Colinus virginianus*, *Mimus polyglottos*, *Pipilo erythrophthalmus*, *Sturnella magna*, *S. neglecta*, *Toxostoma rufum*

M: *Didelphis virginiana*, *Dipodomys merriami*, *D. ordii*, *Lasiurus borealis*, *Lepus californicus*, *Neotoma albigula*, *N. floridana*, *N. lepida*, *Odocoileus virginianus*, *Ondatra zibethicus*, *Oryzomys palustris*, *Perognathus baileyi*, *P. formosus*, *P. hispidus*, *P. penicillatus*, *Rattus rattus*, *Sigmodon hispidus*, *Sylvilagus auduboni*, *S. floridanus*

E. chiricahuae Bennett and Loomis, 1981 – AZ

H: *Sceloporus scalaris*, *S. virgatus*

E. cinnabaris (Ewing, 1920) – FL, GA, VA

H: *Anolis carolinensis*, *Cnemidophorus sexlineatus*, *Masticophis flagellum*, *Sceloporus undulatus*

B: *Cardinalis cardinalis*, *Geothlypis trichas*, *Strix varia*, *Thryothorus ludovicianus*, *Troglodytes aedon*, *Zonotrichia albicollis*

M: *Neotoma floridana*, *Peromyscus gossypinus*, *Rattus rattus*, *Sigmodon hispidus*

E. goeldii (Oudemans, 1910) – OR

B: *Larus philadelphia*

E. lipovskyana Wolfenbarger 1952 – AR, AZ, KS, LA, OK, TN

H: *Acris gryllus*, *Ancistrodon contortrix*, *Anolis carolinensis*, *Bufo woodhousii*, *Coluber constrictor*, *Crotalus horridus*, *Crotaphytus collaris*, *Elaphe obsoleta*,

Eumeces obsoletus, *Lampropeltis getulus*, *Sceloporus jarrovi*, *Terrapene carolina*, *T. ornata*, *Thamnophis sirtalis*,

B: *Agelaius phoeniceus*, *Bartramia longicauda*, *Cardinalis cardinalis*,
Chondestes grammacus, *Colinus virginianus*, *Empidonax sp.*, *Molothrus ater*,
Parus carolinensis, *Passer domesticus*, *Quiscalus quiscula*, *Rallus elegans*,
Sialia sialis, *Spiza americana*, *Sturnella magna*, *S. neglecta*, *Sturnus vulgaris*,
Toxostoma rufum, *Troglodytes aedon*, *Turdus migratorius*, *Tympanuchus cupido*, *Tyrannus tyrannus*, *Zenaidura macroura*

M: *Cryptotis parva*, *Microtus ochrogaster*, *Mus musculus*, *Neotoma floridana*,
Peromyscus maniculatus, *Scalopus aquaticus*, *Sciurus niger*, *Sigmodon hispidus*, *Sylvilagus floridanus*

E. masoni (Ewing, 1943) - GA, FL, MA, MD, SC, TX

H: *Amyda ferox*, *Anolis carolinensis*, *Chrysomys picta*, *Cnemidophorus sexlineatus*, *Coluber constrictor*, *Drymarchon corais*, *Elaphe obsoleta*,
Eumeces fasciatus, *E. laticeps*, *Gopherus polyphemus*, *Heterodon contortrix*,
H. simus, *Hyla squirella*, *Lampropeltis getulus*, *Micrurus fulvius*, *Opheodrys aestivus*, *Sceloporus undulatus*, *S. woodi*, *Terrapene carolina*, *Thamnophis sirtalis*

B: *Colaptes auratus*, *Colinus virginianus*, *Polioptala caerulea*, *Thryothorus ludovicianus*, *Toxostoma rufum*

M: *Didelphis virginiana*, *Microtus pennsylvanicus*, *Neofiber alleni*, *Neotoma floridanus*, *Odocoileus virginianus*, *Oryzomys palustris*, *Procyon lotor*, *Rattus norvegicus*, *Sigmodon hispidus*, *S. littoralis*, *Sylvilagus floridanus*

E. multisetosa (Ewing, 1943) – FL

B: *Sturnella magna*

M: *Procyon lotor*, *Sigmodon hispidus*, *S. littoralis*

E. splendens (Ewing, 1913) – FL, GA, IN, LA, MA, MD, MI, NC, SC, TN, VA

H: *Agkistrodon piscivorous*, *Coluber constrictor*, *Drymarchon corais*, *Elaphe quadrivittata*, *Lampropeltis getulus*, *Masticophis flagellum*, *Ophisaurus sp.*, *Sceloporus undulatus*, *Sistrurus miliarius*, *Terrepene carolina*, *Thamnophis sauritus*, *T. sirtalis*, *Thryothorus ludovicianus*

B: *Pipilo erythrophthalmus*, *Strix varia*

M: *Cervus nippon*, *C. unicolor*, *Didelphis virginiana*, *Neofiber alleni*, *Neotoma floridana*, *Odocoileus virginianus*, *Oryzomys palustris*, *Sciurus carolinensis*, *Sigmodon hispidus*, *Sorex longirostris*, *Sylvilagus floridanus*, *Tamias striatus*, *Ursus americanus*, *Zapus hudsonius*

E. tropica (Ewing, 1925) – DE

M: *Microtus pennsylvanicus*

Fonsecia kansasensis (Loomis 1955) – KS, TX

H: *Coleonyx reticulatus*, *Coluber constrictor*, *Crotalis horridus*, *Pituophis catenifer*, *Sigmodon ochrognathus*, *Thamnophis sirtalis*

M: *Neotoma albigula*, *N. micropus*, *Peromyscus leucopus*, *P. maniculatus*

F. palmella Brennan and Loomis, 1959 – LA, OH, SC, TN

H: *Eumeces fasciatus*, *E. inexpectatus*, *E. laticeps*, *E. obsoleta*

Hemitrombicula simplex Ewing, 1938 – MI

H: *Elaphe obsoleta*

Hexidionis allredi (Brennan and Beck, 1955) – NV, TX, UT

M: *Dipodomys merriami*, *D. ordii*, *Liomys irroratus*, *Neotoma albigula*, *N. lepida*,
N. micropus, *Perognathus merriami*, *P. nelsoni*, *P. penicillatus*, *Peromyscus*
eremicus, *Reithrodontomys sp.*, *Sigmodon hispidus*, *Sylvilagus auduboni*

H. breviseta (Loomis and Crossley, 1963) – TX

M: *Dipodomys ordii*, *Perognathus merriami*, *Peromyscus eremicus*

H. deserti Loomis and Lucas, 1970 – AZ, CA, NV

M: *Dipodomys merriami*, *Perognathus fallax*, *P. formosus*, *P. longimembris*

H. doremi (Brennan and Beck, 1955) – CA, ID, UT

M: *Dipodomys merriami*, *D. ordii*, *Onychomys leucogaster*, *Perognathus parvus*,
P. longimembris

H. harveyi Loomis and Lucas, 1969 – NM, TX

M: *Dipodomys merriami*, *D. ordii*, *D. spectabilis*, *Perognathus merriami*, *P.*
penicillatus, *Peromyscus maniculatus*, *Reithrodontomys megalotis*

H. jessimae (Gould, 1956) – CA, NV, TX

M: *Dipodomys merriami*, *D. microps*, *Liomys irroratus*, *Neotoma lepida*,
Notiosorex crawfordi, *Mus musculus*, *Perognathus parvus*, *Peromyscus*
leucopus, *Sigmodon hispidus*, *Rattus rattus*

H. lacerticola Loomis, 1964 – CA, NV

H: *Callisaurus draconoides*, *Cnemidophorus tigris*, *Crotaphytus collaris*, *C.*
wislizeni, *Phrynosoma platyrhinos*, *Sceloporus magister*, *S. occidentalis*, *Uta*
stansburiana

Hyponeocula arenicola (Loomis, 1954) – AB, AZ, CA, CO, ID, KS, NM, NV, TX, UT

H: *Cnemidophorus tigris*, *Coleonyx brevis*, *C. variegatus*, *Coluber taeniatus*,
Heterodon nasicus, *Lampropeltis getulus*, *Masticophis flagellum*,
Phyllorhynchus decurtatus, *Pituophis catenifer*, *P. melanoleucus*

B: *Eremophila alpestris*, *Muscivora forficata*

M: *Cynomys parvidens*, *Dipodomys heermanni*, *D. merriami*, *D. microps*, *D.*
ordii, *D. panamintinus*, *D. spectabilis*, *Lagurus curtatus*, *Mus musculus*,
Neotoma albigula, *N. lepida*, *Onychomys torridus*, *Pappogeomys castanops*,
Perognathus fasciatus, *P. flavus*, *P. formosus*, *P. hispidus*, *P. longimembris*,
P. merriami, *P. parvus*, *P. penicillatus*, *Peromyscus maniculatus*, *P. truei*,
Reithrontomys megalotis, *Sorex tenellus*, *Spermophilus richardsoni*, *S.*
spilosoma, *S. tereticaudus*

H. fovea Tanigoshi and Loomis, 1974 – CA, NV

H: *Chionactis occipitalis*, *Cnemidophorus tigris*, *Coleonyx variegates*,
Masticophis flagellum, *Phyllorhynchus decurtatus*, *Salvadora hexalepis*, *Uta*
stansburiana

M: *Dipodomys merriami*, *D. microps*, *D. ordii*, *D. panamintinus*, *Perognathus*
fallax, *P. formosus*, *P. longimembris*, *Peromyscus eremicus*

H. imitator Tanigoshi and Loomis, 1974 – AZ, CA

H: *Arizona elegans*, *Chionactis occipitalis*, *Coleonyx variegates*, *Lampropeltis*
getulus,

M: *Dipodomys merriami*, *D. panamintinus*, *Perognathus formosus*, *P.*
longimembris, *P. penicillatus*, *Spermophilus beecheyi*, *S. tereticaudus*,
Thomomys bottae

H. luciae Tanigoshi and Loomis, 1974 – CA

H: *Cnemidophorus tigris*, *Masticophis flagellum*

M: *Dipodomys deserti*, *Perognathus formosus*, *P. penicillatus*, *P. spinatus*

H. montanensis (Brennan 1946) – AB, CA, CO, KS, MT, NE, OK, SD, TX, UT

H: *Crotalus atrox*, *C. scutulatus*, *C. viridis*, *Elaphe subocularis*, *Heterodon nasicus*, *H. platyrhinos*, *Masticophis flagellum*, *Pituophis catenifer*, *P. melanoleucus*, *Terrapene ornata*

B: *Cyanocitta cristata*, *Speotyto cunicularia*

M: *Chaetodipus hispidus*, *Cynomys leucurus*, *C. ludovicianus*, *Dipodomys heermanni*, *D. ordii*, *Mus musculus*, *Neotoma albigula*, *N. lepida*, *N. micropus*, *Onychomys leucogaster*, *Perognathus flavescens*, *P. flavus*, *P. hispidus*, *Peromyscus maniculatus*, *P. truei*, *Spermophilus beldingi*, *S. lateralis*, *S. mexicanus*, *S. richardsoni*, *S. spilosoma*, *S. tridecemlineatus*, *Sylvilagus floridanus*, *S. nuttallii*

H. sauricola Tanigoshi and Loomis, 1974 – AZ

H: *Sceloporus jarrovii*

Kayella bigenuala (Farrell, 1956) – TX

M: *Liomys irroratus*, *Peromyscus eremicus*, *Sigmodon sp.*

K. lacerta (Brennan, 1948) – CA, CO, KS, NV, TX, UT

H: *Eumeces skiltonianus*, *Gerrhonotus multicarinatus*, *Masticophis flagellum*, *Sceloporus occidentalis*,

M: *Cynomys ludovicianus*, *Dipodomys microps*, *Liomys irroratus*, *Neotoma albigula*, *N. cinerea*, *N. fuscipes*, *N. lepida*, *N. mexicana*, *N. micropus*,

Pappogeomys castanops, *Perognathus californicus*, *P. merriami*, *P. nelsoni*,
P. penicillatus, *Peromyscus boylii*, *P. difficilis*, *P. eremicus*, *P. maniculatus*,
P. pectoralis, *Reithrodontomys megalotis*, *Sigmodon ochrognathus*,
Spermophilus beecheyi, *S. lateralis*, *Sylvilagus auduboni*, *S. floridanus*

Leptotrombidium myotis (Ewing, 1929) – AB, AR, AZ, CA, CO, IA, IN, KS, ME, MI,
MT, NJ, NM, NS, ON, OR, PA, PE, SD, TN, UT, VA, WI, WV

H: *Elaphe obsoleta*

M: *Antrozous pallidus*, *Corynorhinus townsendii*, *Eptesicus fuscus*, *Lasionycteris
noctivagans*, *Microtus pinetorum*, *Myotis californicus*, *M. ciliolabrum*, *M.
evotis*, *M. grisescens*, *M. leibii*, *M. lucifugus*, *M. occultus*, *M. septentrionalis*,
M. subulatus, *M. thysanodes*, *M. velifer*, *M. volans*, *M. yumanensis*, *Neotoma
micropus*, *Ondatra zibethicus*, *Parastrellus hesperus*, *Peromyscus leucopus*,
P. maniculatus

L. panamensis (Ewing or Brennan, 1925) – AZ, CO, NV, TX, UT

M: *Ammospermophilus interpres*, *Dipodomys merriami*, *Liomys irroratus*,
Microtus longicaudus, *Neotoma albigula*, *N. cinerea*, *N. lepida*, *N. mexicana*,
N. micropus, *Parastrellus hesperus* (nr.), *Perognathus merriami*, *P. nelsoni*,
P. parvus, *P. penicillatus*, *Peromyscus eremicus*, *P. maniculatus*, *P.
pectoralis*, *Spermophilus spilosoma*

L. peromysci Vercammen-Grandjean and Langston, 1975 – FL, GA, IN, MI, NC, PA,
SD, TN, VA, VT

M: *Didelphis virginiana*, *Glaucomys sabrinus*, *G. volans*, *Microtus chrotorrhinus*,
M. pennsylvanicus, *Neotoma floridana*, *Peromyscus gossypinus*, *P. leucopus*,

P. maniculatus, *P. polionotus*, *Reithrodontomys humulis*, *Sciurus carolinensis*,
S. niger, *Sigmodon hispidus*, *Sorex cinereus*, *Tamias striatus*, *Tamiasciurus*
hudsonicus, *Zapus hudsonius*

Loomisia sprocssi (Brennan, 1965) – AZ, CA

M: *Antrozous pallidus*, *Eptesicus fuscus*, *Macrotus californicus*, *Parastrellus*
hesperus

L. univari (Brennan, 1965) – AZ, OR

M: *Parastrellus hesperus*

Mackiena migratoria Nadchatram and Wilson, 1969 – IN

B: *Riparia riparia*

Microtrombicula aequalis Webb and Loomis, 1971 – AZ

M: *Peromyscus boylii*

M. crossleyi (Loomis, 1954) – FL, KS, OK, TX

B: *Melanerpes erythrocephalus*

M: *Peromyscus floridanus*, *P. gossypinus*, *P. leucopus*, *P. maniculatus*, *P.*
polionotus

M. merrihewi (Loomis and Lipovsky 1954) – AZ, CA, NM, OK, TX, UT

M: *Tadarida brasiliensis*

M. nasalis Loomis, 1956 – CA

M: *Neotoma lepida*, *Peromyscus crinitus*, *P. eremicus*, *P. truei*

M. trisetica (Loomis and Crossley, 1953) – AR, CA, IN, KS, SC

H: *Agkistrodon contortrix*, *Elaphe obsoleta*, *Eumeces laticeps*

M: *Neotoma floridana*, *Peromyscus truei*, *Sciurus carolinensis*

M. welbourni Loomis and Webb, 1971 – TX

M: *Peromyscus pectoralis*

M. wrenni Loomis, 1956 – CA

M: *Peromyscus crinitus*; *P. eremicus*

Miyatrombicula cynos (Ewing, 1937) – CA, GA, IN, KS, NJ, NY, OR, QC, SC, SD, WI

M: *Glaucomys volans*, *Myodes gapperi* (nr.), *Myotis velifer*, *Neotoma cinerea*, *N. floridana*, *Peromyscus leucopus*, *Procyon lotor*, *Rattus norvegicus*, *Sciurus carolinensis*, *S. niger*, *Tamiasciurus douglasii*, *T. hudsonicus*

M. esoensis (Sasa & Ogata, 1953) – MA, MI, NB, PA, QC, SD, UT

M: *Blarina brevicauda*, *Glaucomys sabrinus*, *Microtus chrotorrhinus*, *M. pennsylvanicus*, *Myodes gapperi*, *Napaeozapus insignis*, *Peromyscus leucopus*, *P. maniculatus*, *Rattus norvegicus*, *Sorex cinereus*, *S. fumeus*, *S. gaspensis*, *S. hoyi*, *S. palustris*, *Synaptomys borealis*, *S. cooperi*, *Tamias minimus*, *T. striatus*, *Tamiasciurus hudsonicus*

M. jonesae (Brennan, 1952) – IL, IN, GA, KS, MD, NC

M: *Lasionycteris noctivagans*, *Neotoma floridana*, *Peromyscus leucopus*, *Sciurus niger*, *Vulpes vulpes*

M. scottae (Brennan, 1952) – CA

M: *Neotoma fuscipes*, *Perognathus californicus*, *Peromyscus californicus*, *P. maniculatus*, *P. truei*, *Spermophilus beecheyi*

Neoschoengastia americana (Hirst, 1921) – AK, AL, AR, CA, FL, GA, KS, LA, MO,

MS, OK, SC, TX, UT, VA

B: *Aimophila ruficeps*, *Amphispiza belli*, *A. bilineata*, *Aphelocoma californica*,
Campylorhynchus brunneicapillus, *Cardinalis cardinalis*, *Catharus guttatus*,
Catherpes mexicanus, *Charadrius vociferous*, *Chondestes grammacus*,
Chordeiles acutipennis, *Coccyzus americanus*, *Colinus virginianus*, *Corvus*
brachyrhynchus, *Dendrocopos scalaris*, *Dendroica coronata*, *Dumatella*
carolinensis, *Euphagus cyanocephalus*, *Geococcyx californianus*, *Heleodytes*
brunneicapillus, *Junco hyemalis*, *J. oreganus*, *Lanius ludovicianus*, *Lophortyx*
californicus, *Megasceryle alcyon*, *Meleagris gallopavo*, *Melospiza lincolni*, *M.*
melodia, *Mimus polyglottos*, *Molothrus ater*, *Oreotyx picta*, *Otis asio*, *Otocoris*
alpestris, *Parabuteo unicinctus*, *Passerculus sandwichensis*, *Passerina ciris*,
Passer domesticus, *Phalaenoptilus nuttallii*, *Pipilo crissalis*, *P. fuscus*, *P.*
maculatus, *Quiscalus quiscula*, *Rallus elegans*, *Salpinctes obsoletus*,
Scardafella inca, *Sialia sialis*, *Speotyto cunicularia*, *Spiza americana*,
Sturnella magna, *Thryomanes bewickii*, *Toxostoma curvirostre*, *T. redivivum*,
T. rufum, *Troglodytes aedon*, *Turdus migratorius*, *Tympanuchus cupido*,
Zonotrichia albicollis, *Z. atricapilla*, *Z. leucophrys*

M: *Cynomys ludovicianus*, *Dipodomys heermanni*, *Lepus californicus*, *Sorex*
trowbridgii, *Sylvilagus floridanus*

N. brennani Crossley and Loomis, 1955 – CO, KS, TX

B: *Calamospiza melanocorys*, *Cardinalis cardinalis*, *Chondestes grammacus*,
Crotophaga sulcirostris, *Geococcyx californicus*, *Melanerpes erythrocephalus*,
Muscivora forficata, *Pyrrhuloxia sinuate*, *Toxostoma curvirostre*, *T. rufum*,
Tyrannus tyrannus, *Vireo griseus*

H: *Sceloporus undulatus*

M: *Lepus californicus*, *Sylvilagus floridanus*

N. fullbergae Brennan, 1948 – CA, MT

M: *Lepus californicus*, *Odocoileus hemionus*

N. paenitens Brennan, 1952 – MT

B: *Petrochelidon pyrrhonota*

N. rebeccannae Brennan, 1965 – TX

B: *Eremophila alpestris*

Neotrombicula bisignata (Ewing, 1929) – ME, MI, NEW ENGLAND, NS, PA

B: *Ammodramus henslowi*

M: *Condylura cristata*, *Lepus americanus*, *Microtus pennsylvanicus*, *Ondatra zibethicus*, *Peromyscus maniculatus*, *Tamias striatus*, *Tamiasciurus hudsonicus*

N. brennani Gould, 1956 – CA, OR, WA

M: *Myodes gapperi*, *M. occidentalis*, *Neurotrichus gibbsii*, *Scapanus townsendii*, *Sorex trowbridgii*

N. californica (Ewing, 1942) – CA, ID, MT, UT, WY

H: *Sceloporus graciosus*, *S. occidentalis*, *Uta stansburiana*

B: *Zonotricha coronata*

M: *Dipodomys venustus*, *Microtus californicus*, *M. longicaudus*, *M. montanus*, *Mus musculus*, *Myodes gapperi*, *Neotoma fuscipes*, *N. lepida*, *Perognathus californicus*, *Peromyscus californicus*, *P. maniculatus*, *Reithrodontomys megalotis*, *Sorex trowbridgii*, *Spermophilus armatus*, *S. beecheyi*, *S. beldingi*,

S. lateralis, *Sylvilagus bachmani*, *S. nuttallii*, *Tamias amoenus*, *Tamiasciurus hudsonicus*, *Thomomys bottae*, *T. monticola*, *T. neglectus*, *Zapus princeps*

N. cavicola (Ewing 1931) – BC, CA, IN, KY, MO, MS, NC, OR, TN, WA

B: *Troglodytes aedon*

M: *Blarina brevicauda*, *Didelphis virginiana*, *Microtus californicus*, *M. montanus*, *M. ochrogaster*, *M. oregoni*, *Myodes occidentalis*, *Neotoma cinerea*, *N. floridana*, *N. fuscipes*, *Peromyscus leucopus*, *P. maniculatus*, *Reithrodontomys megalotis*, *Sorex cinereus*, *S. dispar*, *S. fumeus*, *S. pacificus*, *S. palustris*, *S. vagrans*, *S. trowbridgii*, *Sylvilagus floridanus*, *Tamias townsendi*, *Zapus trinotatus*

N. dinehartae (Brennan and Wharton, 1950) – CA, OR

H: *Gerrhonotus multicarinatus*, *Thamnophis ordinoides*, *T. sirtalis*

M: *Didelphis virginianus*, *Microtus californicus*, *Perognathus californicus*, *Peromyscus boylii*, *P. californicus*, *P. maniculatus*, *Sylvilagus auduboni*, *Tamias merriami*, *Thomomys bottae*

N. fitchi (Loomis, 1954) – IL, IN, KS, NE, NJ, SC, WV

H: *Elaphe obsoleta*

M: *Blarina brevicauda*, *Glaucomys volans*, *Myotis velifer*, *Neotoma micropus*, *Sciurus carolinensis*, *S. niger*, *Tamias striatus*, *Tamiasciurus hudsonicus*

N. harperi (Ewing, 1928) – BC, CA, CO, ID, MA, ME, MI, MN, MT, NB, NY, OH, OR,

PA, QC. SD, UT, WY

H: *Gambelia sp.*, *Sceloporus occidentalis*, *Uta stansburiana*

B: *Junco hyemalis*, *Melospiza melodia*, *Passer domesticus*, *Sturnus vulgaris*,
Turdus migratorius

M: *Blarina brevicauda*, *Erethizon dorsatum*, *Glaucomys sabrinus*, *Lepus
americanus*, *Marmota flaviventris*, *Microtus chrotorrhinus*, *M. longicaudus*,
M. modestus, *M. montanus*, *M. oregoni*, *M. pennsylvanicus*, *Myodes gapperi*,
M. occidentalis, *Napaeozapus insignis*, *Neotoma cinerea*, *N. mexicana*,
Ochotona princeps, *Ondatra zibethicus*, *Onychomys leucogaster*, *Perognathus
parvus*, *Peromyscus leucopus*, *P. maniculatus*, *Phenacomys intermedius*,
Sorex arcticus, *S. cinereus*, *S. fumeus*, *S. vagrans*, *Spermophilus armatus*, *S.
columbianus*, *S. lateralis*, *Synaptomys cooperi*, *Tamias amoenus*, *T. minimus*,
T. striatus, *T. townsendi*, *Tamiasciurus hudsonicus*, *Zapus hudsonius*, *Z.
princeps*, *Z. trinotatus*

N. jewetti (Brennan and Wharton, 1950) – CA, OR, UT

M: *Aplodontia rufa*, *Microtus californicus*, *M. longicaudus*, *M. montanus*, *M.
townsendi*, *Mus musculus*, *Myodes californicus*, *M. occidentalis*, *Neotoma
fuscipes*, *Perognathus californicus*, *Peromyscus boylii*, *P. californicus*, *P.
maniculatus*, *P. truei*, *Reithrodontomys megalotis*, *Scapanus latimanus*, *Sorex
trowbridgi*, *Spermophilus beecheyi*, *Tamias sp.*, *Tamiasciurus douglasii*,
Thomomys bottae, *Zapus pacificus*

N. lipovskyi (Brennan and Wharton, 1950) – AR, IL, IN, KS, MO, NE, OK

H: *Heterodon platyrhinos*

B: *Asio otus*, *Cardinalis cardinalis*, *Centurus carolinus*, *Melospiza melodia*,
Parus atricapillus, *Sturnella neglecta*

M: *Blarina brevicauda*, *Canis latrans*, *Didelphis virginiana*, *Lepus californicus*,
Microtus ochrogaster, *M. pennsylvanicus*, *M. pinetorum*, *Mus musculus*,
Neotoma floridana, *N. micropus*, *Peromyscus leucopus*, *P. maniculatus*, *Rattus*
norvegicus, *Reithrodontomys fulvescens*, *R. megalotis*, *Sciurus carolinensis*, *S.*
niger, *Sigmodon hispidus*, *Sylvilagus floridanus*, *Urocyon cinereoargenteus*,
Zapus hudsonius

N. microti (Ewing, 1928) – AB, BC, CA, CO, IN, ME, MI, MN, MT, ND, NL, NM, NS,
NY, ON, OR, PA, PE, QC, UT, VT, WA, WV, WY

B: *Melospiza melodia*, *M. lincolni*, *Seiurus aurocapillus*

M: *Blarina brevicauda*, *Eptesicus fuscus*, *Glaucomys sabrinus*, *Marmota*
flaviventris, *Microtus chrotorrhinus*, *M. longicaudus*, *M. mexicanus*, *M.*
modestus, *M. montanus*, *M. pennsylvanicus*, *M. richardsoni*, *Myodes gapperi*,
M. occidentalis, *Napaeozapus insignis*, *Neotoma cinerea*, *N. lepida*, *Ochotona*
princeps, *O. schisticeps*, *Ondatra zibethicus*, *Parascalops breweri*,
Peromyscus leucopus, *P. maniculatus*, *Phenacomys intermedius*, *Procyon*
lotor, *Scapanus townsendi*, *Sorex fumeus*, *S. palustris*, *Sylvilagus nuttali*,
Tamias alpinus, *T. amoenus*, *Tamiasciurus hudsonicus*, *Zapus hudsonius*, *Z.*
princeps, *Z. trinotatus*

N. richmondi (Brennan and Wharton, 1950) – AR, GA, PA

M: *Microtus pennsylvanicus*, *Myodes gapperi*, *Napaeozapus insignis*, *Odocoileus*
virginianus, *Ondatra zibethicus*, *Peromyscus leucopus*

N. scelopori Ewing, 1931 – TX

H: *Sceloporus spinosus*

N. subsignata (Brennan and Wharton, 1950) – CA, CO, MO, MT, ND, NY, PA, UT, WY

B: *Capella gallinago*, *Seiurus motacilla*

M: *Marmota flaviventris*, *Microtus pennsylvanicus*, *Reithrodontomys megalotis*,
Spermophilus beldingi, *S. lateralis*, *S. tridecemlineatus*, *Sylvilagus floridanus*,
Zapus hudsonius, *Z. princeps*

N. superciliaris Loomis and Meagens, 1975 – CA

H: *Uta stansburiana*

N. sylvilagi (Brennan and Wharton, 1950) – IL, IN, KS

H: *Agkistrodon contortrix*, *Coluber constrictor*

B: *Cardinalis cardinalis*, *Colinus virginianus*, *Junco hyemalis*, *Turdus*
migratorius

M: *Cryptotis parva*, *Microtus ochrogaster*, *Mus musculus*, *Neotoma floridana*,
Peromyscus leucopus, *P. maniculatus*, *Sciurus carolinensis*, *S. niger*,
Sylvilagus floridanus, *Synaptomys sp.*, *Zapus hudsonius*

N. waynensis (Brennan and Wharton, 1950) – IN, MI, PA, SC

B: *Melospiza georgiana*

M: *Neotoma floridana*, *Ondatra zibethicus*

N. whartoni (Ewing, 1929) – AR, CT, DE, FL, GA, IL, IN, KS, MA, MD, MO, MS, NC,
NE, NJ, OK, PA, SC, TX

B: *Cardinalis cardinalis*, *Catharus guttatus*, *Colinus virginianus*, *Cyanocitta*
cristata, *Hylocichla guttata*, *Junco hyemalis*, *Mimus polyglottos*, *Parus*
bicolor, *Pipilo erythrophthalmus*, *Thryothorus ludovicianus*, *Toxostoma rufum*,
Troglodytes aedon, *Zonotrichia albicollis*, *Z. querula*

M: *Castor canadensis*, *Didelphis virginiana*, *Glaucomys volans*, *Lepus californicus*, *Mephitis mephitis*, *Microtus ochrogaster*, *M. pennsylvanicus*, *M. pinetorum*, *Mus musculus*, *Mustela vison*, *Neotoma floridana*, *Odocoileus virginianus*, *Ondatra zibethicus*, *Peromyscus leucopus*, *P. maniculatus*, *Procyon lotor*, *Rattus norvegicus*, *Reithrodontomys fulvescens*, *Sciurus carolinensis*, *S. niger*, *Sigmodon hispidus*, *Sylvilagus floridanus*, *S. palustris*, *Tamias striatus*, *Tamiasciurus hudsonicus*, *Urocyon cinereoargenteus*, *Vulpes vulpes*, *Zapus hudsonius*

Otorhinophila baccusi Loomis and Wrenn, 1973 – TX

M: *Dipodomys merriami*, *D. ordii*, *Pappogeomys castanops*, *Perognathus merriami*, *P. nelsoni*, *P. penicillatus*, *Peromyscus eremicus*

O. desertorum Loomis and Wrenn, 1973 – AZ, CA

M: *Ammospermophilus leucurus*, *Dipodomys merriami*, *Neotoma albigula*, *N. lepida*, *Perognathus fallax*, *P. formosus*, *P. longimembris*, *P. penicillatus*, *Peromyscus crinitus*, *P. eremicus*

O. parvisola Wrenn and Loomis, 1967 – AZ, CA

M: *Dipodomys merriami*, *D. ordii*, *Neotoma albigula*, *N. lepida*, *N. stephensi*, *Onychomys torridus*, *Perognathus baileyi*, *P. formosus*, *P. intermedius*, *P. penicillatus*

O. sola (Gould, 1956) – CA, NV

M: *Neotoma lepida*

O. xerophila Loomis and Wrenn, 1973 – CA

M: *Ammospermophilus leucurus* *Dipodomys merriami*, *D. panimintinus*, *Neotoma lepida*, *Perognathus fallax*, *P. longimembris*, *P. penicillatus*

Parasecia gurneyi (Ewing, 1937) – AL, AR, CO, GA, FL, KS, LA, MI, MD, NE, OK, ON, TX, VA

H: *Arizona elegans*, *Coleonyx brevis*, *Crotalis horridus*, *C. viridis*, *Elaphe obsoleta*, *Eumeces fasciatus*, *E. inexpectatus*, *E. laticeps*, *E. obsoletus*, *Heterodon nasicus*, *H. platyrhinos*, *Lampropeltis getulus*, *L. triangulum*, *Masticophis flagellum*, *Natrix sipedon*, *Sceloporus undulatus*, *Thamnophis sirtalis*, *Uta ornata*

B: *Melanerpes erythrocephalus*, *Speotyto cunicularia*, *Strix varia*, *Toxostoma rufum*

M: *Ammospermophilus interpres*, *Blarina brevicauda*, *Cynomys ludovicianus*, *Dipodomys merriami*, *D. ordii*, *Eptesicus fuscus*, *Neotoma floridana*, *N. micropus*, *Nycticeius humeralis*, *Onychomys leucogaster*, *Perognathus hispidus*, *P. merriami*, *Peromyscus eremicus*, *P. leucopus*, *P. maniculatus*, *Scalopus aquaticus*, *Sciurus carolinensis*, *S. niger*, *Sigmodon hispidus*, *Spermophilus pilosoma*, *S. tridecemlineatus*, *Sylvilagus floridanus*

Perates monops (Brennan and Jones, 1960) – TX

M: *Mormoops megalophylla*

Perissopalla flagellisetula Brennan and White, 1960 – AL

M: *Perimyotis subflavus*

Pseudoschongastia aeci Brennan, 1965 – NV

M: *Neotoma lepida*

P. apista Brennan and Yunker 1966 – TX

M: *Bassariscus astutus*

P. audyi Brennan and Jones, 1959 – TX

M: *Liomys irroratus*, *Peromyscus leucopus*

P. farneri Lipovsky 1951 – CO, KS, SD, TX

M: *Cryptotis parva*, *Dipodomys ordii*, *Liomys irroratus*, *Neotoma albigula*, *N. floridana*, *N. micropus*, *Perognathus hispidus*, *P. merriami*, *Peromyscus boylii*, *P. difficilis*, *P. eremicus*, *P. leucopus*, *P. maniculatus*, *P. pectoralis*, *Sigmodon hispidus*, *S. ochrognathus*

P. hungerfordi Lipovsky, 1951 – KS, MO, TX

M: *Dipodomys ordii*, *Lepus californicus*, *Microtus ochrogaster*, *Mus musculus*, *Neotoma albigula*, *N. floridana*, *N. micropus*, *Onychomys leucogaster*, *Perognathus flavus*, *P. hispidus*, *P. nelsoni*, *Peromyscus eremicus*, *P. leucopus*, *P. maniculatus*, *Reithrodontomys fulvescens*, *R. megalotis*, *Sigmodon hispidus*, *S. ochrognathus*, *Sylvilagus auduboni*, *S. floridanus*

P. occidentalis Brennan, 1952 – CA

M: *Peromyscus boylii*, *P. californicus*, *P. maniculatus*

Speleocola tadaridae Lipovsky, 1952 – KS, OK, TX

M: *Tadarida brasiliensis*, *T. femorosacca*

Tecomatlana sandovali Hoffmann, 1947 – AZ

M: *Macrotus californicus*

T. texana (Loomis and Crossley, 1963) – TX

M: *Mormoops megalophylla*, *Tadarida macrotis*

T. watkinsi Vercammen-Grandjean, 1967 – CA

M: *Macrotus californicus*

Trombicula akamushi (Brumpt, 1910) – NC

M: *Peromyscus leucopus* (nr.)

T. alaskensis Brennan and Wharton, 1950 – AK

B: *Hylocichla ustulata*

T. autumnalis Shaw, 1790 – CO, GA, NC, NE

B: *Toxostoma rufum*

M: *Microtus ochrogaster*, *M. pennsylvanicus*, *Neotoma cinerea*, *Reithrodontomys megalotis*, *Sylvilagus floridanus*

T. bakeri Ewing, 1946 – ID, UT

M: *Dipodomys ordii*, *Peromyscus maniculatus*, *Spermophilus armatus*

T. belkini Gould, 1950 – CA, ID, NV, UT

H: *Cnemidophorus hyperythrus*, *C. tessellatus*, *C. tigris*, *Crotaphytus collaris*, *Eumeces skiltonianus*, *Gambelia wislizeni*, *Gerrhonotus multicarinatus*, *Phrynosoma coronatum* *P. douglassi*, *P. platyrhinos*, *Pituophis catenifer*, *Sceloporus graciosus*, *S. magister*, *S. occidentalis*, *S. orcutti*, *Trimorphodon vandenburghi*, *Uta mearnsi*, *U. stansburiana*

B: *Meleagris gallopavo*

M: *Dipodomys ordii*, *Marmota flaviventris*, *Mus musculus*, *Myodes gapperi*, *Neotoma lepida*, *Perognathus californicus*, *P. longimembris*, *Peromyscus truei*, *Reithrodontomys megalotis*, *Spermophilus beecheyi*, *S. lateralis*, *S. leucurus*

T. browni Brennan and Wharton, 1950 – WY

M: *Microtus longicaudus*, *Peromyscus maniculatus*, *Tamiasciurus hudsonicus*,
Zapus hudsonius

T. discors Brennan and Jones, 1960 – TX

M: *Mormoops megalophylla*

T. eptesici Brennan, 1947 – MT

M: *Eptesicus fuscus*

T. eusignata Brennan and Wharton, 1950 – MT

M: *Spermophilus lateralis*, *Tamias amoenus*

T. farrelli Brennan and Wharton, 1950 – NC

M: *Peromyscus leucopus*

T. finleyi Kardos, 1954 – CO

M: *Neotoma cinerea*

T. goodpasteri Brennan and Wharton, 1950 – OH

M: *Microtus pennsylvanicus*, *M. pinetorum*

T. hylae Ewing, 1925 – CA

H: *Hyla arenicolor*

T. irritans Riley, 1873 – MD, NC, OK, VA

H: *Bufo fowleri*, *Terrapene carolina*

B: *Geothlypis trichas*, *Pipilo erythrophthalmus*, *Polioptila caerulea*, *Protonotaria*
citrea, *Setophaga ruticilla*, *Spizella pusilla*, *Thryothorus ludovicianus*

M: *Lepus aquaticus*, *L. californicus*, *Sylvilagus floridanus*

T. kardosi Loomis, 1954 – KS, UT

- H: *Elaphe obsoleta*
- M: *Sciurus niger*, *Tamias umbrinus*
- T. loomisi* Kardos, 1954 – CO, NE, NV
- M: *Mus musculus*, *Perognathus parvus*, *Peromyscus maniculatus*,
Reithrodontomys megalotis
- T. ornata* Loomis and Lipovsky, 1954 – CO, KS
- M: *Neotoma micropus*, *Peromyscus leucopus*, *P. maniculatus*
- T. parkeri* Radford, 1942 – CO
- M: *Ochotona princeps*
- T. pseudoautumnalis* Gould, 1956 – CA
- M: *Thomomys bottae*
- T. rohweri* Ewing, 1942 – MS
- B: *Troglodytes aedon*
- T. sargenti* Brennan, 1952 – UT, WI
- M: *Neotoma sp.*, *Peromyscus leucopus*
- T. tibbettsi* Brennan and White, 1960 – AL, TX
- M: *Mormoops megalophylla*, *Myotis grisescens*
- T. tlalzahuatl* (Murray, 1877) – MD, OH, TX
- H: “King Snake,” *Coluber constrictor*, *Diadophis punctatus*, *Heterodon*
contortrix, *H. platyrhinos*, *Thamnophis sirtalis*
- M: “Jack Rabbit,” *Sylvilagus floridanus*
- T. twentei* Loomis, 1954 – KS
- M: *Antrozous bunkerii*

T. univari Brennan, 1965 – AZ, TX, UT

M: *Antrozous pallidus*, *Corynorhinus townsendii*, *Parastrellus hesperus*

T. usitata Brennan, 1965 – TX

M: *Mormoops megalophylla*

T. varians Brennan and Wharton, 1950 – MT

M: *Spermophilus columbianus*

T. veanda Brennan, 1965 – NV

M: *Neotoma lepida*

Walchia americana Ewing, 1942 – CA, FL, GA, IN, KS, MD, UT, WI, WV

M: *Didelphis virginiana*, *Glaucomys volans*, *Neotoma micropus*, *Peromyscus floridanus*, *P. gossypinus*, *P. leucopus*, *Sciurus carolinensis*, *S. griseus*, *S. niger*, *Sigmodon littoris*, *Sylvilagus floridanus*, *Tamias striatus*, *T. umbrinus*, *Tamiasciurus hudsonicus*

Walchioides whartoni (Brennan, 1960) – TX

M: *Neotoma albigula*, *N. micropus*, *Peromyscus boylii*, *P. eremicus*, *P. pectoralis*, *Reithrodontomys megalotis*

Whartonacarus floridensis Mertins, Hanson and Corn, 2009 – FL

B: *Bubulcus ibis*

Womersia strandtmani Wharton, 1947 – MD, TX

B: *Anas platyrhynchos*, *Pelecanus occidentalis*, *Sterna antillarum*

HOST DISTRIBUTION

The various North American wild vertebrates from which chiggers have been reported are listed alphabetically below, with the chigger species listed for each.

Numbers refer to references in this work.

HERPS (REPTILES/AMPHIBIANS)

“King Snake”

Trombiculidae: *Trombicula tlalzahuatl* [90]

Acris crepitans

Leeuwenhoekiiidae: *Hannemania eltoni* [23]; *H. hegneri* [59]

Acris gryllus

Leeuwenhoekiiidae: *Hannemania dunnii* [183]; *H. eltoni* [55, 183]; *H.*

multifemorala [183]

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *E. lipovskyana* [183]

Agkistrodon contortrix

Trombiculidae: *Eutrombicula alfreddugesi* [55, 145, 183, 200, 323]; *E.*

lipovskyana [183]; *Microtrombicula trisetica* [183, 280]; *Neotrombicula*

sylvilagi [183]

Agkistrodon mokasen

Trombicula: *Eutrombicula alfreddugesi* [109]

Agkistrodon piscivorous

Trombiculidae: *Eutrombicula splendens* [55]

Ambystoma maculatum

Leeuwenhoekiiidae: *Hannemania dunnii* [239]

Ambystoma opacum

Leeuwenhoekidae: *Hannemania dunnii* [239]

Ambystoma tigrinum

Leeuwenhoekidae: *Hannemania eltoni* [183]

Amyda ferox

Trombiculidae: *Eutrombicula masoni* [108, 154]

Anolis carolinensis

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *E. cinnabaris* [320]; *E.*

lipovskyana [55]; *E. masoni* [154]

Arizona elegans

Trombiculidae: *Hyponeocula imitator* [260]; *Parasecia gurneyi* [182-183]

Bufo cognatus

Leeuwenhoekidae: *Hannemania* sp. [83]

Bufo debilis

Leeuwenhoekidae: *Hannemania* sp. [83]

Bufo fowleri

Leeuwenhoekidae: *Hannemania penetrans* [27]

Trombiculidae: *Trombicula irritans* [97]

Bufo microscaphus

Leeuwenhoekidae: *Hannemania* sp. [83]

Bufo punctatus

Leeuwenhoekidae: *Hannemania bufonis* [188, 199-200, 283]; *Hannemania* sp.

[83, 138, 163]

Bufo speciosus

Leeuwenhoekiiidae: *Hannemania* sp [83]

Bufo terrestris

Leeuwenhoekiiidae: *Hannemania multifemorala* [183]

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Bufo woodhousei

Leeuwenhoekiiidae: *Hannemania eltoni* [183]; *H. multifemorala* [183]

Trombiculidae: *Eutrombicula alfreddugesi* [323]; *E. lipovskyana* [183]

Callisaurus draconoides

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [8-9, 103, 197, 233]

Trombiculidae: *Hexidionis lacerticola* [186, 197]

Chionactis occipitalis

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [233]

Trombiculidae: *Hyponeocula fovea* [260]; *H. imitator* [260]

Chrysomys picta

Trombiculidae: *Eutrombicula masoni* [154]

Cnemidophorus gularis

Trombiculidae: *Eutrombicula alfreddugesi* [28]

Cnemidophorus hyperythrus

Trombiculidae: *Trombicula belkini* [24]

Cnemidophorus inornatus

Trombiculidae: *Eutrombicula alfreddugesi* [188, 200]

Cnemidophorus sacki

Trombiculidae: *Eutrombicula alfreddugesi* [191]

Cnemidophorus sexlineatus

Trombiculidae: *Eutrombicula alfreddugesi* [55, 115, 120, 154, 183, 191, 242, 323]; *E. cinnabaris* [320]; *E. masoni* [108, 154]

Cnemidophorus tessellatus

Trombiculidae: *Eutrombicula alfreddugesi* [120]; *Trombicula belkini* [135, 273]

Cnemidophorus tigris

Leeuwenhoekiidae: *Acomatacarus arizonensis* [8, 197]; *Odontacarus pinnatus* [128]

Trombiculidae: *Eutrombicula alfreddugesi* [120, 188, 200]; *Hexidionis lacerticola* [186, 197]; *Hyponeocula arenicola* [260]; *H. fovea* [260]; *H. luciae* [260]; *Trombicula belkini* [8, 39, 41, 197, 233]

Coleonyx brevis

Trombiculidae: *Hyponeocula arenicola* [188, 200]; *Parasecia gurneyi* [188]

Coleonyx reticulatus

Trombiculidae: *Fonsecia kansasensis* [200]

Coleonyx variegates

Leeuwenhoekiidae: *Acomatacarus arizonensis* [9]; *Odontacarus shawi* [37, 233]

Trombiculidae: *Hyponeocula arenicola* [9, 260]; *H. fovea* [260]; *H. imitator* [260]

Coluber constrictor

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183, 247, 323]; *E. lipovskyana* [183]; *E. masoni* [104, 154]; *E. splendens* [146]; *Fonsecia kansasensis*

[182-183]; *Neotrombicula sylvilagi* [183]; *Trombicula tlalzahuatl* [214-215]

Coluber flaviventris

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Coluber taeniatus

Leeuwenhoekiiidae: *Odontacarus linsdalei* [5, 324]

Trombiculidae: *Hyponeocula arenicola* [5, 39, 324]

Cophosaurus texanus

Leeuwenhoekiiidae: *Odontacarus pinnatus* [128]; *Odontacarus* n. sp. [200]

Crotalus atrox

Trombiculidae: *Eutrombicula alfreddugesi* [28, 188, 200]; *Hyponeocula montanensis* [188]

Crotalus horridus

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323];
Fonsecia kansasensis [182-183]; *Parasecia gurneyi* [182-183]

Crotalus molossus

Trombiculidae: *Eutrombicula alfreddugesi* [200]

Crotalus scutulatus

Trombiculidae: *Hyponeocula arenicola* [188]; *H. montanensis* [188]

Crotalus viridis

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *Hyponeocula montanensis* [183, 260]; *Parasecia gurneyi* [182-183]

Crotaphytus collaris

Leeuwenhoekiidae: *Acomatacarus arizonensis* [9, 39, 114, 183, 188, 197];

Odontacarus pinnatus [128]

Trombiculidae: *Euschoengastoides longitarsala* [197, 233]; *Eutrombicula alfreddugesi* [28, 55, 105, 114, 120, 154, 183, 209, 323]; *E. lipovskyana* [114, 183, 323]; *Hexidionis lacerticola* [186, 197]; *Trombicula belkini* [39]

Crotaphytus reticulatus

Leeuwenhoekiidae: *Acomatacarus arizonensis* [217]; *Odontacarus pinnatus* [128]

Trombiculidae: *Eutrombicula alfreddugesi* [217]

Crotaphytus wislizeni

Leeuwenhoekiidae: *Acomatacarus arizonensis* [197, 233]

Trombiculidae: *Euschoengastoides longitarsala* [197, 233]; *Hexidionis lacerticola* [186, 197]

Desmognathus fuscus

Leeuwenhoekiidae: *Hannemania dunnii* [249, 284]

Diadophis punctatus

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183]; *Trombicula tlalzahuatl* [214-215]

Dipsosaurus dorsalis

Leeuwenhoekiidae: *Acomatacarus arizonensis* [9, 135, 197, 233]

Trombiculidae: *Euschoengastoides longitarsala* [197, 233]

Drymarchon corais

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *E. masoni* [154]; *E. splendens* [247]

Elaphe guttata

Trombiculidae: *Eutrombicula alfreddugesi* [183, 247]

Elaphe obsoleta

Trombiculidae: *Eutrombicula alfreddugesi* [28, 55, 105, 154, 183, 323]; *E. lipovskyana* [183, 230]; *E. masoni* [154]; *Fonsecia palmella* [156]; *Hemitrombicula simplex* [102]; *Leptotrombidium myotis* [183]; *Microtrombicula trisetica* [55, 183, 223, 280]; *Neotrombicula fitchi* [181, 183]; *Parasecia gurneyi* [182-183]; *Trombicula kardosi* [181, 183]

Elaphe quadrivittata

Trombiculidae: *Eutrombicula splendens* [247]

Elaphe subocularis

Trombiculidae: *Eutrombicula alfreddugesi* [188]; *Fonsecia* (P.) n. sp. [200]; *Hyponeocula montanensis* [200]

Elaphe vulpine

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Eleutherodactylus guttilatus

Leeuwenhoekidae: *Hannemania hylae* [163]

Eleutherodactylus marnockii

Leeuwenhoekidae: *Hannemania monticola* [206]

Eumeces brevilineatus

Trombiculidae: *Eutrombicula alfreddugesi* [188, 200]

Eumeces fasciatus

Trombiculidae: *Eutrombicula alfreddugesi* [112, 154, 183, 241, 323]; *E. masoni* [154]; *Fonsecia palmella* [43]; *Parasecia gurneyi* [55, 101, 104, 112, 154, 182-183]

Eumeces inexpectatus

Trombiculidae: *Fonsecia palmella* [43]; *Parasecia gurneyi* [182, 320]

Eumeces laticeps

Trombiculidae: *Eutrombicula alfreddugesi* [154, 242]; *E. masoni* [154]; *Fonsecia palmella* [241-242]; *Microtrombicula trisetica* [41, 183, 190, 280]; *Parasecia gurneyi* [55, 182-183, 242]

Eumeces obsoletus

Trombiculidae: *Eutrombicula alfreddugesi* [112-113, 183, 200, 212, 323]; *E. lipovskyana* [113, 183, 323]; *Parasecia gurneyi* [182-183]

Eumeces skiltonianus

Trombiculidae: *Kayella lacerta* [20]; *Trombicula belkini* [20]

Eurycea cirrigera

Leeuwenhoekiiidae: *Hannemania dunnii* [251, 284]

Eurycea gutto-lineata

Leeuwenhoekiiidae: *Hannemania dunnii* [239]

Gambelia wislizenii

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [8-9, 39]

Trombiculidae: *Trombicula belkini* [8-9, 39]

Gastrophryne olivacea

Leeuwenhoekiidae: *Hannemania multifemorala* [183]

Gerrhonotus liocephalus

Trombiculidae: *Eutrombicula alfreddugesi* [188, 200]

Gerrhonotus multicarinatus

Trombiculidae: *Kayella lacerta* [233]; *Neotrombicula dinehartae* [135];

Trombicula belkini [135, 233, 273]

Gopherus berlandieri

Trombiculidae: *Eutrombicula alfreddugesi* [125]

Gopherus polyphemus

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *E. masoni* [154]

Heterodon contortrix

Trombiculidae: *Eutrombicula alfreddugesi* [28, 105, 154]; *E. masoni* [154];

Trombicula tlalzahuatl [214]

Heterodon nasicus

Trombiculidae: *Eutrombicula alfreddugesi* [55, 120, 183, 323]; *Hyponeocula arenicola* [200]; *H. montanensis* [55, 183]; *Parasecia gurneyi* [55, 182]

Heterodon platyrhinos

Trombiculidae: *Eutrombicula alfreddugesi* [55, 183]; *Hyponeocula montanensis* [55]; *Neotrombicula lipovskyi* [55]; *Parasecia gurneyi* [182]; *Trombicula tlalzahuatl* [215]

Heterodon simus

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *E. masoni* [154]

Holbrookia maculata

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *E. batatas* [21]

Holbrookia texana

Leeuwenhoekiidae: *Acomatacarus arizonensis* [188]

Trombiculidae: *Eutrombicula alfreddugesi* [188, 191]

Hyla arenicolor

Leeuwenhoekiidae: *Hannemania hylae* [92, 135, 163, 188, 199]

Hyla cadaverina

Leeuwenhoekiidae: *Hannemania hylae* [199, 283]

Hyla squirrela

Trombiculidae: *Eutrombicula masoni* [108, 154]

Hypsiglena torquata

Trombiculidae: *Fonsecia* n. sp. [188, 200]

Kinosternon subrubrum

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Lampropeltis calligaster

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]

Lampropeltis getulus

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183, 200, 323]; *E. lipovskyana* [183]; *E. masoni* [154]; *E. splendens* [247]; *Fonsecia* n. sp. [200]; *Hyponeocula arenicola* [9, 200, 260]; *H. imitator* [260]; *Parasecia gurneyi* [182]

Lampropeltis triangulum

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *Parasecia gurneyi* [182-183]

Masticophis flagellum

Leeuwenhoekidae: *Odontacarus shawi* [233]

Trombiculidae: *Eutrombicula alfreddugesi* [28, 183, 200, 212]; *E. cinnabaris* [320]; *E. splendens* [320]; *Hyponeocula arenicola* [9, 200, 233]; *H. fovea* [260]; *H. luciae* [260]; *H. montanensis* [55, 183, 200]; *Kayella lacerta* [233]; *Parasecia gurneyi* [182-183]

Masticophis taeniatus

Trombiculidae: *Eutrombicula alfreddugesi* [28, 200]

Microhyla olivacea

Leeuwenhoekidae: *Hannemania multifemorala* [55]

Micrurus fulvius

Trombiculidae: *Eutrombicula masoni* [154]

Natrix erythrogaster

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]

Natrix rhombifera

Trombiculidae: *Eutrombicula alfreddugesi* [183]

Natrix sipedon

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *Parasecia gurneyi* [155]

Opheodrys aestivus

Trombiculidae: *Eutrombicula alfreddugesi* [28, 154]; *E. masoni* [154]

Ophisaurus attenuatus

Trombiculidae: *Eutrombicula alfreddugesi* [183]

Phrynosoma cornuta

Trombiculidae: *Eutrombicula alfreddugesi* [28]

Phrynosoma coronatum

Leeuwenhoekidae: *Acomatacarus arizonensis* [17, 135, 197, 233]

Trombiculidae: *Euschoengastoides longitarsala* [197, 233]; *Eutrombicula alfreddugesi* [55]; *Trombicula belkini* [41, 134-135, 233, 273]

Phrynosoma douglassi

Trombiculidae: *Trombicula belkini* [6]

Phrynosoma modestum

Leeuwenhoekidae: *Odontacarus pinnatus* [128]

Trombiculidae: *Eutrombicula alfreddugesi* [188, 200]

Phrynosoma platyrhinos

Leeuwenhoekidae: *Acomatacarus arizonensis* [8, 197]

Trombiculidae: *Euschoengastoides longitarsala* [197, 233]; *Hexidionis lacerticola* [186, 197]; *Trombicula belkini* [8-9]

Phyllorhynchus decurtatus

Leeuwenhoekidae: *Odontacarus shawi* [233]

Trombiculidae: *Hyponeocula arenicola* [9, 233]; *H. fovea* [260]

Pituophis catenifer

Leeuwenhoekidae: *Odontacarus linsdalei* [5, 324]

Trombiculidae: *Eutrombicula alfreddugesi* [55, 183, 323]; *Fonsecia kansasensis* [182-183]; *Hyponeocula arenicola* [5, 9, 39, 324]; *H. montanensis* [183]; *Trombicula belkini* [135]

Pituophis melanoleucus

Trombiculidae: *Euschoengastia alfreddugesi* [88]; *Hyponeocula arenicola* [260];
H. montanensis [88]

Plethodon caddoensis

Leeuwenhoekidae: *Hannemania dunnii* [16, 55]

Plethodon cylindraceus

Leeuwenhoekidae: *Hannemania dunnii* [284]

Plethodon glutinosus

Leeuwenhoekidae: *Hannemania dunnii* [239]

Plethodon ouachitae

Leeuwenhoekidae: *Hannemania dunnii* [16]

Pseudotriton montanus

Leeuwenhoekidae: *Hannemania dunnii* [239]

Rana berlandieri

Leeuwenhoekidae: *Hannemania* sp. [163]

Rana catesbiana

Leeuwenhoekidae: *Hannemania penetrans* [27]

Rana palustris

Leeuwenhoekidae: *Hannemania dunnii* [221]

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Rana pipiens

Leeuwenhoekidae: *Hannemania eltoni* [55, 183], *H. hegneri* [59, 147]; *H. mexicana* [188, 200]; *H. multifemoralis* [55, 183]; *H. penetrans* [99]

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183]

Rana sphenocephala

Leeuwenhoekiidae: *Hannemania eltoni* [249]; *H. penetrans* [27]

Rhinocheilus lecontei

Trombiculidae: *Fonsecia* (P.) n. sp. [200]

Salvadora hexalepis

Trombiculidae: *Eutrombicula alfreddugesi* [200]; *Hyponeocula fovea* [260]

Scaphiopus bombifrons

Leeuwenhoekiidae: *Hannemania* sp [83]

Sceloporus graciosus

Trombiculidae: *Eutrombicula alfreddugesi* [72]; *Neotrombicula californica* [131, 196]; *Trombicula belkini* [6, 39, 135, 273]

Sceloporus jarrovii

Leeuwenhoekiidae: *Acomatacarus arizonensis* [55]

Trombiculidae: *Eutrombicula lipovskyana* [133]; *Hyponeocula sauricola* [260]

Sceloporus magister

Leeuwenhoekiidae: *Acomatacarus arizonensis* [8, 33, 135, 188, 197]

Trombiculidae: *Euschoengastoides longitarsala* [197, 233]; *Eutrombicula alfreddugesi* [188]; *E. batatas* [21]; *Hexidionis lacerticola* [186, 197]; *Trombicula belkini* [8, 197]

Sceloporus merriami

Leeuwenhoekiidae: *Acomatacarus arizonensis* [188, 200]

Trombiculidae: *Eutrombicula alfreddugesi* [188, 200]

Sceloporus occidentalis

Leeuwenhoekiidae: *Acomatacarus arizonensis* [197]; *Odontacarus micheneri* [8]

Trombiculidae: *Euschoengastoides longitarsala* [233]; *Hexidionis lacerticola* [186, 197]; *Kayella lacerta* [32, 109]; *Neotrombicula californica* [196]; *N. harperi* [197]; *Trombicula belkini* [8, 41, 55, 135, 152, 197, 273, 282]

Sceloporus olivaceus

Trombiculidae: *Eutrombicula alfreddugesi* [28, 120, 191]

Sceloporus orcutti

Leeuwenhoekiidae: *Acomatacarus arizonensis* [233]

Trombiculidae: *Trombicula belkini* [233]

Sceloporus poinsettia

Trombiculidae: *Eutrombicula alfreddugesi* [188, 200]

Sceloporus scalaris

Trombiculidae: *Eutrombicula chiricahuae* [22]

Sceloporus spinosus

Trombiculidae: *Neoschongastia scelopori* [99]

Sceloporus undulatus

Trombiculidae: *Eutrombicula alfreddugesi* [28, 55, 72, 109, 120, 154, 183, 188, 200, 241-242, 247, 323]; *E. cinnabaris* [320, 338]; *E. masoni* [154]; *E. splendens* [247]; *Neoschongastia americana* [58]; *Parasecia gurneyi* [182]

Sceloporus virgatus

Trombiculidae: *Eutrombicula chiricahuae* [22]

Sceloporus woodi

Trombiculidae: *Eutrombicula masoni* [154]

Sistrurus miliarius

Trombiculidae: *Eutrombicula splendens* [247]

Sonora episcopa

Trombiculidae: *Eutrombicula alfreddugesi* [323]

Syrrhophus guttulatus

Leeuwenhoekidae: *Hannemania hylae* [188]

Syrrhophus marnockii

Leeuwenhoekidae: *Hannemania* sp. [204]

Terrapene carolina

Trombiculidae: *Eutrombicula alfreddugesi* [109, 154]; *E. lipovskyana* [230]; *E. masoni* [154]; *E. splendens* [247]; *Trombicula irritans* [93, 100]

Terrapene ornata

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323];
Hyponeocula montanensis [183]

Thamnophis cyrtopsis

Trombiculidae: *Eutrombicula alfreddugesi* [188]

Thamnophis marcianus

Trombiculidae: *Eutrombicula alfreddugesi* [28, 120, 188, 200]

Thamnophis ordinoides

Trombiculidae: *Neotrombicula dinehartae* [52]

Thamnophis radix

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]

Thamnophis sauritus

Trombiculidae: *Eutrombicula alfreddugesi* [28, 183, 323]; *E. splendens* [328]

Thamnophis sirtalis

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183, 323]; *E. lipovskyana* [183, 323]; *E. masoni* [154]; *E. splendens* [323, 328]; *Fonsecia kansasensis* [182-183]; *Neotrombicula dinehartae* [52]; *Parasecia gurneyi* [155, 328];
Trombicula tlalzahuatl [214-215]

Trimorphodon vandenburghi

Trombiculidae: *Trombicula belkini* [233]

Tropidoclonion lineatum

Trombiculidae: *Eutrombicula alfreddugesi* [183]

Urosaurus graciosus

Leeuwenhoekidae: *Acomatacarus arizonensis* [197]

Urosaurus ornatus

Trombiculidae: *Eutrombicula alfreddugesi* [200, 323]

Uta mearnsi

Leeuwenhoekidae: *Acomatacarus arizonensis* [233]

Trombiculidae: *Euschoengastoides longitarsala* [233]; *Trombicula belkini* [233]

Uta ornata

Trombiculidae: *Parasecia gurneyi* [182]

Uta stansburiana

Leeuwenhoekidae: *Acomatacarus arizonensis* [5, 8-9, 20, 39, 197, 233, 257];
Odontacarus linsdalei [5]; *O. pinnatus* [128]

Trombiculidae: *Euschoengastoides longitarsala* [233, 257]; *Eutrombicula alfreddugesi* [120, 188]; *Hexidionis lacerticola* [186, 197]; *Hyponeocula fovea* [260]; *Neotrombicula californica* [131-132]; *N. harperi* [197]; *N. superciliaris* [196]; *Trombicula belkini* [8, 20, 39, 41, 120, 198, 233, 257, 273]

AVES

Agelatus phoeniceus

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323]

Aimophila ruficeps

Trombiculidae: *Neoschongastia americana* [210]

Ammodramus henslowi

Trombiculidae: *Neotrombicula bisignata* [44]

Amphispiza belli

Trombiculidae: *Euschoengastia radfordi* [6]; *Neoschongastia americana* [39, 210]

Amphispiza bilineata

Trombiculidae: *Eutrombicula alfreddugesi* [191]; *Neoschongastia americana* [191]

Anas platyrhynchos

Leeuwenhoekiiidae: *Whomersia strandtmani* [51]

Antrostomus carolinensis

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Aphelocoma californica

Trombiculidae: *Neoschongastia americana* [210]

Aphelocoma coerulescens

Trombiculidae: *Euschoengastia numerosa* [334]

Asio otus

Trombiculidae: *Neotrombicula lipovskyi* [164, 183]

Baeolophus bicolor

Trombiculidae: *Eutrombicula alfreddugesi* [154, 242]

Bartramia longicauda

Trombiculidae: *Eutrombicula alfreddugesi* [323]; *E. lipovskyana* [183, 323]

Bubo virginianus

Trombiculidae: *Euschoengastia decipiens* [39]; *E. numerosa* [334]

Bulbulcus ibis

Trombiculidae: *Whartonacarus floridensis* [213]

Buteo jamaicensis

Trombiculidae: *Eutrombicula alfreddugesi* [183]

Calamospiza melanocorys

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *Neoschongastia brennani*
[58]

Campylorhynchus brunneicapillus

Trombiculidae: *Neoschongastia americana* [210]

Capella gallinago

Trombiculidae: *Neotrombicula subsignata* [164]

Cardinalis cardinalis

Trombiculidae: *Euschoengastia diversa* [183]; *Eutrombicula alfreddugesi* [109, 183, 323]; *E. cinnabaris* [320]; *E. lipovskyana* [183, 323]; *Neoschongastia americana* [58, 89, 183]; *Neotrombicula lipovskyi* [164, 183]; *N. sylvilagi* [164, 183]; *N. whartoni* [164, 183]

Carpodacus purpureus

Trombiculidae: *Euschoengastia numerosa* [334]; *E. radfordi* [41]

Catharus guttus

Trombiculidae: *Neoschongastia americana* [210]; *N. whartoni* [320]

Catherpes mexicanus

Trombiculidae: *Neoschongastia americana* [210]

Centrocercus urophasianus

Trombiculidae: *Euschoengastia radfordi* [6]

Centurus carolinus

Trombiculidae: *Neotrombicula lipovskyi* [164, 183]

Charadrius vociferous

Trombiculidae: *Neoschongastia americana* [89]

Chondestes grammacus

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183];

Neoschongastia americana [58, 183, 210]; *N. brennani* [58, 183]

Chordeiles acutipennis

Trombiculidae: *Neoschongastia americana* [191]

Chordeiles minor

Trombiculidae: *Euschoengastia radfordi* [6]

Coccyzus americanus

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *Neoschongastia americana* [89]

Colaptes auratus

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183]; *E. masoni* [154]

Colinus virginianus

Trombiculidae: *Eutrombicula alfreddugesi* [55, 71, 154, 183, 323]; *E. batatas*

[154]; *E. lipovskyana* [183, 323]; *E. masoni* [154]; *Neoschongastia americana* [55, 71, 89, 183, 287]; *Neotrombicula sylvilagi* [164, 183]; *N. whartoni* [71, 318]

Coragyps virginianus

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Corvus brachyrhynchos

Trombiculidae: *Euschoengastia peromysci* [183]; *Eutrombicula alfreddugesi* [183, 323]; *Neoschongastia americana* [89]

Crotophaga sulcirostris

Trombiculidae: *Neoschongastia americana* [58]

Cyanocitta cristata

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *Hyponeocula montanensis* [183]; *Neotrombicula whartoni* [44]

Dendrocopos scalaris

Trombiculidae: *Neoschongastia americana* [89]

Dendroica coronata

Trombiculidae: *Neoschongastia americana* [210]

Dryobates villosus

Trombiculidae: *Eutrombicula alfreddugesi* [109]

Dumetella carolinensis

Trombiculidae: *Blankaartia sinnamayri* [38]; *Eutrombicula alfreddugesi* [183];
Neoschongastia americana [183]

Eremophila alpestris

Trombiculidae: *Euschoengastia radfordi* [6]; *Eutrombicula alfreddugesi* [183,
323]; *Hyponeocula arenicola* [6]; *Neoschoengastia rebeccannae* [38]

Euphagus cyanocephalus

Trombiculidae: *Neoschongastia americana* [210]

Geococcyx californicus

Trombiculidae: *Eutrombicula alfreddugesi* [105, 154, 212]; *Neoschongastia
americana* [58, 84, 191, 200]

Geothlypis trichas

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *E. cinnabaris* [320];
Trombicula irritans [95]

Grus canadensis

Trombiculidae: *Blankaartia sinnamayri* [255]

Heleodytes brunneicapillus

Trombiculidae: *Neoschongastia americana* [191]

Hylocichla guttata

Trombiculidae: *Neotrombicula whartoni* [242]

Hylocichla mustelina

Trombiculidae: *Blankaartia sinnamayri* [38]

Hylocichla ustulata

Trombiculidae: *Trombicula alaskensis* [44]

Icteria virens

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Icterus galbula

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]

Ixobrychus exilis

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Junco caniceps

Trombiculidae: *Euschoengastia numerosa* [334]; *E. radfordi* [39, 41]

Junco hyemalis

Trombiculidae: *Neoschongastia americana* [210]; *Neotrombicula harperi* [44, 164]; *N. sylvilagi* [164, 183]; *N. whartoni* [44, 164, 183]

Junco oreganus

Trombiculidae: *Euschoengastia radfordi* [6, 41]; *Neoschongastia americana* [39]

Lanius ludovicianus

Trombiculidae: *Euschoengastia radfordi* [6]; *Neoschongastia americana* [89]

Larus philadelphia

Trombiculidae: *Eutrombicula goeldii* [52]

Leucosticte tephrocotis

Trombiculidae: *Euschoengastia radfordi* [6]

Lophortyx californica

Trombiculidae: *Euschoengastia numerosa* [334]; *E. radfordi* [15, 41];

Neoschongastia americana [135]

Megaceryle alcyon

Trombiculidae: *Eutrombicula alfreddugesi* [25]; *Neoschongastia americana* [89]

Melanerpes erythrocephalus

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *Microtrombicula crossleyi* [55, 181, 183, 280]; *Neoschongastia brennani* [55, 58, 183]; *Parasecia gurneyi* [182-183]

Meleagris gallopavo

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *Neoschongastia americana* [167, 287]; *Trombicula belkini* [135]

Melospiza georgiana

Trombiculidae: *Neotrombicula waynensis* [44]

Melospiza lincolni

Trombiculidae: *Neoschongastia americana* [210]; *Neotrombicula microti* [39]

Melospiza melodia

Trombiculidae: *Euschoengastia radfordi* [41]; *Neoschongastia americana* [210]; *Neotrombicula harperi* [44, 328]; *N. lipovskyi* [164, 183]; *N. microti* [328]

Mimus polyglottos

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *E. batatas* [154];

Neoschongastia americana [89, 210]; *Neotrombicula whartoni* [242]

Molothrus ater

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323];

Neoschongastia americana [89, 183]

Muscivora forficata

Trombiculidae: *Hyponeocula arenicola* [181, 183, 260]; *Neoschongastia*

brennani [58, 183]

Myiarchus crinitus

Trombiculidae: *Eutrombicula alfreddugesi* [154, 242]

Oreortyx picta

Trombiculidae: *Euschoengastia numerosa* [334]; *E. radfordi* [41];

Neoschongastia americana [41]

Otis asio

Trombiculidae: *Neoschongastia americana* [89]

Otocoris alpestris

Trombiculidae: *Neoschongastia americana* [39]

Parabuteo unicinctus

Trombiculidae: *Neoschongastia americana* [191]

Parus atricapillus

Trombiculidae: *Euschoengastia diversa* [183]; *Neotrombicula lipovskyi* [164,

183]

Parus bicolor

Trombiculidae: *Eutrombicula alfreddugesi* [323]; *Neotrombicula whartoni* [164,

183]

Parus carolinensis

Trombiculidae: *Eutrombicula lipovskyana* [323]

Parus inornatus

Trombiculidae: *Euschoengastia radfordi* [41]

Passer domesticus

Trombiculidae: *Euschoengastia diversa* [183]; *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323]; *Neoschongastia americana* [89, 183];
Neotrombicula harperi [53]

Passerculus sandwichensis

Trombiculidae: *Neoschongastia americana* [210]

Passerina ciris

Trombiculidae: *Neoschongastia americana* [89]

Pelecanus occidentalis

Trombiculidae: *Womersia strandtmani* [286]

Penthestes carolinensis

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Petrochelidon pyrrhonota

Trombiculidae: *Neoschongastia paenitens* [34]

Phalaenoptilus nuttallii

Trombiculidae: *Neoschongastia americana* [287]

Phasianus colchicus

Trombiculidae: *Eutrombicula alfreddugesi* [105, 154]

Pipilo coronata

Trombiculidae: *Neoschongastia americana* [210]

Pipilo erythrophthalmus

Trombiculidae: *Eutrombicula alfreddugesi* [154, 323]; *E. batatas* [154]; *E. splendens* [323]; *Neotrombicula whartoni* [44, 242]; *Trombicula irritans* [95]

Pipilo fuscus

Trombiculidae: *Euschoengastia radfordi* [41, 135]; *Neoschongastia americana* [135]

Pipilo maculatus

Trombiculidae: *Euschoengastia radfordi* [15]; *Neoschongastia americana* [210]

Piranga rubra

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183, 242, 323]

Poecile carolinensis

Trombiculidae: *Eutrombicula alfreddugesi* [242]

Polioptila caerulea

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *E. masoni* [154]; *Trombicula irritans* [95]

Protonotaria citrea

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *Trombicula irritans* [95]

Pyrrhuloxia sinuate

Trombiculidae: *Neoschongastia americana* [58]

Quiscalus quiscula

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323];
Neoschongastia americana [89]

Rallus elegans

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *E. lipovskyana* [183];
Neoschongastia americana [183]

Rallus longirostris

Trombiculidae: *Blankaartia pauli* [56, 247]

Riparia riparia

Trombiculidae: *Mackiena migratoria* [222]

Salpinctes obsoletus

Trombiculidae: *Neoschongastia americana* [39, 188, 191]

Scardafella inca

Trombiculidae: *Neoschongastia americana* [89]

Seiurus aurocapillus

Trombiculidae: *Neotrombicula microti* [328]

Seiurus motacilla

Trombiculidae: *Trombicula subignata* [44]

Setophaga ruticilla

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *Trombicula irritans* [95]

Sialia sialis

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323];
Neoschongastia americana [183]

Speotyto cunicularia

Trombiculidae: *Hyponeocula montanensis* [183]; *Neoschongastia americana* [183]; *Parasecia gurneyi* [182-183]

Spiza americana

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323]; *Neoschongastia americana* [183]

Spizella passerina

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]

Spizella pusilla

Trombiculidae: *Eutrombicula alfreddugesi* [154, 323]; *Trombicula irritans* [95]

Sterna antillarum

Trombiculidae: *Womersia strandtmani* [191]

Strix varia

Trombiculidae: *Eutrombicula cinnabaris* [320]; *E. splendens* [320]; *Parasecia gurneyi* [320]

Sturnella magna

Trombiculidae: *Acariscus hominis* [104]; *Eutrombicula alfreddugesi* [154, 183, 323]; *E. batatas* [154]; *E. lipovskyana* [183, 323]; *E. multisetosa* [104, 247]; *Neoschongastia americana* [89]

Sturnella neglecta

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. batatas* [183, 323]; *E. lipovskyana* [183, 323]; *Neotrombicula lipovskyi* [164, 183]

Sturnus vulgaris

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183, 323];
Neotrombicula harperi [53]

Thryomanes bewicki

Trombiculidae: *Eutrombicula alfreddugesi* [154]; *Neoschongastia americana*
[191, 210]

Thryothorus ludovicianus

Trombiculidae: *Eutrombicula alfreddugesi* [109, 154, 323]; *E. cinnabaris* [320];
E. masoni [154]; *E. splendens* [109]; *Neotrombicula whartoni* [44];
Trombicula irritans [95]

Toxostoma curvirostre

Trombiculidae: *Neoschoengastia americana* [191]; *N. brennani* [38]

Toxostoma redivivum

Trombiculidae: *Euschoengastia numerosa* [334]; *E. radfordi* [41, 135];
Neoschongastia americana [210]

Toxostoma rufum

Trombiculidae: *Acariscus hominis* [104]; *Eutrombicula alfreddugesi* [154, 183,
323]; *E. batatas* [154]; *E. lipovskyana* [323]; *E. masoni* [154];
Neoschongastia americana [58-59, 183, 242]; *Neotrombicula whartoni*
[242]; *Parasecia gurneyi* [59]; *Trombicula autumnalis* [59]

Troglodytes aedon

Trombiculidae: *Eutrombicula alfreddugesi* [183, 323]; *E. cinnabaris* [320]; *E.*
lipovskyana [183, 323]; *Neoschongastia americana* [89, 210];

Neotrombicula cavicola [44]; *N. whartoni* [164, 242]; *Trombicula rohweri*
[103]

Turdus migratorius

Trombiculidae: *Eutrombicula alfreddugesi* [109, 183, 323]; *E. lipovskyana* [183,
323]; *Neoschongastia americana* [183]; *Neotrombicula harperi* [53]; *N.*
sylvilagi [164, 183]

Tympanuchus cupido

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183]; *E. lipovskyana* [183];
Neoschongastia americana [183]

Tyrannus tyrannus

Trombiculidae: *Eutrombicula lipovskyana* [183, 323]; *Neoschongastia brennani*
[58, 183]

Vireo griseus

Trombiculidae: *Neoschongastia americana* [58]

Vireo olivaceus

Trombiculidae: *Eutrombicula alfreddugesi* [154, 242]

Zenaidura macroura

Trombiculidae: *Eutrombicula alfreddugesi* [55, 154, 183, 323]; *E. lipovskyana*
[183, 323]

Zonotrichia albicollis

Trombiculidae: *Eutrombicula cinnabaris* [320]; *Neoschongastia americana* [210];
Neotrombicula whartoni [44, 59]

Zonotrichia atricapilla

Trombiculidae: *Neoschongastia americana* [210]

Zonotrichia coronata

Trombiculidae: *Euschoengastia latchmani* [15, 46, 334]; *E. numerosa* [334]; *E. radfordi* [15, 41, 135]; *Neotrombicula californica* [135]

Zonotrichia leucophrys

Trombiculidae: *Euschoengastia decipiens* [6]; *E. radfordi* [41]; *Neoschongastia americana* [41, 210]

Zonotrichia querula

Trombiculidae: *Neotrombicula whartoni* [164, 183]

MAMMALIA

“Gopher”

Leeuwenhoekidae: *Leeuwenhoekia americana* [135]

“Ground Squirrel”

Trombiculidae: *Euschoengastia ambocalis* [91]

“Jack Rabbit”

Trombiculidae: *Trombicla tlalzahuatl* [90]

“Mole”

Trombiculidae: *Euschoengastia oregonensis* [98, 109]

Ammospermophilus interpres

Trombiculidae: *Parasecia gurneyi* [188]

Ammospermophilus leucurus

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastia ambocalis* [333];
Euschoengastoides imperfectus [187]; *E. neotomae* [187]; *Otorhinophila*
desertorum [201]; *O. xerophila* [201]

Antrozous bunkeri

Trombiculidae: *Euschoengastoides hoplai* [183]; *T. twentei* [181, 183]

Antrozous pacificus

Leeuwenhoekiiidae: *Whartonia perplexa* [135]

Antrozous pallidus

Leeuwenhoekiiidae: *Albeckia albecki* [275]; *A. senase* [245]; *Whartonia*
carpenteri [70]; *W. perplexa* [12, 26, 39, 171, 200, 295, 317]

Trombiculidae: *Euschoengastoides neotomae* [187]; *Leptotrombidium myotis*
[274, 317]; *Loomisia sprocssi* [38]; *T. univari* [38]

Aplodontia rufa

Leeuwenhoekiiidae: *Odontacarus hirsutus* [135, 153]

Trombiculidae: *Aplodontophila aplodontiae* [30, 135, 335]; *A. pacifica* [335];
Euschoengastia maseri [329]; *Neotrombicula jewetti* [153]

Bassariscus astutus

Leeuwenhoekiiidae: *Odontacarus hirsutus* [12]

Trombiculidae: *Euschoengastia eadsi* [63]; *Pseudoschongastia apista* [63]

Blarina brevicauda

Leeuwenhoekiiidae: *Leeuwenhoekia americana* [151]

Trombiculidae: *Euschoengastia blarinae* [99, 109, 151, 207, 223, 242, 304, 328];
E. diversa [183]; *E. jamesoni* [32, 162, 242, 272, 304]; *E. jonesi* [302]; *E.*

peromysci [109, 241, 266, 304]; *E. trigenulala* [59, 183]; *Miyatrombicula*
esoensis [296]; *Neotrombicula cavicola* [302]; *N. harperi* [44]; *N.*
lipovskyi [164, 183]; *N. microti* [44, 162, 337]; *Parasecia gurneyi* [59,
182-183]

Blarina carolinensis

Leeuwenhoekiidae: *Leeuwenhoekia americana* [225, 300]

Blarina hylophaga

Trombiculidae: *Euschoengastia diversa* [246]; *Neotrombicula fitchi* [246]

Canis latrans

Trombiculidae: *Euschoengastia diversa* [183]; *Eutrombicula alfreddugesi* [293,
299, 303]; *Neotrombicula lipovskyi* [44, 164, 183]

Castor canadensis

Trombiculidae: *Neotrombicula whartoni* [223, 242]

Cervus nippon

Trombiculidae: *Eutrombicula splendens* [65]

Cervus unicolor

Trombiculidae: *Eutrombicula splendens* [64]

Chaetodipus hispidus

Leeuwenhoekiidae: *Odontacarus dentatus* [263]

Trombiculidae: *Cheladonta micheneri* [263]; *Euschoengastia decipiens* [263];

Hyponeocula montanensis [263]

Condylura cristata

Trombiculidae: *Neotrombicula bisignata* [44]

Corynorhinus townsendii

Leeuwenhoekiiidae: *Albeckia senase* [244]; *Shunsennia ochotona* [6]

Trombiculidae: *Leptotrombidium myotis* [267]; *Trombicula univari* [38]

Cryptotis parva

Trombiculidae: *Cheladonta ouachitensis* [55, 178]; *Euschoengastia jonesi* [179, 183]; *E. setosa* [55]; *Eutrombicula alfreddugesi* [183, 323]; *E. lipovskyana* [183]; *Neotrombicula sylvilagi* [164, 183]; *Pseudoschongastia farneri* [177, 183]

Cynomys leucurus

Trombiculidae: *Euschoengastia obesa* [39]; *Hyponeocula montanensis* [39, 260]

Cynomys ludovicianus

Leuwenhoekiiidae: *Odontacarus dentatus* [191]

Trombiculidae: *Cheladonta micheneri* [55, 178, 183]; *Euschoengastia criceticola* [183]; *E. cynomyicola* [55, 57, 183]; *Euschoengastoides hoplai* [55, 181, 183, 187]; *E. loomisi* [55, 183]; *Eutrombicula alfreddugesi* [183]; *Hyponeocula montanensis* [30, 55, 84, 183, 260]; *Kayella lacerta* [183]; *Neoschongastia americana* [191]; *Parasecia gurneyi* [182-183]

Cynomys parvidens

Trombiculidae: *Hyponeocula arenicola* [39, 260]

Dasypus novemcinctus

Trombiculidae: *Eutrombicula alfreddugesi* [212]

Didelphis virginiana

Trombiculidae: *Eutrombicula alfreddugesi* [109, 154, 220, 234, 293, 301, 303, 323]; *E. batatas* [154]; *E. masoni* [104, 154]; *E. splendens* [81, 220, 247]; *Leptotrombidium peromysci* [81, 234]; *Neotrombicula cavicola* [81]; *N. dinehartae* [135]; *N. lipovskyi* [164, 183]; *N. whartoni* [207, 234, 293, 301, 303]; *Walchia americana* [247]

Dipodomys agilis

Leuwenhoekiiidae: *Odontacarus linsdalei* [189]

Trombiculidae: *Dermadelema furmani* [189, 232]; *Euschoengastia ambocalis* [333]; *E. heteromyicola* [334]

Dipodomys elator

Trombiculidae: *Euschoengastia decipiens* [263]

Dipodomys elephantinus

Trombiculidae: *Euschoengastia decipiens* [261]

Dipodomys deserti

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastoides arizonae* [187]; *Hyponeocula luciae* [260]

Dipodomys heermani

Trombiculidae: *Dermadelema mojavnense* [232]; *Hyponeocula arenicola* [260]; *H. montanensis* [135]; *Neoschongastia americana* [135]

Dipodomys merriami

Leeuwenhoekiiidae: *Sasacarus whartoni* [122]

Trombiculidae: *Dermadelema lynnae* [232]; *D. furmani* [232]; *D. mojavnense* [232]; *D. sleeperi* [232]; *Euschoengastia ambocalis* [333]; *E. decipiens*

[39, 122, 334]; *E. hardyorum* [336]; *E. heteromyicola* [334]; *E. marginalis* [336]; *E. numerosa* [334]; *E. obscura* [334]; *E. radfordi* [122]; *E. simulans* [334]; *Euschoengastoides arizonae* [187-188]; *E. hoplai* [188]; *E. imperfectus* [187]; *E. loomisi* [188, 200]; *E. neotomae* [187]; *E. radfordi* [188]; *E. similis* [188]; *E. sleeperi* [188]; *Eutrombicula alfreddugesi* [188]; *E. batatas* [21]; *Hexidionis allredi* [188, 200]; *H. deserti* [195]; *H. doremi* [39, 195]; *H. harveyi* [188]; *H. jessiemae* [122, 188]; *Hyponeocula arenicola* [10, 122, 260]; *H. fovea* [260]; *H. imitator* [260]; *Leptotrombidium panamensis* [191]; *Otorhinophila baccusi* [188, 201]; *O. desertorum* [201]; *O. parvisola* [201]; *O. xerophila* [201]; *Parasecia gurneyi* [188]

Dipodomys microps

Leeuwenhoekiidae: *Odontacarus linsdalei* [39]; *Sasacarus whartoni* [122]

Trombiculidae: *Dermadelema furmani* [232]; *D. sleeperi* [232]; *Euschoengastia decipiens* [10, 122, 334]; *E. hardyorum* [336]; *E. heteromyicola* [334]; *E. radfordi* [10, 122]; *Hexidionis jessiemae* [122]; *Hyponeocula arenicola* [39, 122, 181, 260]; *H. fovea* [260]; *Kayella lacerta* [122]

Dipodomys nitratoides

Trombiculidae: *Dermadelema mojavnense* [232]

Dipodomys ordii

Leeuwenhoekiidae: *Leeuwenhoekia americana* [6]; *Odontacarus linsdalei* [6, 10, 39, 41]; *O. micheneri* [6]; *Xenodontacarus plumosus* [183]

Trombiculidae: *Euschoengastia cordiremus* [6]; *E. criceticola* [39]; *E. decipiens* [6, 10, 39]; *E. radfordi* [6, 10]; *Euschoengastoides arizonae* [187, 200]; *E. loomisi* [57, 183, 200]; *Eutrombicula alfreddugesi* [55, 183, 323]; *E. batatas* [183, 323]; *Hexidionis allredi* [200]; *H. breviseta* [200]; *H. doremi* [6]; *H. harveyi* [188, 200]; *Hyponeocula arenicola* [6, 10, 39, 181, 183, 200, 260]; *H. fovea* [260]; *H. montanensis* [183, 260]; *Otorhinophila baccusi* [200]; *O. parvisola* [201]; *Parasecia gurneyi* [55, 182-183]; *Pseudoschongastia farneri* [183]; *P. hungerfordi* [177, 183]; *Trombicula bakeri* [6, 10]; *T. belkini* [6, 10]

Dipodomys panamintinus

Trombiculidae: *Dermadelema furmani* [232]; *D. mojavnense* [232]; *D. sleeperi* [232]; *Euschoengastia decipiens* [334]; *E. heteromyicola* [334]; *E. marginalis* [336]; *E. simulans* [334]; *Hyponeocula arenicola* [260]; *H. fovea* [260]; *H. imitator* [260]; *Otorhinophila parvisola* [201]

Dipodomys spectabilis

Trombiculidae: *Euschoengastoides arizonae* [187]; *E. imperfectus* [187]; *E. neotomae* [187]; *Hexidionis harveyi* [194]; *Hyponeocula arenicola* [260]

Dipodomys stephensi

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastia heteromyicola* [334]; *E. obscura* [334]

Dipodomys venustus

Leeuwenhoekiiidae: *Odontocarus hirsutus* [41]

Trombiculidae: *Euschoengastia criceticola* [41]; *E. radfordi* [41, 334]; *E. romola* [41]; *Neotrombicula californica* [41]

Eptesicus fuscus

Leeuwenhoekiiidae: *Albeckia senase* [45]; *Whartonia perplexa* [31, 149, 245, 295]

Trombiculidae: *Euschoengastia hamiltoni* [31, 45, 109, 290, 293, 303, 340]; *E. pipistrelli* [290, 293, 303, 308]; *E. staffordi* [45]; *Eutrombicula alfreddugesi* [45]; *Leptotrombidium myotis* [14, 158, 160, 229, 267-268, 274, 290, 293, 303, 317, 340]; *Loomisia sprossi* [38]; *Neotrombicula microti* [290, 293, 303]; *Parasecia gurneyi* [69]; *Trombicula eptesici* [31]

Erethizon dorsatum

Trombiculidae: *Euschoengastia decipiens* [10, 334]; *E. radfordi* [39];
Neotrombicula harperi [174]

Geomys bursarius

Trombiculidae: *Euschoengastia diversa* [183]; *E. trigenuala* [183, 256]

Glaucomys sabrinus

Trombiculidae: *Euschoengastia oregonensis* [305]; *E. peromysci* [241, 305]; *E. sciuricola* [305]; *Leptotrombidium peromysci* [328]; *Miyatrombicula esoensis* [328]; *Neotrombicula harperi* [328]; *N. microti* [44, 305]; *N. whartoni* [241]

Glaucomys volans

Trombiculidae: *Leptotrombidium peromysci* [235]; *Miyatrombicula cynos* [141, 223, 242]; *Neotrombicula fitchi* [141, 181, 242, 293, 303]; *Trombicula* sp. [109]; *Walchia americana* [59]

Lagurus curtatus

Trombiculidae: *Hyponeocula arenicola* [260]

Lasionycteris noctivagans

Trombiculidae: *Leptotrombidium myotis* [160, 267-268, 317]; *Miyatrombicula jonesae* [302]

Lasiurus borealis

Trombiculidae: *Eutrombicula alfreddugesi* [45]; *E. batatas* [45]

Lepus americanus

Trombiculidae: *Neotrombicula bisignata* [337]; *N. harperi* [328]

Lepus aquaticus

Trombiculidae: *Trombicula irritans* [277]

Lepus californicus

Leeuwenhoekidae: *Odontacarus dentatus* [129, 191]

Trombiculidae: *Euschoengastia decipiens* [6, 10, 39, 334]; *E. eadsi* [191]; *E. latchmani* [46, 334]; *E. luteodema* [6]; *E. numerosa* [334]; *E. radfordi* [6, 10, 15, 41, 135]; *E. sciuricola* [135]; *Euschoengastia latchmani* [15]; *Eutrombicula alfreddugesi* [154, 183]; *E. batatas* [21]; *Neoschongastia americana* [58, 191]; *N. fullbergae* [135]; *Neotrombicula lipovskyi* [164, 183]; *N. whartoni* [191]; *Pseudoschongastia hungerfordi* [183]; *Trombicula irritans* [277]

Lepus townsendi

Trombiculidae: *Euschoengastia numerosa* [334]

Liomys irroratus

Leeuwenhoekiidae: *Odontacarus cayolargoensis* [85, 191]; *Xenodontacarus plumosus* [85, 191]

Trombiculidae: *Euschoengastoides loomisi* [85]; *Eutrombicula alfreddugesi* [85]; *Hexidionis allredi* [85]; *H. jessiema* [38]; *Kayella bigenuala* [85, 191]; *K. lacerta* [85]; *Leptotrombidium panamensis* [85]; *Pseudoschoengastia audyi* [85]; *P. farneri* [85, 191]

Macrotus californicus

Leeuwenhoekiidae: *Whartonia glenni* [276]

Trombiculidae: *Loomisia sprossi* [38]; *Tecomatlana sandovali* [26, 271]; *T. watkinsi* [271]

Marmota flaviventris

Leeuwenhoekiidae: *Chatia setosa* [29]

Trombiculidae: *Euschoengastia luteodema* [2, 32, 135]; *E. radfordi* [41, 135]; *E. sciuricola* [6, 10, 135]; *Neotrombicula harperi* [39]; *N. microti* [2]; *Trombicula belkini* [135, 273]; *T. subignata* [44, 135]

Marmota monax

Trombiculidae: *Euschoengastia marmotae* [109, 207, 293, 303, 310]; *E. peromysci* [293, 303]; *Eutrombicula alfreddugesi* [293, 303, 310]

Mephitis elongata

Trombiculidae: *Eutrombicula alfreddugesi* [154]

Mephitis mephitis

Trombiculidae: *Neotrombicula whartoni* [293, 299, 303]

Microtus californicus

Leeuwenhoekidae: *Leeuwenhoekia americana* [41]; *Odontacarus hirsutus* [41]

Trombiculidae: *Euschoengastia ambocalis* [333]; *E. criceticola* [41, 135]; *E. oregonensis* [135]; *E. peromysci* [135]; *E. pomerantzi* [41]; *E. radfordi* [41, 216]; *Neotrombicula californica* [41, 135]; *N. cavicola* [135]; *N. dinehartae* [41, 216]; *N. jewetti* [41, 44, 216]

Microtus chrotorrhinus

Trombiculidae: *Euschoengastia blarinae* [296]; *E. ohioensis* [297]; *E. peromysci* [109, 170, 241, 297]; *E. setosa* [296-297]; *Leptotrombidium peromysci* [241]; *Miyatrombicula esoensis* [296]; *Neotrombicula harperi* [208, 265, 296-297]; *N. microti* [265, 297]

Microtus longicaudus

Leeuwenhoekidae: *Shunsennia ochotona* [135]

Trombiculidae: *Euschoengastia brennani* [334]; *E. oregonensis* [10]; *E. peromysci* [153]; *E. radfordi* [153]; *Leptotrombidium panamensis* [39]; *Neotrombicula californica* [39]; *N. harperi* [10, 39, 44, 164]; *N. jewetti* [44, 153]; *N. microti* [39, 164]; *Trombicula browni* [44, 164]

Microtus mexicanus

Trombiculidae: *Neotrombicula microti* [44]

Microtus modestus

Trombiculidae: *Neotrombicula harperi* [44]; *N. microti* [94]

Microtus montanus

Leeuwenhoekidae: *Leeuwenhoekia americana* [86]

Trombiculidae: *Euschoengastia oregonensis* [153]; *Neotrombicula californica* [135]; *N. cavicola* [86]; *N. harperi* [10, 86, 164]; *N. jewetti* [153]; *N. microti* [164, 168]

Microtus ochrogaster

Trombiculidae: *Euschoengastia diversa* [109, 183]; *E. peromysci* [18, 49, 150, 183]; *E. setosa* [172, 267, 293, 303]; *E. trigenucula* [55, 183]; *Eutrombicula alfreddugesi* [183, 267, 293, 303, 323]; *E. lipovskyana* [183, 323]; *Neotrombicula cavicola* [49]; *N. lipovskyi* [55, 164, 183]; *N. sylvilagi* [164, 183]; *N. whartoni* [18, 164, 183, 293, 303]; *Pseudoschongastia hungerfordi* [183]; *Trombicula autumnalis* [164]

Microtus oregoni

Trombiculidae: *Euschoengastia oregonensis* [86]; *Neotrombicula cavicola* [86]; *N. harperi* [86]

Microtus pennsylvanicus

Trombiculidae: *Euschoengastia criceticola* [88]; *E. diversa* [109]; *E. michiganensis* [328]; *E. peromysci* [109, 205, 207, 293, 303]; *E. setosa* [88, 267]; *Eutrombicula alfreddugesi* [105, 154, 293, 303]; *E. masoni* [104, 154]; *E. tropica* [205]; *Leptotrombidium peromysci* [328]; *Miyatrombicula esoensis* [296, 328]; *Neotrombicula bisignata* [44, 96, 337]; *N. harperi* [44, 174, 296, 328]; *N. lipovskyi* [293, 303]; *N. microti* [44, 174, 328, 337]; *N. richmondi* [44]; *N. subsignata* [44, 119, 164]; *N. whartoni* [44, 77, 109, 164, 205, 207, 293, 303]; *Trombicula autumnalis* [164]; *T. goodpasteri* [44]

Microtus pinetorum

Trombiculidae: *Euschoengastia carolinensis* [109]; *E. diversa* [183, 227]; *E. ohioensis* [109, 227, 293, 303-304]; *E. peromysci* [59, 109, 207, 227, 242, 293, 303]; *Eutrombicula alfreddugesi* [227, 323]; *Leptotrombidium myotis* [207]; *Neotrombicula lipovskyi* [164, 183, 227, 293, 303]; *N. whartoni* [205, 207, 227]; *Trombicula goodpasteri* [44]

Microtus richardsoni

Trombiculidae: *Neotrombicula microti* [44, 94]

Mormoops megalophylla

Leeuwenhoekidae: *Wagenaaria similis* [200, 295]

Trombiculidae: *Beamerella acutascuta* [38]; *Eutrombicula alfreddugesi* [200]; *Perates monops* [200]; *Tecomatlana texana* [149, 191, 271]; *Trombicula discors* [200]; *T. tibbettsi* [45, 191]; *T. usitata* [38]

Mus musculus

Leeuwenhoekidae: *Leeuwenhoekia dolosa* [135]; *Odontacarus hirsutus* [10]

Trombiculidae: *Cheladonta micheneri* [178]; *Euschoengastia criceticola* [41, 135]; *E. diversa* [183]; *E. peromysci* [41, 135]; *E. pomerantzi* [41]; *E. radfordi* [41]; *Eutrombicula alfreddugesi* [203, 323]; *E. lipovskyana* [323]; *Hyponeocula arenicola* [181, 260]; *H. montanensis* [48]; *Neotrombicula californica* [135]; *N. jewetti* [41, 135]; *N. lipovskyi* [164, 183]; *N. sylvilagi* [164, 183]; *N. whartoni* [164, 183]; *Pseudoschongastia hungerfordi* [183]; *Trombicula belkini* [135, 273, 323]; *T. loomisi* [164]

Mustela frenata

Trombiculidae: *Aplodontophila aplodontiae* [30, 335]; *Euschoengastia peromysci* [293, 299, 303]; *Eutrombicula alfreddugesi* [293, 299, 303]; *Hexidionis jessi* [38]

Mustela nivalis

Trombiculidae: *Euschoengastia peromysci* [293, 299, 303]

Mustela vison

Trombiculidae: *Neotrombicula whartoni* [293, 299, 303]

Myodes californicus

Leeuwenhoekidae: *Shunsennia ochotona* [135]

Trombiculidae: *Euschoengastia peromysci* [135]; *E. radfordi* [41]; *Neotrombicula jewetti* [44]

Myodes gapperi

Trombiculidae: *Euschoengastia blarinae* [296]; *E. crateris* [109]; *E. diversa* [109]; *E. magna* [109]; *E. ohioensis* [109]; *E. peromysci* [109, 207, 241, 302, 304]; *E. setosa* [88, 109, 304]; *Miyatrombicula cynos* [139](nr.); *M. esoensis* [296, 304]; *Neotrombicula brennani* [135]; *N. californica* [39]; *N. harperi* [10, 39, 44, 86, 164, 174, 208, 296, 328]; *N. microti* [44, 48, 164, 296, 337]; *N. richmondi* [44, 164]; *Trombicula belkini* [10]

Myodes occidentalis

Leeuwenhoekidae: *Leeuwehoekia americana* [86]; *Shunsennia ochotona* [153]

Trombiculidae: *Euschoengastia oregonensis* [86]; *E. peromysci* [153]; *E. radfordi* [153]; *Neotrombicula brennani* [153]; *N. cavicola* [86]; *N. harperi* [86]; *N. jewetti* [153]; *N. microti* [153]

Myotis austroriparius

Trombiculidae: *Euschoengastia pipistrelli* [242, 290, 293, 303, 308]

Myotis californicus

Leeuwenhoekiiidae: *Whartonia perplexa* [39]

Trombiculidae: *Leptotrombidium myotis* [39, 274]

Myotis ciliolabrum

Leeuwenhoekiiidae: *Albeckia albecki* [88]

Trombiculidae: *Leptotrombidium myotis* [88, 160, 267-268, 317]

Myotis evotis

Trombiculidae: *Leptotrombidium myotis* [14]

Myotis grisescens

Trombiculidae: *Euschoengastia pipistrelli* [45]; *Leptotrombidium myotis* [250];

Trombicula tibbettsi [45]

Myotis leibii

Trombiculidae: *Leptotrombidium myotis* [121, 158, 224]

Myotis lucifugus

Trombiculidae: *Euschoengastia hamiltoni* [109, 340]; *E. miricoxa* [32]; *E.*

pipistrelli [88, 109, 161, 183, 290, 293, 303, 308, 315, 340];

Leptotrombidium myotis [14, 96, 104, 158-159, 231, 267-268, 274, 285,

317, 328, 340]

Myotis occultus

Trombiculidae: *Leptotrombidium myotis* [270]

Myotis septentrionalis

Trombiculidae: *Euschoengastia pipistrelli* [45, 109, 121, 161, 183, 241, 250, 290, 293, 303, 315]; *Eutrombicula alfreddugesi* [45]; *Leptotrombidium myotis* [158-159, 231, 267]

Myotis sodalis

Trombiculidae: *Euschoengastia pipistrelli* [109]

Myotis subulatus

Trombiculidae: *Euschoengastia hamiltoni* [109]; *E. subulatus* [31];
Leptotrombidium myotis [26]

Myotis thysanodes

Trombiculidae: *Leptotrombidium myotis* [26, 267-268]

Myotis velifer

Leeuwenhoekiiidae: *Albeckia senase* [55, 137, 183, 244]; *Whartonia perplexa* [245]

Trombiculidae: *Chiroptella mexicana* [26]; *Euschoengastia jonesi* [179, 183];
Leptotrombidium myotis [26]; *Miyatrombicula cynos* [183];
Neotrombicula fitchi [55, 181, 183]

Myotis volans

Trombiculidae: *Leptotrombidium myotis* [14, 159, 267-268, 317]

Myotis yumanensis

Trombiculidae: *Leptotrombidium myotis* [274]; *Trombicula* sp. [245]

Napaeozapus insignis

Trombiculidae: *Euschoengastia diversa* [109]; *E. peromysci* [242, 302]; *E. rubra* [302]; *E. setosa* [109, 328]; *Miyatrombicula esoensis* [157, 296, 328];

Neotrombicula harperi [44, 94, 157, 296, 328]; *N. microti* [157, 337]; *N. richmondi* [44]

Neofiber alleni

Trombiculidae: *Eutrombicula masoni* [104, 154]; *E. splendens* [254]

Neotoma albigula

Leeuwenhoekiiidae: *Odontacarus morlani* [188]; *Sasacarus whartoni* [188]

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastia criceticola* [111, 188]; *E. numerosa* [334]; *Euschoengastoides arizonae* [187]; *E. hoplai* [188]; *E. loomisi* [188]; *E. neotomae* [187]; *E. similis* [188]; *E. tanigoshii* [187]; *Eutrombicula alfreddugesi* [111, 323]; *E. batatas* [21]; *Fonsecia kansasensis* [188]; *Hexidionis allredi* [188]; *H. montanensis* [188]; *Hyponeocula arenicola* [111, 181, 260]; *Kayella lacerta* [111, 188]; *Leptotrombidium panamensis* [111, 188]; *Otorhinophila desertorum* [201]; *O. parvisola* [201, 332]; *Pseudoschongastia farneri* [188]; *P. hungerfordi* [188]; *Walchioides whartoni* [188]

Neotoma cinerea

Leeuwenhoekiiidae: *Chatia setosa* [29, 60]; *Comatacarus pusillus* [127];

Leeuwenhoekia americana [111]; *Odontacarus hirsutus* [10, 153]; *O. micheneri* [39, 111, 137]; *Shunsennia ochotona* [6, 39]

Trombiculidae: *Euschoengastia criceticola* [111]; *E. decipiens* [6]; *E. finleyi* [54, 111]; *E. guntheri* [111]; *E. numerosa* [334]; *E. oregonensis* [60]; *E. peromysci* [60]; *E. pomerantzi* [60]; *E. radfordi* [41]; *E. setosa* [267]; *E. velata* [47]; *Eutrombicula alfreddugesi* [111]; *Kayella lacerta* [111];

Leptotrombidium panamensis [111]; *Miyatrombicula cynos* [60];
Neotrombicula cavicola [60, 86]; *N. harperi* [44, 86, 111, 164]; *N. microti*
[44, 60, 111, 164]; *Trombicula autumnalis* [111, 164]; *T. finleyi* [111, 164]

Neotoma floridana

Trombiculidae: *Cheladonta micheneri* [178, 183]; *C. ouachitensis* [80, 293, 303];
Euschoengastia criceticola [111]; *E. diversa* [55, 183, 238]; *E. peromysci*
[55, 61, 78, 80, 183, 238, 242, 293, 303]; *E. setosa* [55, 61, 183, 238, 293,
303]; *Eutrombicula alfreddugesi*[61, 78, 154, 183, 203, 238, 242, 323]; *E.*
batatas [78]; *E. cinnabaris* [80]; *E. lipovskyana* [183, 238, 323]; *E.*
masoni [154]; *E. splendens* [78, 242]; *Leptotrombidium peromysci* [80];
Microtrombicula trisetica [183, 238, 280]; *Miyatrombicula cynos* [183,
238]; *M. jonesae* [78]; *Neotrombicula cavicola* [61]; *N. lipovskyi* [44, 55,
164, 183, 238, 293, 303, 309]; *N. sylvilagi* [164, 183, 238]; *N. waynensis*
[61, 242]; *N. whartoni* [80, 164]; *Parasecia gurneyi* [182];
Pseudoschongastia farneri [183, 238]; *P. hungerfordi* [55, 177, 183, 238]

Neotoma fuscipes

Leeuwenhoekiiidae: *Chatia setosa* [60]; *Leeuwenhoekia americana* [60];

Odontacarus hirsutus [41]

Trombiculidae: *Euschoengastia ambocalis* [189, 333]; *E. brennani* [334]; *E.*
criceticola [189]; *E. heteromyicola* [334]; *E. marginalis* [336]; *E. obscura*
[334]; *E. peromysci* [41, 60, 135]; *E. pomerantzi* [41, 60]; *E. radfordi* [41,
189]; *E. simulans* [60, 334]; *Kayella lacerta* [41]; *Miyatrombicula scottae*

[41]; *Neotrombicula californica* [41, 135, 189]; *N. cavicola* [60, 86, 135];
N. jewetti [41]

Neotoma lepida

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [13]; *Comatacarus stewarti* [135];

Leeuwenhoekia americana [13]; *Odontacarus chiapanensis* [13]; *O.*
desertorum [201]; *O. hirsutus* [10]; *O. kromani* [126]; *O. linsdalei* [13,
39]; *O. micheneri* [7, 10, 39]; *Sasacarus whartoni* [13]

Trombiculidae: *Dermadelema furmani* [38, 135, 232]; *D. mojavnense* [232];
Euschoengastia ambocalis [189, 333]; *E. criceticola* [10, 13, 39, 111,
189]; *E. decipiens* [10, 39]; *E. fasolla* [13, 39]; *E. finleyi* [54, 111]; *E.*
frondifera [189]; *E. lanceolata* [39]; *E. marginalis* [336]; *E. obesa* [13]; *E.*
obscura [334]; *E. radfordi* [10, 13, 39, 189]; *E. simulans* [334]; *E.*
utahensis [13, 39]; *Euschoengastoides arizonae* [187]; *E. hoplai* [181]; *E.*
neotomae [187]; *Eutrombicula batatas* [21]; *Hexidionis allredi* [13, 39,
202]; *H. jessiemaie* [13]; *Hyponeocula arenicola* [39]; *H. montanensis*
[260]; *Kayella lacerta* [39]; *Leptotrombidium panamensis* [10, 13, 39,
111]; *Microtrombicula nasalis* [185]; *Neotrombicula californica* [189]; *N.*
microti [39]; *Otorhinophila parvisola* [201, 332]; *O. sola* [13, 135, 201,
332]; *O. xerophila* [201]; *Pseudoschongastia aeci* [38]; *Trombicula*
belkini [13, 282]; *T. veanda* [38];

Neotoma magister

Trombiculidae: *Euschoengastia diversa* [109]; *E. magna* [109]; *E. peromysci*
[109]

Neotoma mexicana

Leeuwenhoekiiidae: *Leeuwenhoekia americana* [111]

Trombiculidae: *Euschoengastia criceticola* [111, 188]; *E. decipiens* [334]; *E. finleyi* [54, 111]; *E. hoffmannae* [111]; *Euschoengastoides hoplai* [111, 181]; *E. neotomae* [187]; *Eutrombicula alfreddugesi* [111]; *Kayella lacerta* [111, 188]; *Leptotrombidium panamensis* [111]; *Neotrombicula harperi* [111, 164]

Neotoma micropus

Leeuwenhoekiiidae: *Albeckia senase* [137, 183]; *Odontacarus morlani* [37];
Sasacarus whartoni [191]; *Xenodontacarus plumosus* [55, 183, 192]

Trombiculidae: *Euschoengastia criceticola* [55, 111, 183, 188]; *E. jonesi* [179, 183]; *E. setosa* [55, 183]; *Euschoengastoides hoplai* [55, 181, 183, 187];
E. loomisi [55, 57, 183, 188, 200]; *E. neotomae* [187]; *E. similis* [188];
Eutrombicula alfreddugesi [55, 154, 183, 188, 200, 323]; *Fonsecia kansasensis* [55, 182-183]; *Hexidionis allredi* [188, 200]; *Hyponeocula montanensis* [55, 183, 260]; *Kayella lacerta* [183]; *Leptotrombidium myotis* [183]; *L. panamensis* [188, 200]; *Neotrombicula fitchi* [181, 183];
N. lipovskyi [55, 164, 183]; *Parasecia gurneyi* [182-183];
Pseudoschongastia farneri [55, 177, 183]; *P. hungerfordi* [55, 177, 183];
Trombicula ornata [55, 183, 193]; *Walchia americana* [183]; *Walchioides whartoni* [188]

Neotoma stephensi

Trombiculidae: *Otorhinophila parvisola* [201]

Neurotrichus gibbsii

Trombiculidae: *Euschoengastia oregonensis* [153]; *E. radfordi* [41, 153];

Neotrombicula brennani [135]

Notiosorex crawfordi

Trombiculidae: *Hexidionis jessiamae* [38]

Nycticeius humeralis

Trombiculidae: *Parasecia gurneyi* [45]

Ochotona princeps

Leeuwenhoekidae: *Chatia setosa* [10, 29]; *Shunsennia ochotona* [236-237]

Trombiculidae: *Euchoengastia brennani* [334]; *E. criceticola* [10]; *E. guntheri* [236-237]; *E. lanei* [10]; *E. numerosa* [334]; *E. oregonensis* [10, 39]; *E. radfordi* [41, 135]; *E. rotunda* [39]; *E. samboni* [109, 236-237]; *E. sciuricola* [10]; *E. soricinus* [10]; *Neotrombicula harperi* [10, 39, 44, 135, 164]; *N. microti* [39, 44, 164, 168]; *Trombicula hoffmannae* [10]; *T. parkeri* [236-237]

Ochotona schisticeps

Leeuwenhoekidae: *Shunsennia ochotona* [135]

Trombiculidae: *Neotrombicula microti* [44]

Ochrotomys nuttallii

Trombiculidae: *Euschoengastia peromysci* [80]

Odocoileus hemionus

Trombiculidae: *Euschoengastia latchmani* [334]; *E. numerosa* [87, 334]; *E. radfordi* [10, 41, 135]; *Eutrombicula alfreddugesi* [67]; *Neoschongastia fullbergae* [32, 135]

Odocoileus virginianus

Leeuwenhoekiiidae: *Odontacarus dentatus* [37, 91, 129]

Trombiculidae: *Eutrombicula batatas* [320]; *E. masoni* [104, 154]; *E. splendens* [64-65, 117]; *Neotrombicula richmondi* [180]; *N. whartoni* [166]

Ondatra zibethicus

Trombiculidae: *Euschoengastia peromysci* [19, 109, 293, 303]; *Eutrombicula batatas* [21]; *Leptotrombidium myotis* [174]; *Neotrombicula bisignata* [44]; *N. harperi* [169, 174]; *N. microti* [328, 337]; *N. richmondi* [44]; *N. waynensis* [174]; *N. whartoni* [109]

Onychomys leucogaster

Trombiculidae: *Euschoengastia trigenuala* [183]; *Euschoengastoides neotomae* [187]; *Eutrombicula alfreddugesi* [183, 323]; *Hexidionis doremi* [6]; *Hyponeocula montanensis* [183]; *Neotrombicula harperi* [10]; *Parasecia gurneyi* [182-183]; *Pseudoschongastia hungerfordi* [183]

Onychomys torridus

Leeuwenhoekiiidae: *Odontacarus linsdalei* [3]; *O. micheneri* [10]

Trombiculidae: *Dermadelema furmani* [232]; *D. mojavense* [232]; *Euschoengastia ambocalis* [333]; *E. criceticola* [3, 135]; *Euschoengastoides arizonae* [187]; *Hyponeocula arenicola* [3, 260]; *Otorhinophila parvisola* [201]

Oryzomys palustris

Trombiculidae: *Euschoengastia peromysci* [320]; *E. setosa* [320]; *Eutrombicula alfreddugesi* [154]; *E. batatas* [326-327]; *E. masoni* [107, 154]; *E. multisetosa* [327]; *E. splendens* [220, 326-327]

Pappogeomys castanops

Trombiculidae: *Euschoengastoides arizonae* [188]; *Hyponeocula arenicola* [188]; *Kayella lacerta* [188]; *Otorhinophila baccusi* [188, 201]

Parascalops breweri

Trombiculidae: *Neotrombicula microti* [298]

Parastrellus hesperus

Leeuwenhoekidae: *Albeckia senase* [245, 317]; *Whartonia carpenteri* [70]; *W. perplexa* [26, 135, 143, 200]

Trombiculidae: *Euschoengastoides neotomae* [200]; *Leptotrombidium myotis* [26, 317]; *L. panamensis* [143](nr.); *Loomisia sprocssi* [38, 143]; *L. univari* [143, 317]; *Trombicula univari* [10, 38]

Perimyotis subflavus

Trombiculidae: *Euschoengastia pipistrelli* [31, 45, 55, 109, 161, 183, 241, 250, 290, 293, 303, 308, 340]; *E. staffordi* [45]; *Perissopalla flagellisetula* [45]

Perognathus amplus

Trombiculidae: *Euschoengastoides arizonae* [187]

Perognathus apache

Trombiculidae: *Euschoengastoides hoplai* [39]; *E. neotomae* [187]

Perognathus baileyi

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastoides arizonae* [187];
E. imperfectus [187]; *Eutrombicula batatas* [21]; *Otorhinophila parvisola*
[201, 332]

Perognathus californicus

Leeuwenhoekiiidae: *Acomatacarus brevicalcar* [41]; *Comatacarus stewarti* [135];
Odontacarus hirsutus [41, 99]; *O. linsdalei* [41]; *Xenodontacarus*
brevicalcar [192]

Trombiculidae: *Dermadelema furmani* [41, 135, 232]; *Euschoengastia ambocalis*
[333]; *E. criceticola* [41]; *E. enemi* [41]; *E. heteromyicola* [334]; *E. nihi*
[41]; *E. pomerantzi* [41]; *E. radfordi* [41, 334]; *E. ramola* [41];
Euschoengastoides imperfectus [41]; *E. neotomae* [187]; *Kayella lacerta*
[41, 135]; *Miyatrombicula scottae* [41]; *Neotrombicula californica* [41];
N. dinehartae [41, 135]; *N. jewetti* [41]; *Trombicula belkini* [41, 134-135,
273, 282, 323]

Perognathus fallax

Trombiculidae: *Dermadelema furmani* [232]; *D. mojavense* [232];
Euschoengastia ambocalis [333]; *E. marginalis* [336]; *E. obscurus* [334];
E. simulans [334]; *Euschoengastoides neotomae* [187]; *Hexidionis deserti*
[195]; *Hyponeocula fovea* [260]; *Otorhinophila desertorum* [201]; *O.*
xerophila [201]

Perognathus fasciatus

Trombiculidae: *Hyponeocula arenicola* [260]

Perognathus flavescens

Trombiculidae: *Eutrombicula alfreddugesi* [183]; *Hyponeocula montanensis*
[183]

Perognathus flavus

Trombiculidae: *Euschoengastia decipiens* [263]; *Euschoengastoides arizonae*
[187]; *E. imperfectus* [41, 187]; *E. loomisi* [57, 183]; *Hyponeocula*
arenicola [181, 260]; *H. montanensis* [183]; *Pseudoschongastia*
hungerfordi [183]

Perognathus formosus

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [197]; *Odontacarus linsdalei* [4,
39, 41]

Trombiculidae: *Dermadelema furmani* [232]; *D. mojavnense* [232]; *D. sleeperi*
[232]; *Euschoengastia criceticola* [4]; *E. decipiens* [4, 39]; *E. hardyorum*
[336]; *E. heteromyicola* [334]; *E. obesa* [39]; *E. obscura* [334]; *E.*
radfordi [10]; *E. utahensis* [10]; *Euschoengastoides arizonae* [187]; *E.*
imperfectus [187]; *E. neotomae* [187]; *Eutrombicula batatas* [21];
Hexidionis jessiamae [4]; *H. deserti* [195]; *Hyponeocula arenicola* [4, 39,
260]; *H. fovea* [260]; *H. imitator* [260]; *H. luciae* [260]; *Otorhinophila*
desertorum [201], *O. parvisola* [332]

Perognathus hispidus

Trombiculidae: *Cheladonta micheneri* [178, 183]; *Euschoengastia cynomyicola*
[57, 183]; *E. trigenuala* [183-184]; *Euschoengastoides hoplai* [187]; *E.*
loomisi [57, 191]; *Eutrombicula alfreddugesi* [55, 183, 323]; *E. batatas*
[183]; *Hyponeocula arenicola* [181, 183, 260]; *H. montanensis* [55, 183,

260]; *Parasecia gurneyi* [182-183]; *Pseudoschongastia farneri* [55, 183];
P. hungerfordi [183, 191]

Perognathus intermedius

Trombiculidae: *Euschoengastoides arizonae* [187]; *Otorhinophila parvisola* [201]

Perognathus longimembris

Leeuwenhoekidae: *Odontacarus linsdalei* [4]

Trombiculidae: *Dermadelema lynnae* [232]; *D. furmani* [232]; *D. mojavnense*
[232]; *D. sleeperi* [232]; *Euschoengastia decipiens* [4, 39]; *E.*
heteromyicola [334]; *E. obscura* [334]; *Euschoengastoides imperfectus*
[187]; *Hexidionis deserti* [195]; *H. doremi* [39]; *Hyponeocula arenicola*
[4, 10, 39, 260]; *H. fovea* [260]; *H. imitator* [260]; *Otorhinophila*
desertorum [201]; *O. xerophila* [201]; *Trombicula belkini* [4]

Perognathus merriami

Trombiculidae: *Euschoengastoides arizonae* [188]; *E. hoplai* [187-188, 191]; *E.*
loomisi [200]; *E. similis* [188]; *Hexidionis allredi* [188, 200]; *H. breviseta*
[200]; *H. harveyi* [188, 200]; *Hyponeocula arenicola* [200]; *Hyponeocula*
n. sp. [188]; *Kayella lacerta* [188]; *Leptotrombidium panamensis* [188];
Otorhinophila baccusi [188]; *Parasecia gurneyi* [188]; *Pseudoschongastia*
farneri [188]

Perognathus nelsoni

Trombiculidae: *Euschoengastoides arizonae* [188]; *E. hoplai* [188]; *E. loomisi*
[188]; *E. neotomae* [188]; *E. similis* [188]; *Hexidionis allredi* [188];
Hyponeocula n. sp. [188]; *Kayella lacerta* [188]; *Leptotrombidium*

panamensis [188]; *Otorhinophila baccusi* [188, 201]; *Pseudoschongastia hungerfordi* [188]

Perognathus parvus

Leeuwenhoekiiidae: *Odontacarus linsdalei* [4, 39, 41]; *O. micheneri* [39]

Trombiculidae: *Euschoengastia cordiremus* [10]; *E. criceticola* [4]; *E. decipiens* [6, 10, 39, 135, 334]; *E. fassola* [4]; *E. oregonensis* [10]; *E. radfordi* [6, 41]; *Euschoengastoides hoplai* [10]; *Hexidionis doremi* [6, 195]; *Hypoenucula arenicola* [5, 39, 181, 260]; *Leptotrombidium panamensis* [39]; *Neotrombicula harperi* [10]; *Trombicula loomisi* [4]

Perognathus penicillatus

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastoides arizonae* [187-188]; *E. hoplai* [188]; *E. imperfectus* [187-188]; *E. loomisi* [200]; *E. neotomae* [187-188]; *E. similis* [188]; *E. tanigoshii* [187]; *E. webbi* [187]; *Eutrombicula batatas* [21]; *Hexidionis allredi* [188, 200]; *H. harveyi* [188]; *Hyponeocula arenicola* [188, 200]; *H. imitator* [260]; *H. luciae* [260]; *Kayella lacerta* [191]; *Leptotrombidium panamensis* [200]; *Otorhinophila baccusi* [188, 201]; *O. desertorum* [201]; *O. parvisola* [201, 332]; *O. xerophila* [201]

Perognathus spinatus

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastoides arizonae* [187]; *E. imperfectus* [187]; *Hyponeocula luciae* [260]

Peromyscus boylii

Leeuwenhoekiidae: *Odontacarus hirsutus* [153]; *O. villosus* [126]; *Shunsennia ochotona* [135, 153]

Trombiculidae: *Euschoengastia ambocalis* [333]; *E. brennani* [334]; *E. chisosensis* [188]; *E. criceticola* [1, 39, 41, 153, 188]; *E. peromysci* [41, 153]; *E. pomerantzi* [41]; *E. radfordi* [41, 153, 334]; *Euschoengastoides arizonae* [187-188]; *E. neotomae* [187]; *E. tumidus* [187]; *Kayella lacerta* [41, 135, 153, 188]; *Microtrombicula aequalis* [280]; *Neotrombicula dinehartae* [41]; *N. jewetti* [41, 44, 153]; *Pseudoschongastia farneri* [188]; *P. occidentalis* [35, 153]; *Walchioides whartoni* [188]

Peromyscus californicus

Leeuwenhoekiidae: *Comatacarus stewarti* [135]

Trombiculidae: *Euschoengastia ambocalis* [189, 333]; *E. criceticola* [41, 189]; *E. frondifera* [189]; *E. otophila* [189]; *E. peromysci* [41, 135]; *E. pomerantzi* [41, 135]; *E. radfordi* [41, 135, 334]; *E. simulans* [334]; *Miyatrombicula scottae* [41, 189]; *Neotrombicula californica* [41, 189]; *N. dinehartae* [189]; *N. jewetti* [41]; *Pseudoschongastia occidentalis* [35, 41]

Peromyscus crinitus

Leeuwenhoekiidae: *Xenodontacarus brevicar* [192]

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastia ambocalis* [333]; *E. decipiens* [10]; *E. simulans* [334]; *Euschoengastoides neotomae* [187]; *E. webbi* [187]; *Microtrombicula nasalis* [185]; *M. wrenni* [185]; *Otorhinophila desertorum* [201]

Peromyscus difficilis

Trombiculidae: *Euschoengastia criceticola* [188]; *Eutrombicula alfreddugesi* [188]; *Kayella lacerta* [188]; *Pseudoschongastia farneri* [188]

Peromyscus eremicus

Leeuwenhoekiiidae: *Sasacarus whartoni* [135, 188]

Trombiculidae: *Dermadelema furmani* [188, 232]; *D. mojavense* [232];

Euschoengastia ambocalis [333]; *E. criceticola* [1, 39, 135]; *E. decipiens* [10]; *E. lanceolata* [39]; *E. marginalis* [336]; *E. obscura* [334]; *E. radfordi* [10]; *E. simulans* [334]; *Euschoengastoides imperfectus* [187]; *E. loomisi* [188, 200]; *E. neotomae* [187-188]; *E. similis* [188]; *E. sleeperi* [188]; *E. webbi* [187]; *Eutrombicula alfreddugesi* [188]; *Hexidionis allredi* [188]; *H. breviseta* [188, 191]; *Hyponeocula fovea* [260]; *Kayella bigenuala* [188]; *K. lacerta* [188]; *Leptotrombidium panamensis* [188]; *Microtrombicula nasalis* [185]; *M. wrenni* [185]; *Otorhinophila baccusi* [188, 201]; *O. desertorum* [201]; *Pseudoschongastia farneri* [188]; *P. hungerfordi* [188]; *Walchioides whartoni* [188]

Peromyscus floridanus

Trombiculidae: *Euschoengastia peromysci* [68, 176]; *Microtrombicula crossleyi* [176, 280]; *Walchia americana* [176]

Peromyscus gossypinus

Trombiculidae: *Euschoengastia peromysci* [80, 320]; *E. setosa* [101, 109]; *Eutrombicula cinnabaris* [80]; *Leptotrombidium peromysci* [80, 320]; *Microtrombicula crossleyi* [280]; *Walchia americana* [103]

Peromyscus leucopus

Leeuwenhoekiidae: *Acomatacarus polychaetus* [137]; *Leeuwenhoekia americana* [82]; *Odontacarus cayolargoensis* [191]; *O. morlani* [37];
Xenodontacarus plumosus [55, 191-192]

Trombiculidae: *Cheladonta micheneri* [55, 178, 183]; *Digenualaea carterae* [109]; *Euschoengastia blarinae* [99, 109]; *E. carolinensis* [109]; *E. crateris* [109]; *E. criceticola* [183, 188]; *E. diversa* [183]; *E. jonesi* [55, 179, 183]; *E. peromysci* [18, 49, 55, 74, 82, 96, 99, 109, 148, 150, 162, 183, 205, 207, 241-242, 266, 293, 302-304, 319]; *E. rubra* [109]; *E. setosa* [55, 74, 88, 109, 148, 183, 207, 293, 303, 328]; *Euschoengastoides hoplai* [181, 183]; *E. loomisi* [57, 183]; *E. neotomae* [187]; *Eutrombicula alfreddugesi* [109, 183, 203, 323]; *Fonsecia kansasensis* [182-183]; *Hexidionis jessiemaie* [38]; *Leptotrombidium myotis* [48, 55, 148, 207]; *L. peromysci* [82, 328]; *Microtrombicula crossleyi* [55, 181, 183, 191, 280]; *Miyatrombicula cynos* [148]; *M. esoensis* [328]; *M. jonesae* [74, 293, 303]; *Neotrombicula cavicola* [49]; *N. harperi* [44, 328]; *N. lipovskyi* [164, 183]; *N. microti* [337]; *N. richmondi* [164]; *N. sylvilagi* [164, 183]; *N. whartoni* [164, 205]; *Parasecia gurneyi* [182-183, 191, 328]; *Pseudoschongastia audyi* [191]; *P. farneri* [183, 191]; *P. hungerfordi* [183]; *Trombicula akamshi* (nr.) [109]; *T. farrelli* [109]; *T. ornata* [183, 193]; *T. sargenti* [148]; *Walchia americana* [74, 183]

Peromyscus maniculatus

Leeuwenhoekiidae: *Chatia setosa* [29, 39, 135, 153]; *Comatacarus inconspicuus* [240]; *C. pusillus* [127]; *Odontacarus dentatus* [129, 137]; *Leeuwenhoekia*

americana [55, 73, 86, 135, 183]; *L. dolosa* [135, 153]; *Odontacarus dentatus* [183]; *O. hirsutus* [153]; *O. linsdalei* [12]; *O. villosus* [126]; *Shunsennia ochotona* [1, 39, 135, 153]; *Xenodontacarus plumosus* [136, 183, 192, 267]

Trombiculidae: *Cheladontia crossi* [178]; *C. micheneri* [55, 178, 183];

Dermadelema furmani [232]; *Digenualaea carterae* [302];

Euschoengastia ambocalis [20, 135, 189, 333]; *E. blarinae* [174]; *E.*

brennani [334]; *E. cordiremus*[6, 12, 32, 39, 109, 135]; *E. crateris* [109];

E. criceticola [1, 6, 10, 12, 32, 39, 41, 48, 55, 73, 88, 135, 153, 183, 188];

E. decipiens [6, 10, 39, 334]; *E. diversa* [183]; *E. frondifera* [135]; *E.*

heteromyicola [334]; *E. jamesoni* [302]; *E. jonesi* [55, 179, 183]; *E. lanei*

[6, 12, 39, 73]; *E. luteodema* [39]; *E. obesa* [10, 39]; *E. oregonensis* [10,

39, 86]; *E. peromysci* [41, 73, 109, 135, 153, 183, 241, 293, 302-303]; *E.*

pomerantzi [10, 41, 135]; *E. radfordi* [6, 41, 135, 153, 334]; *E. sciuricola*

[1, 10, 135, 153]; *E. setosa* [55, 88, 174, 183, 241, 267, 296, 302]; *E.*

simulans [334]; *E. trigenuala* [183]; *Euschoengastoides arizonae* [187]; *E.*

imperfectus [41]; *E. loomisi* [57, 183]; *E. neotomae* [187]; *Eutrombicula*

alfreddugesi [183, 323]; *E. lipovskyana* [183]; *Fonsecia kansasensis* [41,

182-183]; *Hexidionis harveyi* [188]; *Hyponeocula arenicola* [6, 39, 260],

H. montanensis [1, 183]; *Kayella lacerta* [135]; *Leptotrombidium myotis*

[1, 10, 174]; *L. panamensis* [10]; *L. peromysci* [88, 274];

Microtrombicula crossleyi [181]; *Miyatrombicula esoensis* [1, 296]; *M.*

scottae [41]; *Neotrombicula californica* [1, 39, 44]; *N. cavicola* [135]; *N.*

dinehartae [41, 44]; *N. harperi* [1, 10, 44, 88, 164, 174, 321]; *N. jewetti* [1, 41, 44, 135, 153]; *N. lipovskyi* [164, 183]; *N. microti* [1, 44, 48, 153, 321]; *N. sylvilagi* [164, 183]; *N. whartoni* [164]; *Parasecia gurneyi* [55, 182-183]; *Pseudoschongastia farneri* [55, 177, 183, 267]; *P. hungerfordi* [177, 183]; *P. occidentalis* [189]; *Trombicula bakeri* [10]; *T. bisgnata* [96]; *T. browni* [44, 164]; *T. loomisi* [73, 164]; *T. ornata* [183, 193]

Peromyscus nuttalli

Trombiculidae: *Euschoengastia peromysci* [109]; *E. rubra* [109]

Peromyscus pectoralis

Leeuwenhoekidae: *Comatacarus stewarti* [188]; *Sasacarus whartoni* [188]

Trombiculidae: *Euschoengastia chisosensis* [188]; *E. criceticola* [188];

Euschoengastoides loomisi [188]; *E. neotomae* [188]; *E. similis* [188];

Kayella lacerta [188]; *Leptotrombidium panamensis* [188];

Microtrombicula welbourni [198]; *Pseudoschongastia farneri* [188];

Walchioides whartoni [188]

Peromyscus polionotus

Trombiculidae: *Euschoengastia peromysci* [225]; *Leptotrombidium peromysci*

[225]; *Microtrombicula crossleyi* [280]

Peromyscus truei

Trombiculidae: *Dermadelema furmani* [232]; *Euschoengastia ambocalis* [333]; *E.*

brennani [334]; *E. criceticola* [41]; *E. decipiens* [10, 73, 334]; *E.*

heteromyicola [334]; *E. lanei* [73]; *E. marginalis* [336]; *E. obscura* [334];

E. peromysci [41, 135]; *E. pomerantzi* [10, 41]; *E. radfordi* [41, 135, 334];

E. simulans [334]; *Euschoengastoides hoplai* [10, 39]; *E. neotomae* [187];
Hyponeocula arenicola [10]; *H. montanensis* [1]; *Microtrombicula nasalis*
[185]; *M. trisetica* [41, 280]; *Miyatrombicula scottae* [36, 41];
Neotrombicula jewetti [41]; *Trombicula belkini* [1, 39, 41, 135, 273]

Phenacomys intermedius

Trombiculidae: *Euschoengastia sciruicola* [48]; *Neotrombicula harperi* [164]; *N.*
microti [164]

Procyon lotor

Trombiculidae: *Eutrombicula alfreddugesi* [154, 183, 203]; *E. masoni* [104, 154];
E. multisetosa [104, 247]; *Miyatrombicula cynos* [36, 101];
Neotrombicula microti [293, 299, 303]; *N. whartoni* [223, 293, 299, 303];
Walchia sp. [109]

Rattus norvegicus

Trombiculidae: *Euschoengastia diversa* [183]; *E. micheneri* [135]; *E. peromysci*
[207]; *Eutrombicula alfreddugesi* [183, 220, 291, 293, 303, 323]; *E.*
masoni [258]; *Miyatrombicula cynos* [207]; *M. esoensis* [328];
Neotrombicula lipovskyi [164, 183]; *N. whartoni* [207]

Rattus rattus

Trombiculidae: *Euschoengastia brennani* [334]; *E. peromysci* [80]; *Eutrombicula*
alfreddugesi [154, 220]; *E. batatas* [325-327]; *E. cinnabaris* [80];
Hexidionis jessiema [38]

Reithrodontomys fulvescens

Trombiculidae: *Eutrombicula alfreddugesi* [323]; *Neotrombicula whartoni* [164];
Pseudoschongastia hungerfordi [177]; *Trombicula lipovsky* [44]

Reithrodontomys humulis

Trombiculidae: *Euschoengastia peromysci* [141, 225]; *Leptotrombidium*
peromysci [225]

Reithrodontomys megalotis

Leeuwenhoekiiidae: *Comatacarus pusillus* [127]; *Leeuwenhoekia americana* [183]

Trombiculidae: *Dermadelema furmani* [135, 232]; *Euschoengastia ambocalis* [20,
135, 333]; *E. criceticola* [41, 135]; *E. diversa* [183]; *E. fasolla* [267]; *E.*
lanei [39]; *E. peromysci* [41, 135, 183]; *E. radfordi* [41, 135, 334];
Euschoengastoides neotomae [187]; *E. sleeperi* [188]; *Eutrombicula*
alfreddugesi [183, 323]; *Hexidionis harveyi* [188]; *Hyponeocula arenicola*
[260]; *Kayella lacerta* [135]; *Neotrombicula californica* [41, 135]; *N.*
cavicola [135]; *N. jewetti* [41]; *N. lipovskyi* [164, 183]; *N. subsignata*
[10]; *Pseudoschongastia hungerfordi* [55, 183]; *Trombicula autumnalis*
[164]; *T. belkini* [323]; *T. loomisi* [164]; *Walchioides whartoni* [188]

Scalopus aquaticus

Trombiculidae: *Euschoengastia trigenuala* [183, 293, 303]; *E. lipovskyana* [183];
Parasecia gurneyi [182-183]

Scapanus latimanus

Trombiculidae: *Euschoengastia criceticola* [41]; *E. puerilis* [135]; *Neotrombicula*
jewetti [41, 135]

Scapanus townsendi

Trombiculidae: *Neotrombicula brennani* [339]; *N. microti* [44]

Sciurus carolinensis

Trombiculidae: *Cheladonta micheneri* [178, 183]; *Euschoengastia jonesi* [183];
E. peromysci [109]; *E. setosa* [183]; *Eutrombicula alfreddugesi* [154, 203,
212, 220, 247, 293, 303, 312, 322]; *E. splendens* [79, 109, 220, 322];
Leptotrombidium peromysci [293, 303, 322]; *Microtrombicula trisetica*
[183, 280, 293, 303, 312]; *Miyatrombicula cynos* [79, 183];
Neotrombicula fitchi [165, 181, 183, 252, 293, 303, 312]; *N. lipovskyi*
[164, 183]; *N. sylvilagi* [164, 183]; *N. whartoni* [44, 79, 109, 183, 293,
303, 312, 320]; *Parasecia gurneyi* [182-183, 322]; *Walchia americana*
[183, 293, 303, 312]

Sciurus griseus

Trombiculidae: *Euschoengastia radfordi* [41]; *Walchia americana* [135]

Sciurus niger

Trombiculidae: *Euschoengastia diversa* [183]; *E. setosa* [183]; *E. trigenuala*
[183]; *Eutrombicula alfreddugesi* [154, 183, 219, 293, 303, 312, 323]; *E.*
lipovskyana [183]; *Leptotrombidium peromysci* [293, 303];
Miyatrombicula cynos [88, 183, 293, 303, 312]; *M. jonesae* [183];
Neotrombicula fitchi [55, 181, 183, 293, 303, 312]; *N. lipovskyi* [164,
183]; *N. sylvilagi* [164, 183, 293, 303, 312]; *N. whartoni* [44, 55, 164, 183,
220, 293, 303, 312]; *Parasecia gurneyi* [182-183]; *Trombicula kardosi*
[55, 181, 183]; *Walchia americana* [55, 183, 293, 303, 312]

Sigmodon hispidus

Leeuwenhoekiidae: *Odontacarus cayolargoensis* [37, 191]

Trombiculidae: *Euschoengastia diversa* [183-184]; *E. peromysci* [150, 183]; *E. trigenuala* [183]; *Euschoengastoides arizonae* [200]; *E. loomisi* [200]; *E. neotomae* [187]; *Eutrombicula alfreddugesi* [55, 154, 183, 188, 200, 203, 220, 242, 323]; *E. batatas* [154]; *E. cinnabaris* [80]; *E. lipovskyana* [183, 323]; *E. masoni* [104, 154]; *E. multisetosa* [326-327]; *E. splendens* [220, 320, 326-327]; *Hexidionis allredi* [188]; *H. jessiamae* [135]; *Leptotrombidium peromysci* [80]; *Neotrombicula lipovskyi* [55, 164, 183]; *N. whartoni* [44, 109, 140, 164, 191]; *Parasecia gurneyi* [191]; *Pseudoschongastia farneri* [183]; *P. hungerfordi* [183]

Sigmodon littoralis

Trombiculidae: *Eutrombicula masoni* [104, 154]; *E. multisetosa* [104, 247];
Walchia americana [247]

Sigmodon ochrognathus

Trombiculidae: *Euschoengastia criceticola* [188]; *E. numerosa* [334]; *E. radfordi* [188]; *Euschoengastoides loomisi* [188, 200]; *Fonsecia kansasensis* [188]; *Kayella lacerta* [188]; *Pseudoschongastia farneri* [188]; *P. hungerfordi* [188]

Sorex arcticus

Trombiculidae: *Neotrombicula harperi* [174]

Sorex cinereus

Trombiculidae: *Cheladonta ouachitensis* [302]; *Euschoengastia blarinae* [109, 151, 174, 218, 328]; *E. jamesoni* [32, 151, 272, 304]; *E. jonesi* [302]; *E.*

ohioensis [293, 303]; *E. peromysci* [241, 297, 304]; *E. setosa* [88];
Leptotrombidium peromysci [118](nr.), [304]; *Miyatrombicula esoensis*
[296]; *Neotrombicula cavicola* [302]; *N. harperi* [296]

Sorex dispar

Trombiculidae: *Euschoengastia jamesoni* [226, 297]; *Neotrombicula cavicola*
[226]; *N. microti* [44]

Sorex fumeus

Trombiculidae: *Cheladonta ouachitensis* [302]; *Euschoengastia blarinae* [109,
151, 297, 304]; *E. jamesoni* [32, 151, 241-242, 272, 294, 297, 304]; *E.*
jonesi [302]; *E. peromysci* [109, 297, 304]; *E. whitakeri* [294, 330];
Miyatrombicula esoensis [296]; *Neotrombicula cavicola* [294, 302]; *N.*
harperi [297]; *N. microti* [297]

Sorex gaspensis

Trombiculidae: *Miyatrombicula esoensis* [296]

Sorex hoyi

Leeuwenhoekidae: *Leeuwenhoekia americana* [294]

Trombiculidae: *Euschoengastia jamesoni* [294]; *Miyatrombicula esoensis* [296]

Sorex longirostris

Trombiculidae: *Euschoengastia blarinae* [109]; *Eutrombicula splendens* [118]

Sorex obscurus

Trombiculidae: *Euschoengastia oregonensis* [39]

Sorex ornatus

Trombiculidae: *Euschoengastia criceticola* [135]

Sorex pacificus

Leeuwenhoekiiidae: *Leeuwenhoekia americana* [86, 135]

Trombiculidae: *Euschoengastia oregonensis* [135]; *Neotrombicula cavicola* [135]

Sorex palustris

Trombiculidae: *Cheladonta ouachitensis* [302]; *Euschoengastia blarinae* [311];

E. jonesi [302]; *E. oregonensis* [153]; *E. peromysci* [302]; *E. soricinus*

[135, 153]; *Miyatrombicula esoensis* [296]; *Neotrombicula cavicola* [302];

N. microti [262, 311]

Sorex tenellus

Trombiculidae: *Euschoengastia criceticola* [12]; *Hyponeocula arenicola* [12]

Sorex trowbridgii

Leeuwenhoekiiidae: *Leeuwenhoekia americana* [86, 135, 153]; *Shunsennia ochotona* [135]

Trombiculidae: *Euschoengastia oregonensis* [86, 135, 153]; *E. peromysci* [153];

E. soricinus [135, 153]; *Neoschoengastia americana* [135]; *Neotrombicula*

brennani [135, 153]; *N. californica* [153]; *N. cavicola* [135]; *N. jewetti*

[44, 153]

Sorex vagrans

Leeuwenhoekiiidae: *Leeuwenhoekia americana* [86, 135]

Trombiculidae: *Euschoengastia oregonensis* [86]; *Neotrombicula cavicola* [86];

N. harperi [86]

Spermophilus armatus

Trombiculidae: *Euschoengastia criceticola* [10]; *E. sciuricola* [10, 39];

Neotrombicula californica [10, 39]; *N. harperi* [39]; *Trombicula bakeri*
[10]

Spermophilus beecheyi

Leeuwenhoekiidae: *Leeuwenhoekia americana* [41]; *Odontacarus hirsutus* [41,
135]; *O. linsdalei* [41]

Trombiculidae: *Dermadelema furmani* [135]; *Euschoengastia criceticola* [41,
135]; *E. micheneri* [135]; *E. neotomae* (nr.) [20]; *E. nihi* [41]; *E.*
pomerantzi [41, 135]; *E. radfordi* [41, 135]; *E. romola* [41]; *E. sciuricola*
[135]; *Hyponeocula imitator* [260]; *Kayella lacerta* [20, 41, 135];
Miyatrombicula scottae [41]; *Neotrombicula californica* [41, 135];
Trombicula belkini [20, 41]

Spermophilus beldingi

Trombiculidae: *Euschoengastia citellicola* [135]; *E. cordiremus* [135]; *E.*
oregonensis [135]; *E. radfordi* [135]; *Hyponeocula montanensis* [135,
260]; *Neotrombicula californica* [135]; *N. subsignata* [135]

Spermophilus columbianus

Trombiculidae: *Euschoengastia luteodema* [32]; *Neotrombicula harperi* [44];
Trombicula varians [44]

Spermophilus lateralis

Leeuwenhoekiidae: *Chatia setosa* [29, 55]; *Odontacarus hirsutus* [135]

Trombiculidae: *Dermadelema furmani* [135]; *Euschoengastia citellicola* [135]; *E.*
cordiremus [10, 32]; *E. criceticola* [10, 32]; *E. decipiens* [10, 39]; *E.*

hoffmannae [10, 39, 135]; *E. luteodema* [10]; *E. oregonensis* [135]; *E. pomerantzi* [135]; *E. radfordi* [41]; *E. sciuricola* [10, 39, 135];
Hyponeocula montanensis [10, 135, 260]; *Kayella lacerta* [10];
Neotrombicula californica [44]; *N. harperi* [10, 44, 164]; *Trombicula belkini* [39]; *T. eusignata* [44]; *T. subignata* [44, 164]

Spermophilus leucurus

Trombiculidae: *Euschoengastoides hoplai* [10]; *Trombicula belkini* [39]

Spermophilus mexicanus

Trombiculidae: *Hyponeocula montanensis* [191, 260]

Spermophilus richardsoni

Trombiculidae: *Euschoengastia campi* [48]; *E. oregonensis* [48]; *Hyponeocula arenicola* [181, 260]; *H. montanensis* [48]

Spermophilus spilosoma

Trombiculidae: *Euschoengastia cynomyicola* [10]; *Euschoengastoides hoplai* [188]; *Hyponeocula arenicola* [10, 188]; *H. montanensis* [188];
Leptotrombidium panamensis [188]; *Parasecia gurneyi* [188]

Spermophilus tereticaudus

Trombiculidae: *Hyponeocula arenicola* [12, 173]; *H. imitator* [260]

Spermophilus tridecemlineatus

Trombiculidae: *Euschoengastia cynomyicola* [57, 183]; *E. michiganensis* [328];
Euschoengastoides hoplai [181, 187]; *Eutrombicula alfreddugesi* [183, 323]; *Hyponeocula montanensis* [55, 183, 260]; *Neotrombicula subsignata* [211]; *Parasecia gurneyi* [55, 182-183]

Spermophilus variegates

Trombiculidae: *Euschoengastia sciuricola* [39]; *Eutrombicula alfreddugesi* [188]

Sylvilagus audubonii

Leeuwenhoekiiidae: *Odontacarus dentatus* [129, 191]

Trombiculidae: *Euschoengastia decipiens* [10]; *E. eadsi* [191]; *E. heteromyicola* [334]; *E. radfordi* [41]; *Euschoengastoides eadsi* [188]; *Eutrombicula alfreddugesi* [191]; *E. batatas* [21]; *Hexidionis allredi* [200]; *Kayella lacerta* [41]; *Neotrombicula dinehartae* [41]; *Pseudoschongastia hungerfordi* [55, 191]

Sylvilagus bachmani

Trombiculidae: *Euschoengastia numerosa* [334]; *E. radfordi* [135];
Neotrombicula californica [41, 135]

Sylvilagus floridanus

Leeuwenhoekiiidae: *Acomatacarus whartoni* [137]; *Odontacarus dentatus* [183];
Xenodontacarus plumosus [183]

Trombiculidae: *Cheladonta micheneri* [55, 178, 183]; *Euschoengastia diversa* [55, 183]; *E. jonesi* [179, 183]; *E. peromysci* [55, 162, 183]; *E. rubra* [109]; *E. setosa* [55, 109, 183, 279, 293, 303]; *Euschoengastoides hoplai* [183]; *E. loomisi* [57, 183]; *Eutrombicula alfreddugesi* [55, 105, 109, 154, 183, 203, 220, 267, 279, 293, 323]; *E. batatas* [154]; *E. lipovskyana* [55, 183, 230, 323]; *E. masoni* [154]; *E. splendens* [220]; *Hyponeocula montanensis* [183]; *Kayella lacerta* [183]; *Neoschongastia americana* [55, 58, 183]; *Neotrombicula cavicola* [44]; *N. lipovskyi* [44, 55, 164, 183, 279,

293, 303]; *N. sylvilagi* [44, 183]; *N. whartoni* [44, 55, 109, 141, 164, 183, 223, 279, 293, 303]; *Parasecia gurneyi* [182-183]; *Pseudoschongastia hungerfordi* [55, 177, 183]; *Trombicula autumnalis* [142]; *T. irritans* [277]; *T. subignata* [44]; *T. tlalzahuatl* [90]; *Walchia americana* [183];

Sylvilagus idahoensis

Trombiculidae: *Euschoengastia decipiens* [6, 10]; *E. radfordi* [10]

Sylvilagus nuttallii

Leeuwenhoekidae: *Odontacarus hirsutus* [153]

Trombiculidae: *Euschoengastia decipiens* [6, 10]; *E. radfordi* [6]; *Hyponeocula montanensis* [30, 260]; *Neotrombicula californica* [44]; *N. microti* [44]

Sylvilagus palustris

Trombiculidae: *Neotrombicula whartoni* [109]

Synaptomys borealis

Trombiculidae: *Miyatrombicula esoensis* [296]

Synaptomys cooperi

Trombiculidae: *Euschoengastia diversa* [109]; *E. ohioensis* [109, 278, 293, 303]; *E. peromysci* [109, 241, 278, 293, 303]; *E. setosa* [278, 293, 303]; *Eutrombicula alfreddugesi* [278, 293, 303]; *Miyatrombicula esoensis* [296]; *Neotrombicula harperi* [296]

Tadarida brasiliensis

Trombiculidae: *Chiroptella mexicana* [66, 149]; *Eutrombicula alfreddugesi* [323]; *Microtrombicula merrihewi* [55, 66, 193, 200]; *Speleocola tadaridae* [55, 66, 183, 191]; *Trombicula* sp. [245]

Tadarida femorosacca

Trombiculidae: *Speleocola tadaridae* [200]

Tadarida macrotis

Trombiculidae: *Tecomatlana texana* [295]

Tamias alpinus

Trombiculidae: *Neotrombicula microti* [44]

Tamias amoenus

Trombiculidae: *Euschoengastia sciuricola* [48]; *Neotrombicula californica* [135];

N. harperi [44]; *N. microti* [44, 48]; *Trombicula eusignata* [44]

Tamias dorsalis

Trombiculidae: *Euschoengastia fasolla* [12]

Tamias merriami

Trombiculidae: *Neotrombicula dinehartae* [41]

Tamias minimus

Trombiculidae: *Euschoengastia criceticola* [88]; *E. decipiens* [6]; *E. fasolla* [6];

E. pomerantzi [6]; *E. sciuricola* [6, 10]; *Eutrombicula alfreddugesi* [88];

Miyatrombicula esoensis [88]; *Neotrombicula harperi* [10, 88, 174, 328]

Tamias quadrivittatus

Trombiculidae: *Euschoengastia oregonensis* [10]

Tamias speciosus

Trombiculidae: *Euschoengastia ambocalis* [333]

Tamias striatus

Leeuwenhoekidae: *Leeuwenhoekia americana* [123]

Trombiculidae: *Euschoengastia jamesoni* [304]; *E. michiganensis* [304, 328]; *E. peromysci* [59, 109, 123, 141, 228, 293, 303, 309]; *E. setosa* [139, 228, 304]; *E. trigenulala* [59]; *Eutrombicula alfreddugesi* [75-76, 183, 293, 303, 309]; *E. splendens* [228]; *Leptotrombidium peromysci* [88]; *Miyatrombicula esoensis* [228, 296, 328]; *Neotrombicula bisignata* [228]; *N. fitchi* [293, 309]; *N. harperi* [94, 174, 228, 296]; *N. whartoni* [228, 293, 303, 309]; *Walchia americana* [293, 303, 309]

Tamias townsendi

Leeuwenhoekiaae: *Chatia setosa* [135]

Trombiculidae: *Euschoengastia oregonensis* [86, 135]; *E. peromysci* [135]; *E. radfordi* [41]; *E. sciuricola* [135]; *Neotrombicula californica* [135]; *N. cavicola* [86]; *N. harperi* [86]

Tamias umbrinus

Trombiculidae: *Euschoengastia pomerantzi* [39]; *E. sciuricola* [39]; *Hyponeocula montanensis* [39]; *Trombicula kardosi* [181]; *Walchia americana* [39]

Tamiasciurus douglasii

Leeuwenhoekiaae: *Chatia cunninghamae* [124]

Trombiculidae: *Euschoengastia numerosa* [334]; *E. oregonensis* [135]; *E. pomerantzi* [135]; *E. radfordi* [41]; *E. simulans* [334]; *Miyatrombicula cynos* [36, 135]; *Neotrombicula jewetti* [135]

Tamiasciurus hudsonicus

Leeuwenhoekiaae: *Chatia setosa* [29, 55, 124]; *Leeuwenhoekia dolosa* [135]

Trombiculidae: *Euschoengastia luteodema* [32]; *E. michiganensis* [328]; *E. peromysci* [109, 165, 241, 252, 328]; *E. sciurucola* [39, 91, 109]; *E. setosa* [165, 175, 241, 252, 293, 309]; *Leptotrombidium peromysci* [293, 303, 309]; *Miyatrombicula cynos* [293, 303, 309], [139](nr.); *M. esoensis* [267, 328]; *Neotrombicula bisignata* [44]; *N. californica* [44]; *N. fitchi* [165, 252, 293, 303, 309]; *N. harperi* [44, 94, 164, 174, 328]; *N. microti* [44, 164, 328, 337]; *N. whartoni* [293, 309]; *Trombicula browni* [44, 164]; *Walchia americana* [106, 165, 252, 293, 309]

Thomomys bottae

Leeuwenhoekidae: *Leeuwenhoekia americana* [41]; *L. dolosa* [248];

Odontacarus hirsutus [41]

Trombiculidae: *Dermadelema furmani* [41, 135]; *D. sleeperi* [232];

Euschoengastia criceticola [41]; *E. radfordi* [41]; *Euschoengastoides arizonae* [188]; *Hyponeocula imitator* [260]; *Neotrombicula californica* [41, 196]; *N. dinehartae* [41]; *N. jewetti* [41]; *Trombicula pseudoautumnalis* [135]

Thomomys monticola

Trombiculidae: *Neotrombicula californica* [44]

Thomomys neglectus

Trombiculidae: *Neotrombicula californica* [44, 103]

Thomomys talpoides

Trombiculidae: *Euschoengastia decipiens* [6]

Thomomys umbrinus

Trombiculidae: *Euschoengastia hardyorum* [336]

Urocyon cinereoargenteus

Trombiculidae: *Euschoengastia numerosa* [87, 334]; *Eutrombicula alfreddugesi* [220]; *Neotrombicula lipovskyi* [293, 299, 303]; *N. whartoni* [293, 299, 303]

Ursus americanus

Trombiculidae: *Eutrombicula splendens* [62]

Vulpes vulpes

Trombiculidae: *Miyatrombicula jonesae* [293, 299, 303]; *Neotrombicula whartoni* [293, 299, 303]

Zapus hudsonius

Trombiculidae: *Euschoengastia diversa* [109]; *E. peromysci* [293, 303, 307]; *Eutrombicula alfreddugesi* [288, 293, 303, 307]; *E. splendens* [74]; *Leptotrombidium peromysci* [293, 303]; *Neoschongastia* sp. [288]; *Neotrombicula harperi* [88, 157, 164, 174, 292]; *N. lipovskyi* [157]; *N. microti* [441, 174, 292, 328, 337]; *N. sylvilagi* [164, 183]; *N. whartoni* [293, 303, 307]; *Trombicula browni* [164]; *T. subignata* [44, 288]

Zapus pacificus

Trombiculidae: *Euschoengastia peromysci* [153]; *Neotrombicula jewetti* [153]

Zapus princeps

Trombiculidae: *Euschoengastia radfordi* [292]; *Neotrombicula californica* [10, 292]; *N. harperi* [10, 39, 164]; *N. microti* [39, 164, 292]; *N. subignata* [164]

Zapus trinoatus

Trombiculidae: *Neotrombicula cavicola* [135, 292]; *N. harperi* [292]; *N. microti* [292]

GEOGRAPHIC DISTRIBUTION OF CHIGGERS OF NORTH AMERICAN VERTEBRATES

The states of the United States and the provinces of Canada are listed alphabetically below, together with the chiggers of vertebrates reported from each. Numbers refer to references.

ALABAMA (AL)

Leeuwenhoekiiidae: *Albeckia senase* [45]

Trombiculidae: *Acariscus hominis* [104]; *Blankaartia pauli* [56]; *Euschoengastia hamiltoni* [45]; *E. pipistrelli* [45]; *E. staffordi* [45]; *Eutrombicula alfreddugesi* [45]; *E. batatas* [45]; *Neoschongastia americana* [167]; *Parasecia gurneyi* [45]; *Perissopalla flagellisetula* [45]; *Trombicula tibbettsi* [45]

ALASKA (AK)

Leeuwenhoekiiidae: *Hannemania multifemorala* [183]

Trombiculidae: *Neoschongastia americana* [58]; *Trombicula alaskensis* [44]

ALBERTA (AB)

Trombiculidae: *Euschoengastia campi* [48]; *E. criceticola* [48]; *E. oregonensis* [48]; *E. sciuricola* [48]; *Hyponeocula arenicola* [181, 260]; *H.*

montanensis [48]; *Leptotrombidium myotis* [48]; *Neotrombicula microti*
[44, 48, 292]

ARIZONA (AZ)

Leeuwenhoekidae: *Acomatacarus arizonensis* [55, 103]; *Hannemania bufonis*
[199]; *H. hylae* [199]; *Whartonia perplexa* [26, 143]

Trombiculidae: *Chiroptella mexicana* [26]; *Dermadelema furmani* [232];
Euschoengastoides arizonae [187]; *E. imperfectus* [187]; *E. neotomae*
[187]; *E. tumidus* [187]; *E. webbi* [187]; *Eutrombicula batatas* [21]; *E.*
chiricahuae [22], *E. lipovskyana* [133]; *Hexidionis deserti* [195];
Hyponeocula arenicola [173, 260]; *H. imitator* [260]; *H. sauricola* [260];
Leptotrombidium myotis [26]; *L. panamensis* [143](nr.); *Loomisia sprocssi*
[38, 143]; *L. univari* [143]; *Microtrombicula trisetica* [280]; *M. merrihewi*
[66]; *Otorhinophila desertorum* [201]; *O. parvisola* [201, 332];
Tecomatlana sandovali [26, 271]; *Trombicula univari* [38]

ARKANSAS (AR)

Leeuwenhoekidae: *Acomatacarus polychaetus* [137]; *A. whartoni* [137];
Hannemania dunni [16, 55]; *H. multifemorala* [183]

Trombiculidae: *Cheladonta ouachitensis* [55, 178]; *Euschoengastia pipistrelli*
[161, 250]; *E. setosa* [55]; *Eutrombicula alfreddugesi* [71, 209, 323]; *E.*
lipovskyana [323]; *Leptotrombidium myotis* [250]; *Microtrombicula*
trisetica [280]; *Neoschongastia americana* [71]; *Neotrombicula lipovskyi*
[164]; *N. richmondi* [164]; *N. whartoni* [164]; *Parasecia gurneyi* [55, 182]

BRITISH COLUMBIA (BC)

Trombiculidae: *Euschoengastia sciuricola* [109]; *Neotrombicula cavicola* [292];
N. harperi [169, 292]; *N. microti* [292]

CALIFORNIA (CA)

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [20, 33, 135, 197, 233, 257];
Albeckia albecki [275]; *Chatia setosa* [135, 153]; *Comatacarus stewarti*
[135]; *Hannemania bufonis* [199, 283]; *H. hylae* [92, 135, 199, 283];
Leeuwenhoekia americana [41, 135, 153]; *L. dolosa* [135, 153, 248];
Odontacarus hirsutus [41, 99, 103, 135, 153]; *O. kromani* [126]; *O.*
linsdalei [41, 189]; *O. shawi* [37, 233]; *O. villosus* [126]; *Sasacarus*
whartoni [135]; *Shunsennia ochotona* [135, 153]; *Whartonia glenni* [276];
W. perplexa [135, 171]; *Xenodontacarus brevicealcar* [192]

Trombiculidae: *Aplodontophila aplodontiae* [135, 335]; *Dermadelema furmani*
[41, 135, 189, 232]; *D. lynnae* [232]; *D. mojavnense* [232]; *D. sleeperi*
[232]; *Euschoengastia ambocalis* [20, 91, 109, 135, 189, 333]; *E.*
americana [102]; *E. brennani* [334]; *E. citellicola* [135]; *E. cordiremus*
[135]; *E. criceticola* [41, 135, 153, 189]; *E. decipiens* [135, 261, 334]; *E.*
enemi [41]; *E. frondifera* [135, 189]; *E. hardyorum* [336]; *E.*
heteromyicola [334]; *E. hoffmannae* [135]; *E. latchmani* [15, 46, 334]; *E.*
luteodema [135]; *E. marginalis* [336]; *E. micheneri* [135]; *E. nihi* [41]; *E.*
numerosa [334]; *E. obscura* [334]; *E. oregonensis* [135, 153]; *E. otophila*
[189]; *E. peromysci* [41, 135, 153]; *E. pomerantzi* [41, 135]; *E. puerilis*
[135]; *E. radfordi* [15, 41, 135, 153, 189, 216, 334]; *E. romola* [41]; *E.*
sciuricola [135, 153]; *E. simulans* [334]; *E. soricinus* [135, 153];

Euschoengastoides arizonae [187]; *E. imperfectus* [41, 187]; *E. longitarsala* [197, 233, 257]; *E. neotomae* [187], [20] (nr.); *E. webbi* [187]; *Eutrombicula alfreddugesi* [67, 105]; *E. batatas* [21]; *Hexidionis deserti* [195]; *H. doremi* [195]; *H. jessiema* [135]; *H. lacerticola* [186, 197]; *Hyponeocula arenicola* [233, 260]; *H. fovea* [260]; *H. imitator* [260]; *H. luciae* [260]; *H. montanensis* [135, 260]; *Kayella lacerta* [20, 32, 41, 109, 135, 153, 233]; *Leptotrombidium myotis* [274]; *Loomisia sprocssi* [38]; *Microtrombicula merrihewi* [66]; *M. nasalis* [185]; *M. trisetica* [41, 280]; *M. wrenni* [185]; *Miyatrombicula cynos* [36, 135]; *M. scottae* [36, 41, 189]; *Neoschongastia americana* [41, 135, 210]; *N. fullbergae* [135]; *Neotrombicula brennani* [135, 153]; *N. californica* [41, 44, 103, 131-132, 135, 153, 196]; *N. cavicola* [135]; *N. dinehartae* [41, 44, 135, 189, 216]; *N. harperi* [135, 197, 292]; *N. jewetti* [41, 44, 135, 153, 216]; *N. microti* [44, 153, 292]; *N. subsignata* [135]; *N. superciliaris* [196]; *Otorhinophila desertorum* [201]; *O. parvisola* [201, 332]; *O. sola* [135, 201, 332]; *O. xerophila* [201]; *Pseudoschongastia occidentalis* [35, 41, 153, 189]; *Tecomatlana watkinsi* [271]; *Trombicula belkini* [20, 24, 41, 55, 134-135, 152, 197, 233, 273, 282, 323]; *T. pseudoautumnalis* [135]; *Walchia americana* [135]

COLORADO (CO)

Leeuwenhoekidae: *Comatacarus pusillus* [127]; *Hannemania* sp. [110];

Leeuwenhoekia americana [73, 111]; *Odontacarus micheneri* [111, 137]

Trombiculidae: *Euschoengastia criceticola* [73, 111]; *E. dicipiens* [73, 334]; *E. finleyi* [54, 111]; *E. guntheri* [109, 111, 236-237]; *E. hoffmannae* [111]; *E. lanei* [73]; *E. peromysci* [73]; *Euschoengastoides hoplai* [181]; *E. neotomae* [187]; *Eutrombicula alfreddugesi* [72, 111, 323]; *Hyponeocula arenicola* [111, 181]; *H. montanensis* [260]; *Kayella lacerta* [111]; *Leptotrombidium myotis* [229, 270]; *L. panamensis* [111]; *Neoschongastia brennani* [58]; *Neotrombicula harperi* [44, 111, 164]; *N. microti* [44, 94, 111, 164]; *Parasecia gurneyi* [182]; *Pseudoschongastia farneri* [177]; *Trombicula autumnalis* [111, 164]; *T. finleyi* [111, 164]; *T. loomisi* [73, 164]; *T. ornata* [193]; *T. parkeri* [236-237]; *T. subignata* [44, 164]

CONNECTICUT (CT)

Trombiculidae: *Neotrombicula whartoni* [228]

DELAWARE (DE)

Trombiculidae: *Euschoengastia peromysci* [205, 266]; *Eutrombicula alfreddugesi* [105]; *E. tropica* [205]; *Neotrombicula whartoni* [205]

DISTRICT OF COLUMBIA (DC)

Trombiculidae: *Euschoengastia blarinae* [99]

FLORIDA (FL)

Leeuwenhoekidae: *Hannemania hegeneri* [147]; *Odontacarus cayolargoensis* [37]

Trombiculidae: *Acariscus hominis* [104]; *Blankaartia pauli* [56, 247]; *B. sinnamaryi* [255]; *Cheladonta ouachitensis* [80]; *Euschoengastia blarinae* [109]; *E. peromysci* [68, 80, 176]; *Eutrombicula alfreddugesi* [219, 247,

322]; *E. batatas* [325-327]; *E. cinnabaris* [80]; *E. masoni* [104, 108]; *E. multisetosa* [103, 247, 326-327]; *E. splendens* [62, 64, 117, 247, 254, 322, 326-327]; *Leptotrombidium peromysci* [80, 322]; *Microtrombicula crossleyi* [176, 280]; *Neoschongastia americana* [71]; *Neotrombicula whartoni* [44, 71, 80]; *Parasecia gurneyi* [322]; *Walchia americana* [103, 176, 247]; *Whartonacarus floridensis* [213]

GEORGIA (GA)

Leeuwenhoekidae: *Hannemania eltoni* [59], *H. hegneri* [59]; *Leeuwenhoekia americana* [225]

Trombiculidae: *Euschoengastia peromysci* [59, 78, 225, 320]; *E. setosa* [101, 109, 320]; *E. trigenuilala* [59, 101]; *Eutrombicula alfreddugesi* [78, 203, 220, 234]; *E. batatas* [78, 320]; *E. cinnabaris* [320]; *E. masoni* [104]; *E. splendens* [79, 220, 320]; *Leptotrombidium peromysci* [225, 234-235, 320]; *Miyatrombicula cynos* [79]; *M. jonesae* [78]; *Neoschongastia americana* [59, 71]; *Neotrombicula richmondi* [180]; *N. whartoni* [44, 79, 140, 166, 220, 234, 320]; *Parasecia gurneyi* [59, 320]; *Trombicula autumnalis* [59]; *Walchia americana* [59]

IDAHO (ID)

Leeuwenhoekidae: *Chatia setosa* [29]; *Leeuwenhoekia americana* [6]; *L. dolosa* [135]; *Odontacarus linsdalei* [6]; *O. micheneri* [6]; *Shunsennia ochotona* [6]

Trombiculidae: *Euschoengastia americana* [102]; *E. cordiremus* [6]; *E. criceticola* [6, 32]; *E. decipiens* [6]; *E. fasolla* [6]; *E. lanei* [6]; *E.*

luteodema 6, 28, 103; *E. numerosa* [334]; *E. oregonensis* [6]; *E. pomerantzi* [6]; *E. radfordi* [6]; *E. sciuricola* [6, 109]; *Hexidionis doremi* [6]; *Hyponeocula arenicola* [6]; *Neotrombicula californica* [44]; *N. harperi* [44]; *Trombicula bakeri* [6]; *T. belkini* [6]

ILLINOIS (IL)

Trombiculidae: *Euschoengastia diversa* [227]; *E. ohioensis* [227]; *E. peromysci* [18, 227]; *E. pipistrelli* [109, 315]; *E. trigenuala* [256]; *Eutrombicula alfreddugesi* [105, 227]; *Miyatrombicula jonesae* [36]; *Neotrombicula fitchi* [181]; *N. lipovskyi* [227]; *N. sylvilagi* [44]; *N. whartoni* [18, 44, 227]

INDIANA (IN)

Leeuwenhoekidae: *Leeuwenhoekia americana* [294]

Trombiculidae: *Cheladonta ouachitensis* [293, 303]; *Euschoengastia hamiltoni* [290, 293, 303]; *E. jamesoni* [294]; *E. marmotae* [293, 303, 310]; *E. ohioensis* [278, 293, 303]; *E. peromysci* [19, 61, 278, 293, 299, 307, 309]; *E. pipistrelli* [290, 293, 303, 308]; *E. setosa* [61, 278-279, 293, 303, 309]; *E. trigenuala* [293, 303]; *E. whitakeri* [294, 330]; *Eutrombicula alfreddugesi* [61, 278-279, 291, 293, 299, 301, 303, 307, 309-310, 312]; *E. splendens* [118]; *Leptotrombidium myotis* [290, 293, 303]; *L. peromysci* [118](nr.), [293, 303, 309]; *Mackiena migratoria* [222]; *Microtrombicula trisetica* [293, 303, 312]; *Miyatrombicula cynos* [293, 303, 309, 312]; *M. jonesae* [293, 299, 303]; *Neotrombicula cavicola* [61, 294]; *N. fitchi* [293, 303, 309, 312]; *N. lipovskyi* [279, 293, 299, 303]; *N. microti* [290, 293, 299, 303]; *N. sylvilagi* [293, 303, 312]; *N. waynensis* [61]; *N. whartoni*

[279, 293, 299, 301, 303, 307, 309, 312]; *Walchia americana* [293, 303, 309, 312]

IOWA (IA)

Trombiculidae: *Euschoengastia diversa* [109]; *Leptotrombidium myotis* [55]

KANSAS (KS)

Leeuwenhoekiidae: *Acomatacarus arizonensis* [114, 183]; *Albeckia senase* [55, 137, 183]; *Comatacarus pusillus* [127]; *Hannemania dunnii* [183]; *H. eltoni* [55, 183]; *H. multifemorala* [183]; *Leeuwenhoekia americana* [55, 183]; *Odontacarus dentatus* [129, 137, 183]; *Xenodontacarus plumosus* [55, 136, 183, 192]

Trombiculidae: *Cheladonta micheneri* [55, 178, 183]; *Euschoengastia criceticola* [55, 183]; *E. cynomyicola* [57, 183]; *E. diversa* [55, 183-184, 238, 246]; *E. jonesi* [55, 179, 183]; *E. peromysci* [55, 150, 183, 238]; *E. pipistrelli* [161, 183]; *E. setosa* [55, 183, 238]; *E. trigenuala* [55, 183-184]; *Euschoengastoides hoplai* [55, 181, 183, 187]; *E. loomisi* [55, 57, 183]; *E. neotomae* [187]; *Eutrombicula alfreddugesi* [55, 105, 112-115, 183, 238, 323]; *E. batatas* [183, 323]; *E. lipovskyana* [55, 113-114, 183, 238, 323]; *Fonsecia kansasensis* [55, 182-183]; *Hyponeocula arenicola* [181, 183, 260]; *H. montanensis* [55, 183, 260]; *Kayella lacerta* [183]; *Leptotrombidium myotis* [183]; *Microtrombicula crossleyi* [55, 181, 183, 280]; *M. trisetica* [55, 183, 190, 238, 280]; *Miyatrombicula cynos* [183, 238]; *M. jonesae* [183]; *Neoschongastia americana* [55, 183]; *N. brennani* [55, 58, 183]; *Neotrombicula fitchi* [55, 181, 183, 246]; *N. lipovskyi* [44,

55, 164, 183, 238]; *N. sylvilagi* [44, 164, 183, 238]; *N. whartoni* [44, 55, 164, 183, 318]; *Parasecia gurneyi* [55, 112, 182-183]; *Pseudoschongastia farneri* [55, 177, 183, 238]; *P. hungerfordi* [55, 177, 183, 238]; *Speleocola tadaridae* [183]; *Trombicula kardosi* [55, 181, 183]; *T. ornata* [55, 183, 193]; *T. twentei* [181, 183]; *Walchia americana* [55, 183]

KENTUCKY (KY)

Trombiculidae: *Euschoengastia peromysci* [49, 109]; *E. pipistrelli* [109];
Neotrombicula cavicola [49]

LOUISIANA (LA)

Trombiculidae: *Eutrombicula lipovskyana* [55]; *E. splendens* [55, 146]; *F. palmella* [43]; *Neoschongastia americana* [58]; *Parasecia gurneyi* [182]

MAINE (ME)

Trombiculidae: *Leptotrombidium myotis* [96, 104, 274, 285]; *Neotrombicula bisignata* [44, 96]; *N. harperi* [44, 164]; *N. microti* [164]

MARYLAND (MD)

Leeuwenhoekidae: *Whomersia strandtmani* [51]

Trombiculidae: *Euschoengastia peromysci* [74, 99, 109]; *E. setosa* [74];
Eutrombicula masoni [107]; *E. splendens* [74]; *Miyatrombicula jonesae* [74]; *Neotrombicula whartoni* [44, 74, 77]; *Parasecia gurneyi* [101, 104, 182]; *Trombicula irritans* [93]; *T. tlalzahuatl* [90]; *Walchia americana* [74]

MASSACHUSETTS (MA)

Trombiculidae: *Euschoengastia peromysci* [96, 109, 228]; *E. setosa* [228];
Eutrombicula alfreddugesi [25]; *E. masoni* [104]; *E. splendens* [228];
Miyatrombicula esoensis [228]; *Neotrombicula harperi* [228]; *N. whartoni*
[228]

MICHIGAN (MI)

Trombiculidae: *Euschoengastia blarinae* [174, 328]; *E. michiganensis* [328]; *E.*
peromysci [328]; *E. setosa* [174, 328]; *Eutrombicula alfreddugesi* [105,
269]; *E. splendens* [328]; *Hemitrombicula simplex* [102];
Leptotrombidium myotis [174, 328]; *Leptotrombidium peromysci* [328];
Miyatrombicula esoensis [328]; *Neotrombicula bisignata* [44]; *N. harperi*
[174, 321, 328]; *N. microti* [174, 321, 328]; *N. waynensis* [174], *Parasecia*
gurneyi [69, 328]

MINNESOTA (MN)

Trombiculidae: *Euschoengastia blarinae* [311]; *Eutrombicula alfreddugesi* [105];
Neotrombicula harperi [265, 292]; *N. microti* [265, 292, 311]

MISSISSIPPI (MS)

Leeuwenhoekiiidae: *Leeuwenhoekia americana* [123]

Trombiculidae: *Euschoengastia peromysci* [123]; *Neoschongastia americana*
[167]; *Neotrombicula cavicola* [44]; *N. whartoni* [44, 164]; *Trombicula*
rohweri [103]

MISSOURI (MO)

Leeuwenhoekiiidae: *Hannemania multifemorala* [183]

Trombiculidae: *Euschoengastia jonesi* [179]; *E. pipistrelli* [31, 109]; *E. trigenuala* [256]; *Eutrombicula splendens* [323]; *Neoschongastia americana* [58]; *Neotrombicula cavicola* [44]; *N. subsignata* [164]; *N. whartoni* [44, 164]; *Pseudoschongastia hungerfordi* [177]; *Trombicula lipovskyi* [44]

MONTANA (MT)

Leeuwenhoekiiidae: *Chatia setosa* [29, 55, 124]; *Shunsennia ochotona* [124, 236-237]; *Whartonia perplexa* [31]

Trombiculidae: *Euschoengastia cordiremus* [32, 109]; *E. criceticola* [32, 109]; *E. luteodema* [32, 109]; *E. numerosa* [334]; *E. samboni* [109, 236-237]; *E. sciuricola* [91, 109]; *E. setosa* [172]; *E. velata* [47]; *Hyponeocula montanensis* [30, 260]; *Leptotrombidium myotis* [160, 274]; *Neoschongastia fullbergae* [32]; *N. paenitens* [34]; *Neotrombicula californica* [44]; *N. harperi* [44]; *N. microti* [44, 164]; *Trombicula eptesici* [31]; *T. eusignata* [44]; *T. subignata* [44]; *T. varians* [44]

NEBRASKA (NE)

Leeuwenhoekiiidae: *Hanemania multifemorala* [55, 183]

Trombiculidae: *Cheladonta micheneri* [178]; *Euschoengastia cynomyicola* [55, 57]; *Eutrombicula alfreddugesi* [55, 323]; *Hyponeocula montanensis* [55]; *Neotrombicula fitchi* [181]; *N. lipovskyi* [164]; *N. whartoni* [164]; *Parasecia gurneyi* [182]; *Trombicula autumnalis* [164]; *T. loomisi* [164]

NEVADA (NV)

Leeuwenhoekiidae: *Acomatacarus arizonensis* [8-9, 11]; *Leeuwenhoekia americana* [13]; *Odontacarus chiiapanensis* [13]; *O. hirsutus* [12]; *O. linsdalei* [3-4, 12-13]; *O. micheneri* [8]; *Sasacarus whartoni* [12-13, 122]; *Whartonia perplexa* [12]

Trombiculidae: *Dermadelema furmani* [38, 232]; *Eushoengastia cordiremus* [12]; *E. criceticola* [3-4, 12-13]; *E. decipiens* [4, 12, 122, 334]; *E. fassola* [4, 12-13]; *E. heteromyicola* [334]; *E. lanei* [12]; *E. obesa* [13]; *E. radfordi* [13, 122]; *E. utahensis* [13]; *Hexidionis allredi* [13]; *H. deserti* [195]; *H. jessiemae* [4, 13, 122]; *H. lacerticola* [186]; *Hyponeocula arenicola* [3-4, 9, 122, 260]; *H. montanensis* [260]; *Kayella lacerta* [122]; *Leptotrombidium panamensis* [13]; *Otorhinophila sola* [13, 332]; *Pseudoschongastia aeci* [38]; *Trombicula belkini* [4, 13]; *T. loomisia* [4]; *T. veanda* [38]

NEW BRUNSWICK

Trombiculidae: *Euschoengastia blarinae* [296]; *E. setosa* [296]; *Miyatrombicula esoensis* [296]; *Neotrombicula harperi* [296]; *N. microti* [296]

NEWFOUNDLAND AND LABRADOR (NL)

Trombiculidae: *Neotrombicula microti* [44]

NEW HAMPSHIRE (NH)

Trombiculidae: *Euschoengastia setosa* [228]

NEW JERSEY (NJ)

Trombiculidae: *Euschoengastia blarinae* [207]; *E. marmotae* [207]; *E. ohioensis* [109]; *E. peromysci* [141, 207]; *E. pipistrelli* [340]; *E. setosa* [207];

Leptotrombidium myotis [207]; *Miyatrombicula cynos* [141, 207];
Neotrombicula fitchi [141] *N. whartoni* [141, 207]

NEW MEXICO (NM)

Leeuwenhoekiiidae: *Odontacarus morlani* [37]; *Hannemania* sp. [83, 138]

Trombiculidae: *Chiroptella mexicana* [66]; *Dermadelema lynnae* [232];

Euschoengastia decipiens [334]; *Euschoengastoides arizonae* [187]; *E. hoplai* [111, 181]; *E. imperfectus* [187]; *E. neotomae* [187]; *E. tanigoshii* [187]; *E. tumidus* [187]; *Hexidionis harveyi* [194]; *Hyponeocula arenicola* [181, 260]; *Leptotrombidium myotis* [270]; *Microtrombicula merrihewi* [66]; *Neotrombicula microti* [44]

NEW YORK (NY)

Trombiculidae: *Euschoengastia blarinae* [151, 297]; *E. hamiltoni* [31, 109]; *E. jamesoni* [32, 151, 272, 297]; *E. miricoxa* [32]; *E. ohioensis* [297]; *E. peromysci* [297]; *E. pipistrelli* [109]; *E. setosa* [175, 297]; *Eutrombicula alfreddugesi* [288]; *Miyatrombicula cynos* [36, 101]; *Neoschongastia* sp. [288]; *Neotrombicula harperi* [44, 94, 208, 297]; *N. microti* [297];
Trombicula subignata [44, 164, 288]

NORTH CAROLINA (NC)

Leeuwenhoekiiidae: *Hannemania dunnii* [221, 239, 284]; *H. penetrans* [27]

Trombiculidae: *Cheladonta ouachitensis* [302]; *Digenualaea carterae* [44, 109, 302]; *Euschoengastia blarinae* [109]; *E. carolinensis* [109]; *E. jamesoni* [241, 302]; *E. jonesi* [302]; *E. peromysci* [109, 170, 241, 302]; *E. rubra* [109, 302]; *E. setosa* [109, 241, 302]; *Eutrombicula alfreddugesi* [109,

145]; *E. splendens* [109]; *Leptotrombidium peromysci* [241];
Miyatrombicula jonesae [302]; *Neotrombicula cavicola* [302]; *N.*
whartoni [44, 109, 241]; *Trombicula akamushi* [109] (nr.); *T. autumnalis*
[142]; *T. farrelli* [44, 109]; *T. irritans* [95]; *Walchia* sp. [109]

NORTH DAKOTA (ND)

Trombiculidae: *Neotrombicula microti* [292]; *N. subsignata* [44, 119, 211]

NOVA SCOTIA

Trombiculidae: *Leptotrombidium myotis* [231]; *Neotrombicula bisignata* [337]; *N.*
microti [337]

OHIO (OH)

Trombiculidae: *Euschoengastia diversa* [109]; *E. ohioensis* [109]; *E. peromysci*
[109]; *E. pipistrelli* [109]; *Eutrombicula alfreddugesi* [105]; *Fonsecia*
palmella [156]; *Neotrombicula harperi* [53]; *Trombicula goodpasteri*
[44]; *T. tlalzahuatl* [214-215]

OKLAHOMA (OK)

Leeuwenhoekidae: *Albeckia senase* [244]; *Hannemania dunni* [16]; *H.*
multifemorala [183]

Trombiculidae: *Euschoengastia jonesi* [179]; *E. peromysci* [99, 109]; *E. pipistrelli*
[55, 161]; *E. trigenuala* [109]; *Euschoengastoides loomisi* [57];
Eutrombicula alfreddugesi [55]; *E. lipovskyana* [323]; *Hyponeocula*
montanensis [55, 260]; *Microtrombicula crossleyi* [181, 280]; *M.*
merrihewi [55, 66, 193]; *Neoschongastia americana* [58]; *Neotrombicula*

lipovskyi [44, 55, 164]; *N. whartoni* [164]; *Parasecia gurneyi* [182];
Speleocola tadaridae [55, 66]; *Trombicula irritans* [277]

ONTARIO (ON)

Leeuwenhoekiidae: *Leeuwenhoekia americana* [151]

Trombiculidae: *Euschoengastia blarinae* [151]; *E. hamiltoni* [340];

Leptotrombidium myotis [158, 340]; *Neotrombicula microti* [44, 164];

Parasecia gurneyi [155]

OREGON (OR)

Leeuwenhoekiidae: *Albeckia senase* [317]; *Chatia setosa* [60]; *Leeuwenhoekia americana* [60, 86, 103, 127]; *Whartonia perplexa* [317]

Trombiculidae: *Aplodontophila aplodontiae* [335]; *A. pacifica* [335];

Euschoengastia brennani [334]; *E. maseri* [329]; *E. numerosa* [87, 334];

E. oregonensis [60, 86, 98, 109, 305]; *E. peromysci* [60, 305]; *E.*

pomerantzi [60]; *E. sciuricola* [305]; *E. simulans* [60, 334]; *Eutrombicula goeldii* [52]; *Leptotrombidium myotis* [317]; *Loomisia univari* [317];

Miyatrombicula cynos [60]; *Neotrombicula brennani* [339]; *N. cavicola* [60, 86]; *N. dinehartae* [52]; *N. harperi* [86, 292]; *N. jewetti* [44]; *N.*

microti [44, 60, 292, 305]

PENNSYLVANICUS (PA)

Trombiculidae: *Euschoengastia blarinae* [109, 304]; *E. crateris* [109]; *E. diversa* [109]; *E. jamesoni* [304]; *E. magna* [109]; *E. marmotae* [109]; *E.*

michiganensis [304]; *E. ohioensis* [109, 304]; *E. peromysci* [109, 304]; *E.*

pipistrelli [109]; *E. setosa* [109, 304]; *Leptotrombidium myotis* [274, 285];

L. peromysci [304]; *Miyatrombicula esoensis* [304]; *Neotrombicula bisignata* [44]; *N. harperi* [44, 164]; *N. microti* [44, 164]; *N. richmondi* [44, 164]; *N. waynensis* [44]; *N. whartoni* [44]; *Trombicula subignata* [44]

PRINCE EDWARD ISLAND (PE)

Trombiculidae: *Neotrombicula microti* [262]

QUEBEC (QC)

Trombiculidae: *Euschoengastia setosa* [139]; *Miyatrombicula cynos* [139](nr.); *M. esoensis* [157]; *Neotrombicula harperi* [157]; *N. lipovskyi* [157]; *N. microti* [157]

SASKATCHEWAN (SK)

Trombiculidae: *Euschoengastia* sp. [50]; *Trombicula* sp. [50]

SOUTH CAROLINA (SC)

Leeuwenhoekiidae: *Leeuwenhoekia americana* [300]

Trombiculidae: *Euschoengastia blarinae* [223, 242]; *E. jamesoni* [242]; *E. peromysci* [242]; *E. pipistrelli* [242]; *Eutrombicula alfreddugesi* [78, 242]; *E. masoni* [104]; *E. splendens* [78, 242]; *Fonsecia palmella* [242]; *Microtrombicula trisetica* [223]; *Miyatrombicula cynos* [223, 242]; *Neoschongastia americana* [242, 287]; *Neotrombicula fitchi* [242]; *N. waynensis* [242]; *N. whartoni* [96, 223, 242]; *Parasecia gurneyi* [242]

SOUTH DAKOTA (SD)

Leeuwenhoekiidae: *Albeckia albecki* [88]; *Xenodontacarus plumosus* [192, 267]

Trombiculidae: *Euschoengastia criceticola* [88]; *E. fasolla* [267]; *E. pipistrelli* [88]; *E. setosa* [88, 267]; *Eutrombicula alfreddugesi* [88, 267];

Hyponeocula montanensis [88]; *Leptotrombidium myotis* [14, 159, 267-268]; *L. peromysci* [88]; *Miyatrombicula cynos* [88]; *M. esoensis* [88, 267]; *Neotrombicula harperi* [88]; *Pseudoschongastia farneri* [267]

TENNESSEE (TN)

Leeuwenhoekiiidae: *Hannemania* sp. [243]; *Leeuwenhoekia americana* [82]

Trombiculidae: *Euschoengastia jamesoni* [226]; *E. peromysci* [55, 82, 241]; *E. pipistrelli* [241]; *E. setosa* [241]; *Eutrombicula alfreddugesi* [75-76, 241]; *E. lipovskyana* [230]; *E. splendens* [81]; *Fonsecia palmella* [241]; *Leptotrombidium myotis* [224]; *L. peromysci* [81-82]; *Neotrombicula cavicola* [81, 226]

TEXAS (TX)

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [188, 191, 200, 217]; *Albeckia senase* [245]; *Comatacarus stewarti* [188]; *Hannemania bufonis* [188, 199-200]; *H. eltoni* [23, 55, 249]; *H. hylae* [163, 188, 199]; *H. mexicana* [188, 200]; *H. monticola* [206]; *H. multifemoralis* [55, 183]; *Odontacarus cayolargoensis* [85, 191]; *O. dentatus* [37, 91, 129, 191, 263]; *O. morlani* [188]; *O. pinnatus* [128]; *Sasacarus whartoni* [188, 191]; *Wagenaaria similis* [200, 295]; *Whartonia perplexa* [149, 200, 245, 295]; *Xenodontacarus plumosus* [85, 191]

Trombiculidae: *Beamerella acutascuta* [38]; *Blankaartia sinnamayri* [38]; *Cheladonta micheneri* [263]; *Chiroptella mexicana* [149]; *Dermadelema furmani* [188, 232]; *D. lynnae* [232]; *Euschoengastia chisosensis* [188]; *E. criceticola* [188]; *E. decipiens* [263]; *E. eadsi* [63, 191]; *E. numerosa*

[334]; *E. radfordi* [188]; *Euschoengastoides arizonae* [187-188, 200]; *E. bigenuala* [188]; *E. eadsi* [188]; *E. hoplai* [181, 187-188, 191]; *E. imperfectus* [187-188]; *E. loomisi* [57, 84, 188, 191, 200]; *E. neotomae* [187-188, 200]; *E. similis* [188]; *E. sleeperi* [188]; *Eutrombicula alfreddugesi* [28, 55, 84, 105, 120, 125, 188, 191, 200, 212, 217]; *E. masoni* [258]; *Fonsecia kansasensis* [188, 200]; *Hexidionis allredi* [84, 188, 200]; *H. breviseta* [188, 191, 200]; *H. harveyi* [188, 200]; *H. jessiemae* [38, 188]; *Hyponeocula arenicola* [188, 200]; *H. montanensis* [84, 188, 191, 200, 260, 263]; *Kayella bigenuala* [84, 109, 191]; *K. lacerta* [85, 188, 191]; *Leptotrombidium panamensis* [84, 188, 191, 200]; *Loomisia univari* [188]; *Microtrombicula crossleyi* [191, 280]; *M. merrihewi* [66, 200]; *M. welbourni* [198]; *Neoschoengastia americana* [58, 84, 89, 188, 191, 200, 287]; *N. brennani* [38]; *N. rebeccannae* [38]; *N. scelopori* [99]; *Neotrombicula whartoni* [191]; *Otorhinophila baccusi* [188, 199-200]; *Parasecia gurneyi* [188, 191]; *Perates monops* [200]; *Pseudoschongastia apista* [63]; *P. audyi* [85, 191]; *P. farneri* [84, 188, 191]; *P. hungerfordi* [55, 177, 188, 191]; *Speleocola tadaridae* [66, 191]; *Tecomatlana texana* [149, 191, 271, 295]; *Trombicula discors* [200]; *T. tibbettsi* [45, 191]; *T. tlalzahuatl* [90]; *T. usitata* [38]; *Walchioides whartoni* [188]; *Womersia strandtmani* [191, 286]

UTAH (UT)

Leeuwenhoekiiidae: *Acomatacarus arizonensis* [5, 39]; *Chatia setosa* [10, 39];
Comatacarus inconspicuous [240]; *Hannemania hylae* [199];

Odontacarus hirsutus [10, 39]; *O. linsdalei* [5, 10, 39, 41, 324]; *O. micheneri* [7, 10, 39]; *Shunsennia ochotona* [1, 39]; *Whartonia perplexa* [10, 39]

Trombiculidae: *Cheladonta crossi* [178]; *Dermadelema furmani* [232];
Euschoengastia cordiremus [10, 39]; *E. criceticola* [1, 10, 39]; *E. cynomyicola* [10]; *E. decipiens* [10, 39, 334]; *E. fasolla* [39]; *E. hoffmannae* [10, 39]; *E. lanei* [10, 39]; *E. lanceolata* [39]; *E. luteodema* [2, 10, 39]; *E. numerosa* [334]; *E. obesa* [10, 39]; *E. oregonensis* [10, 39]; *E. pomerantzi* [10, 39]; *E. radfordi* [10, 39, 292]; *E. rotunda* [39]; *E. sciruicola* [1, 10, 39]; *E. soricinus* [10]; *E. utahensis* [10, 39];
Euschoengastoides hoplai [10, 39]; *E. neotomae* [187]; *Hexidionis allredi* [39, 202]; *H. doremi* [10, 39, 195]; *Hyponeocula arenicola* [5, 10, 39, 181, 259, 324]; *H. montanensis* [1, 10, 39, 260]; *Kayella lacerta* [10, 39];
Leptotrombidium myotis [1, 10, 39, 274]; *L. panamensis* [10, 39];
Loomisia univari [10]; *Microtrombicula merrihewi* [66]; *Miyatrombicula esoensis* [1]; *Neoschongastia americana* [39]; *Neotrombicula californica* [1, 10, 39]; *N. harperi* [1, 10, 39]; *N. jewetti* [1]; *N. microti* [1-2, 39, 164]; *N. subsignata* [10]; *Trombicula bakeri* [10]; *T. belkini* [1, 10, 39, 135]; *T. kardosi* [39, 181]; *T. sargenti* [36]; *Walchia americana* [39]

VERMONT (VT)

Trombiculidae: *Leptotrombidium peromysci* [274]; *Neotrombicula microti* [44, 298]

VIRGINIA (VA)

Leeuwenhoekidae: *Hannemania penetrans* [99]

Trombiculidae: *Euschoengastia blarinae* [109, 218]; *Eutrombicula cinnabaris* [338]; *E. hamiltoni* [340]; *E. splendens* [65]; *Leptotrombidium myotis* [340]; *L. peromysci* [274]; *Neoschongastia americana* [287]; *Parasecia gurneyi* [104]; *Trombicula irritans* [95]

WASHINGTON (WA)

Leeuwenhoekidae: *Chatia cunninghamae* [124]

Trombiculidae: *Aplodontophila aplodontiae* [30, 335]; *Neotrombicula brennani* [339]; *N. cavicola* [292]; *N. microti* [44]

WEST VIRGINIA (WV)

Leeuwenhoekidae: *Hannemania dumni* [251]

Trombiculidae: *Euschoengastia hamiltoni* [109]; *E. jamesoni* [162]; *E. peromysci* [162, 165, 252, 319]; *E. pipistrelli* [121, 340]; *E. setosa* [165, 252]; *Leptotrombidium myotis* [121, 340]; *Neotrombicula fitchi* [165, 252]; *N. microti* [162]; *Walchia americana* [165, 252]

WISCONSIN (WI)

Trombiculidae: *Euschoengastia peromysci* [148]; *E. setosa* [148]; *Leptotrombidium myotis* [148]; *Miyatrombicula cynos* [148]; *Trombicula sargenti* [148]; *Walchia americana* [106]

WYOMING (WY)

Trombiculidae: *Neotrombicula californica* [292]; *N. harperi* [44, 164]; *N. microti* [44, 94, 164, 168]; *N. subsignata* [164]; *Trombicula browni* [44, 164]

INDEX AND SYNONYMY

Acariscus Ewing, 1943

Acomatacarus Ewing, 1942

acutascuta, Brennan 1958; *Beamerella*

aeci, Brennan 1965; *Pseudoschongastia*

aequalis, Webb and Loomis 1971; *Microtrombicula*

akamushi, (Brumpt 1910); *Trombicula*

alaskensis, Brennan and Wharton 1950; *Trombicula*

Albeckia Vercammen-Granjean and Watkins, 1966

albecki, Vercammen-Grandjean and Watkins 1966; *Albeckia*

alfreddugesi, Oudemans 1910; *Eutrombicula*

alfreddugesi, Oudemans 1910; *Trombicula* = *Eutrombicula alfreddugesi*

allredi, (Brennan and Beck 1955); *Hexidionis*

allredi, Brennan and Beck 1955; *Trombicula* = *Hexidionis allredi*

ambocalis, Wrenn and Loomis 1973; *Euschoengastia*

americanus, Ewing 1942; *Comatacarus* = *Leeuwenhoekia americana*

americana, Ewing 1938; *Euschoengastia*

americana, Ewing 1942; *Gahrlepiea* = *Walchia americana*

americana, (Ewing 1942); *Leeuwenhoekia*

americana, (Hirst 1921); *Neoschongastia*

americana, Ewing 1942; *Walchia*

angulatus, Greenberg 1952; *Acomatacarus* = *Odontacarus dentatus*

apista, Brennan and Yunker 1966; *Pseudoschongastia*

aplodontiae, (Brennan 1946); *Aplodontophila*

aplodontiae, Brennan 1946; *Trombicula* = *Aplodontophila aplodontiae*
Aplodontophila Wrenn and Maser, 1981
arenicola, (Loomis 1954); *Hyponeocula*
arenicola, Loomis 1954; *Trombicula* = *Hyponeocula arenicola*
arizonae, Loomis 1971; *Euschoengastoides*
arizonensis, Ewing 1942; *Acomatacarus*
arizonensis, (Ewing 1942); *Odontacarus* = *Acomatacarus arizonensis*
audyi, Brennan and Jones 1959; *Pseudoschoengastia*
autumnalis, Shaw 1790; *Trombicula*
baccusi, Loomis and Wrenn 1973; *Otorhinophila*
bakeri, Ewing 1946; *Trombicula*
batatas, (Linneaus 1913); *Eutrombicula*
batatas, (Linneaus 1913); *Trombicula* = *Eutrombicula batatas*
Beamerella Brennan, 1958
belkini, (Gould 1950); *Eutrombicula* = *Trombicula belkini*
belkini, Gould 1950; *Trombicula*
Bernia = *Hyponeocula*
bigenuala, Farrell 1956; *Euschoengastia* = *Kayella bigenuala*
bigenuala, (Farrell 1956); *Euschoengastoides* = *Kayella bigenuala*
bigenuala, (Farrell 1956); *Kayella*
bisignata, (Ewing 1929); *Neotrombicula*
bisignata, Ewing 1929; *Trombicula* = *Neotrombicula bisignata*
Blankaartia Oudemans, 1911

blarinae, (Ewing 1931); *Euschoengastia*

blarinae, Ewing 1931; *Trombicula* = *Euschoengastia blarinae*

brennani, Wrenn and Loomis 1974; *Euschoengastia*

brennani, Crossley and Loomis 1955; *Neoschoengastia*

brennani, (Gould 1956); *Neotrombicula*

brennani, Gould 1956; *Trombicula* = *Neotrombicula brennani*

brevicalcar, Brennan and Jones 1954; *Acomatacarus* = *Xenodontacarus brevicalcar*

brevicalcar, (Brennan and Jones 1954); *Xenodontacarus*

brevipes, Ewing 1931; *Ascoshongastia* = *Euschoengastia peromysci*

brevipes, Ewing 1931; *Neoschongastia* = *Euschoengastia peromysci*

breviseti, (Loomis and Crossley 1963); *Hexidionis*

breviseti, Loomis and Crossley 1963; *Trombicula* = *Hexidionis breviseti*

browni, Brennan and Wharton 1950; *Trombicula*

bufonis, Loomis and Welbourn 1969; *Hannemania*

californica, (Ewing 1925); *Euschoengastia* = *Euschoengastia ambocalis*

californica, (Ewing 1942); *Neotrombicula*

californica, Ewing 1925; *Schongastia* = *Euschoengastia ambocalis*

californica, Ewing 1942; *Trombicula* = *Neotrombicula californica*

campi, Brown and Brennan 1952; *Euschoengastia*

carolinensis, Farrell 1956; *Euschoengastia*

carpenteri, (Brennan 1962); *Whartonia*

carterae, (Brennan and Wharton 1950); *Digenualaea*

carterae, (Brennan and Wharton 1950); *Neotrombicula* = *Digenualaea carterae*

carterae, Brennan and Wharton 1950; *Trombicula* = *Digenualaea carterae*
cavicola, (Ewing 1931); *Neotrombicula*
cavicola, Ewing 1931; *Trombicula* = *Neotrombicula cavicola*
cayolargoensis, Brennan 1959; *Odontacarus*
Chatia Brennan, 1946
Cheladonta Lipovsky, Crossley, and Loomis, 1955
chiapanensis, Hoffmann 1948; *Acomatacarus* = *Odontacarus chiapanensis*
chiapanensis, (Hoffmann 1948); *Odontacarus*
chiricahuae, Bennett and Loomis 1981; *Eutrombicula*
Chiroptella Vercammen-Grandjean, 1960
chisosensis, Loomis, Baccus, and Wrenn 1972; *Euschoengastia*
cinnabaris, (Ewing 1920); *Eutrombicula*
cinnabaris, Ewing 1920; *Trombicula* = *Eutrombicula cinnabaris*
citellicola, Gould 1956; *Euschoengastia*
Comatacarus Ewing, 1942
cordiremus, Brennan 1948; *Euschoengastia*
crateris, Farrell 1956; *Euschoengastia*
crivicola, Brennan 1948; *Euschoengastia*
crossleyi, (Loomis 1954); *Microtrombicula*
crossleyi, Loomis 1954; *Trombicula* = *Microtrombicula crossleyi*
crossi, Lipovsky, Crossley, and Loomis 1955; *Cheladonta*
cunninghamae, Goff and Loomis 1980; *Chatia*
cynomyicola, Crossley and Lipovsky 1954; *Euschoengastia*

cynos, (Ewing 1937); *Miyatrombicula*
cynos, Ewing 1937; *Trombicula* = *Miyatrombicula cynos*
decipiens, Gould 1956; *Euschoengastia*
dentata, Ewing 1925; *Trombicula* = *Odontacarus dentatus*
dentatus, (Ewing, 1925); *Odontacarus*
deserti, Loomis and Lucas 1970; *Hexidionis*
desertorum, Loomis and Wrenn 1973; *Otorhinophila*
Digenualaea Vercammen-Granjean, 1960
dinehartae, (Brennan and Wharton 1950); *Neotrombicula*
dinehartae, Brennan and Wharton 1950; *Trombicula* = *Neotrombicula dinehartae*
discors, Brennan and Jones 1960; *Trombicula*
diversa, Farrell 1956; *Euschoengastia* = *Euschoengastia diversa*
diversa, Loomis 1956; *Euschoengastia*
dolosa, Gould 1956; *Leeuwenhoekia*
doremi, Brennan and Beck, 1955; *Hexidionis*
doremi, Brennan and Beck, 1955; *Trombicula* = *Hexidionis doremi*
dunni, Sambon 1928; *Hannemania*
Durmadelema Pomeroy and Loomis, 1984
eadsi, Loomis and Crossley 1963; *Euschoengastia*
eadsi, (Loomis and Crossley 1963); *Euschoengastoides*
eltoni, Sambon 1928; *Hannemania*
enemi, Brennan and Jones 1954; *Euschoengastia*
eptesici, Brennan 1947; *Trombicula*

esoensis, (Sasa and Ogata 1953); *Miyatrombicula*
Euschoengastia Ewing, 1938
Euschoengastoides Loomis, 1954
eusignata, Brennan and Wharton 1950; *Trombicula*
Eutrombicula Ewing, 1938
farneri, Lipovsky 1951; *Pseudoschongastia*
Farrelioides Vercammen-Grandjean, 1960
farrelli, Brennan and Wharton 1950; *Trombicula*
fassola, Brennan and Beck 1955; *Euschoengastia*
finleyi, Crossley 1955; *Euschoengastia*
finleyi, Kardos 1954; *Trombicula*
fitchi, (Loomis 1954); *Neotrombicula*
fitchi, Loomis 1954; *Trombicula* = *Neotrombicula fitchi*
flagellisetula, Brennan and White 1960; *Perissopalla*
floridensis, Mertins, Hanson, and Corn 2009; *Whartonacarus*
Fonsecia Radford, 1942
fovea, Tanigoshi and Loomis 1974; *Hyponeocula*
frondifera, Gould 1956; *Euschoengastia*
fullbergae, Brennan 1948; *Neoshongastia*
furmani, (Gould 1956); *Dermadelema*
furmani, Gould 1956; *Euschoengastia* = *Dermadelema furmani*
furmani, Gould 1956; *Euschoengastoides* = *Dermadelema furmani*
galli, Ewing 1946; *Acomatacarus* = *Odontacarus dentatus*

galli, (Ewing 1946); *Odontacarus* = *Odontacarus dentatus*
glenni, Vercammen-Grandjean, Watkins and Beck 1965; *Whartonia*
goeldii, (Oudemans 1910); *Eutrombicula*
goodpasteri, Brennan and Wharton 1950; *Trombicula*
guntheri, (Radford 1942); *Euschoengastia*
guntheri, Radford 1942; *Neoschongastia* = *Euschoengastia guntheri*
gurneyi, (Ewing 1937); *Acariscus* = *Parasecia gurneyi*
gurneyi, (Ewing 1937); *Fonsecia* = *Parasecia gurneyi*
gurneyi, (Ewing 1937); *Parasecia*
gurneyi, Ewing 1937; *Trombicula* = *Parasecia gurneyi*
hamiltoni, Brennan 1947; *Euschoengastia*
Hannemania Oudemans, 1911
hardyorum, Wrenn and Somerby 1974; *Euschoengastia*
harperi, (Ewing 1928); *Eutrombicula* = *Netrombicula harperi*
harperi, (Ewing 1928); *Neotrombicula*
harperi, Ewing 1928; *Trombicula* = *Neotrombicula harperi*
harveyi, Loomis and Lucas 1969; *Hexidionis*
hegneri, Hyland 1956; *Hannemania*
heteromyicola, Wrenn and Loomis 1974; *Euschoengastia*
Hexidionis Vercammen-Grandjean and Loomis, 1967
hirsutus, (Ewing 1931); *Acomatacarus* = *Odontacarus hirsutus*
hirsutus, Ewing 1931; *Hannemania* = *Odontacarus hirsutus*
hirsutus, (Ewing 1931); *Odontacarus*

hoffmannae, Gould 1956, *Euschoengastia*

hominis, (Ewing 1933); *Acariscus*

hoplai, (Loomis 1954); *Euschoengastia* = *Euschoengastoides hoplai*

hoplai, (Loomis 1954); *Euschoengastoides*

hoplai, Loomis 1954; *Trombicula* = *Euschoengastoides hoplai*

hungerfordi, Lipovsky 1951; *Pseudoschongastia*

hylae, (Ewing, 1925); *Hannemania*

hylae, Ewing 1925; *Trombicula* = *Hannemania hylae*

Hyponeocula Vercammen-Grandjean, 1960

imitator, Tanigoshi and Loomis 1974; *Hyponeocula*

imperfecta, Brennan and Jones 1954; *Trombicula* = *Euschoengastoides imperfectus*

imperfectus, (Brennan and Jones 1954); *Euschoengastoides*

inconspicuous, Reed 1973; *Comatacarus*

irritans, Riley 1873; *Trombicula*

jamesoni, (Brennan 1948); *Euschoengastia*

jamesoni, (Brennan 1948); *Farrelioides* = *Euschoengastia jamesoni*

jamesoni, Brennan 1948; *Trombicula* = *Euschoengastia jamesoni*

jessiamae, (Gould 1956); *Hexidionis*

jessiamae, Gould 1956; *Trombicula* = *Hexidionis jessiamae*

jewetti, Brennan and Wharton 1950; *Neotrombicula*

jewetti, Brennan and Wharton 1950; *Trombicula* = *Neotrombicula jewetti*

jonesae, (Brennan 1952); *Miyatrombicula*

jonesae, Brennan 1952; *Trombicula* = *Miyatrombicula jonesae*

jonesi, Lipovsky and Loomis 1954; *Euschoengastia*
kansasensis, (Loomis 1955); *Fonsecia*
kansasensis, Loomis 1955; *Trombicula* = *Fonsecia kansasensis*
kardosi, Loomis 1954; *Trombicula*
Kayella Vercammen-Grandjean, 1960
kohlsi, Brennan 1951; *Neoshongastia* = *N. paenitens*
kromani, Goff and Loomis 1973; *Odontacarus*
lacerta, Brennan 1948, *Euschoengastia* = *Kayella lacerta*
lacerta, (Brennan 1948); *Kayella*
lacerticola, (Loomis 1964); *Hexidionis*
lacerticola, Loomis 1964; *Trombicula* = *Hexidionis lacerticola*
lanceolata, Brennan and Beck 1955; *Euschoengastia*
lanei, Brennan and Beck 1955; *Euschoengastia*
latchmani, Brennan and Yunker 1964; *Euschoengastia*
Leeuwenhoekia Oudemans, 1911
Leeuwenhoekidae Womersley, 1945
Leptotrombidium Nagayo et al., 1916
Leptotrombidium species "a," Wrenn 1974 = *Leptotrombidium peromysci*
linsdalei, Brennan and Jones 1954; *Acomatacarus* = *Odontacarus linsdalei*
linsdalei, (Brennan and Jones 1954); *Odontacarus*
lipovskyana, (Wolfenbarger 1952); *Eutrombicula*
lipovskyana, Wolfenbarger 1952; *Trombicula* = *Eutrombicula lipovskyana*
lipovskyi, (Brennan and Wharton 1950); *Neotrombicula*

lipovskyi, Brennan and Wharton 1950; *Trombicula* = *Neotrombicula lipovskyi*
longitarsala, Powder & Loomis 1962; *Euschoengastia* = *Euschoengastoides longitarsala*
longitarsala, (Powder and Loomis 1962); *Euschoengastoides*
loomisi, Crossley and Lipovsky 1954; *Euschoengastia* = *Euschoengastoides loomisi*
loomisi, (Crossley and Lipovsky 1954); *Euschoengastoides*
loomisi, Kardos 1954; *Trombicula*
Loomisia Brennan and Reed, 1972
luciae, Tanigoshi and Loomis 1974; *Hyponeocula*
luteodema, Brennan 1948; *Euschoengastia*
lynnae, Pomeroy and Loomis 1984; *Dermadelema*
magna, Farrell 1956; *Euschoengastia*
marginalis, Wrenn and Somerby 1974; *Euschoengastia*
marita Allred and Beck 1966, *Bernia* = *Hyponeocula arenicola*
marmotae, Farrell 1956; *Euschoengastia*
maseri, Wrenn 1983; *Euschoengastia*
masoni, Ewing 1943; *Acariscus* = *Eutrombicula masoni*
masoni, (Ewing 1943); *Eutrombicula*
merrihewi, (Loomis and Lipovsky 1954); *Microtrombicula*
merrihewi, Loomis and Lipovsky 1954; *Trombicula* = *Microtrombicula merrihewi*
mexicana, (Ewing 1937); *Chiroptella*
mexicana, Hoffmann 1965; *Hannemania*
mexicana, Ewing 1937; *Trombicula* = *Chiroptella mexicana*
mexicanum, (Ewing 1937); *Leptotrombidium* = *Chiroptella mexicana*

micheneri, Lipovsky, Crossley, and Loomis 1955; *Cheladonta*
micheneri, Greenberg 1952; *Acomatacarus* = *Odontacarus micheneri*
micheneri, Gould 1956; *Euschoengastia*
micheneri, (Greenberg 1952); *Odontacarus*
michiganensis, Wrenn 1974; *Euschoengastia*
microti, (Ewing 1928); *Neotrombicula*
microti, Ewing 1928; *Trombicula* = *Neotrombicula microti*
Microtrombicula Ewing, 1950
migratoria, Nadchatram and Wilson 1969; *Mackiena*
miricoxa, Brennan 1948; *Euschoengastia*
Miyatrombicula Sasa et al., 1952
mojavense, Pomeroy and Loomis 1984; *Dermadelema*
monops, (Brennan and Jones 1960); *Perates*
monops, Brennan and Jones 1960; *Trombicula* = *Perates monops*
montanensis, (Brennan 1946); *Hyponeocula*
montanensis, Brennan 1946; *Trombicula* = *Hyponeocula montanensis*
monticola, Welbourn and Loomis 1970; *Hannemania*
morlani, Brennan 1959; *Odontacarus*
multifemorala, Loomis 1956; *Hannemania*
multisetosa, Ewing 1943; *Acariscus* = *Eutrombicula multisetosa*
multisetosa, (Ewing 1943); *Eutrombicula*
myotis, (Ewing 1929); *Acariscus* = *Leptotrombidium myotis*
myotis, (Ewing 1929); *Leptotrombidium*

myotis, Ewing 1929; *Trombicula* = *Leptotrombidium myotis*
nasalis, Loomis 1963; *Microtrombicula*
Neoshoengastia Ewing, 1929
neotomae, Loomis 1971; *Euschoengastoides*
Neotrombicula Hirst, 1925
nihii, Brennan and Jones 1954; *Euschoengastia*
numerosa, Wrenn and Loomis 1974; *Euschoengastia*
obesa, Brennan and Beck 1955; *Euschoengastia*
obscura, Wrenn and Loomis 1974; *Euschoengastia*
occidentalis, Ewing 1942; *Comatacarus* = *Odontacarus hirsutus*
occidentalis, Brennan 1952; *Pseudoschongastia*
ochotona, (Radford 1942); *Chatia* = *Shunsennia ochotona*
ochotona, (Radford 1942); *Shunsennia*
ochotona, Radford 1942; *Hannemania* = *Shunsennia ochotona*
Odontacarus Ewing, 1929
ohioensis, Farrell 1956; *Euschoengastia*
oregonensis, (Ewing 1929); *Euschoengastia*
oregonensis, Ewing 1929; *Trombicula* = *Euschoengastia oregonensis*
ornata, Loomis and Lipovsky 1954; *Trombicula*
otophila, Loomis and Bunnell 1962; *Euschoengastia*
Otorhinophila Wrenn and Loomis, 1967
ouachitensis, Lipovsky, Crossley, and Loomis 1955; *Cheladonta*
pacifica, Wrenn and Maser 1981; *Aplodontophila*

paenitens, Brennan 1952; *Neoschongastia*
palmella, Brennan and Loomis 1959; *Fonsecia*
panamensis, (Ewing 1925); *Leptotrombidium*
panamensis, Ewing 1925; *Trombicula* = *Leptotrombidium panamensis*
Parasecia Loomis, 1966
parkeri, Radford 1942; *Trombicula*
parvisola, Wrenn and Loomis 1967; *Otorhinophila*
pauli, Crossley and Atyeo 1972; *Blankaartia*
penetrans, Ewing 1931; *Hannemania*
Perates Brennan and Dalmat, 1960
Perissopalla Brennan and White, 1960
peromysci, (Ewing 1929); *Euschoengastia*
peromysci, Vercammen-Grandjean and Langston 1975; *Leptotrombidium*
peromysci, Ewing 1929; *Schongastia* = *Euschongastia peromysci*
perplexa, Brennan 1947; *Hannemania* = *Whartonia perplexa*
perplexa, (Brennan 1947); *Whartonia*
pinnatus, Goff and Loomis 1977; *Odontacarus*
pipistrelli, Brennan 1947; *Euschoengastia*
plumosus, Greenberg 1951; *Acomatacarus* = *Xenodontacarus plumosus*
plumosus, (Greenberg 1951); *Odontacarus* = *Xenodontacarus plumosus*
plumosus, (Greenberg 1951); *Xenodontacarus*
polychaetus, Greenberg 1952; *Acomatacarus*
pomerantzi, Brennan and Jones 1954; *Euschoengastia*

potosina, (Hoffman 1950); *Leptotrombidium* = *Leptotrombidium panamensis*
potosina, Hoffman 1950; *Trombicula* = *Leptotrombidium panamensis*
pseudoautumnalis, Gould 1956; *Trombicula*
Pseudoschongastia Lipovsky, 1951
puerilis, Gould 1956; *Euschoengastia*
pusillus, Goff and Loomis 1974; *Comatacarus*
radfordi, Brennan and Jones 1954; *Euschoengastia*
rebeccannae, Brennan 1965; *Neoschoengastia*
reesi, Allred 1957; *Trombicula* = *Miyatrombicula esoensis* Sasa and Ogata 1953
richmondi, (Brennan Wharton 1950); *Neotrombicula*
richmondi, Brennan and Wharton 1950; *Trombicula* = *Neotrombicula richmondi*
rohweri, Ewing 1942; *Trombicula*
romola, Brennan and Jones 1954; *Euschoengastia*
rotunda, Brennan and Beck 1955; *Euschoengastia*
rubra, Farrell 1956; *Euschoengastia*
samboni, (Radford 1942); *Euschoengastia*
samboni, Radford 1942; *Neoschongastia* = *Euschoengastia samboni*
sandovali, Hoffmann 1947; *Tecomatlana*
sargenti, Brennan 1952; *Trombicula*
Sasacarus Brennan and Jones, 1959
Sasacarus sp. "w", Goates 1963 = *Sasacarus whartoni*
sauricola, Tanigoshi and Loomis 1974; *Hyponeocula*
scelopori, Ewing 1931; *Neoschongastia*

Schongastia Oudemans, 1910

sciuricola, (Ewing 1925); *Euschoengastia*

sciuricola, Ewing 1925; *Schongastia* = *Euschoengastia sciuricola*

scottae, (Brennan 1952); *Miyatrombicula*

scottae, Brennan 1952; *Trombicula* = *Miyatrombicula scottae*

senase, Greenberg 1952; *Acomatacarus* = *Albeckia senase*

senase, (Greenberg 1952); *Albeckia*

senase, (Greenberg 1952); *Whartonia* = *Albeckia senase*

setosa, Brennan 1946; *Chatia*

setosa, (Ewing 1937); *Euschoengastia*

setosa, Ewing 1937; *Trombicula* = *Euschoengastia setosa*

sexacis, Allred and Beck 1953; *Acomatacarus* = *Odontacarus micheneri*

shawi, Brennan 1959; *Odontacarus*

Shunsennia Jameson and Toshioka, 1953

signator, Ewing 1931; *Neoschongastia* = *Euschoengastia peromysci*

similis, Loomis, Baccus, and Wrenn 1972; *Euschoengastoides*

similis, Brennan 1967; *Wagenaaria*

simplex, Ewing 1938; *Hemitrombicula*

simulans, Wrenn and Loomis 1974; *Euschoengastia*

sinnamayri, (Floch and Fauran 1956); *Blankaartia*

sinnamayri, Floch and Fauran 1956; *Tragardhula* = *Blankaartia sinnamayri*

sleeperi, Pomeroy and Loomis 1984; *Dermadelema*

sleeperi, Loomis, Baccus and Wrenn 1972; *Euschoengastoides*

sloomi, Brennan 1965; *Euschoengastoides* = *Dermadelema furmani*
sola, (Gould 1956); *Otorhinophila*
sola, Gould 1956; *Trombicula* = *Otorhinophila sola*
soricinus, Gould 1956, *Euschoengastia*
Speleocola Lipovsky, 1942
splendens, (Ewing 1913); *Euschoengastia* = *Eutrombicula splendens*
splendens, (Ewing 1913); *Eutrombicula*
splendens, Ewing 1913; *Trombicula* = *Eutrombicula splendens*
sprocssi, (Brennan 1965); *Loomisia*
sprocssi, Brennan 1965; *Trombicula* = *Loomisia sprocssi*
staffordi, Brennan and White 1960; *Euschoengastia*
stewarti, (Gould 1956); *Comatacarus*
stewarti, Gould 1956; *Leeuwenhoekia* = *Comatacarus stewarti*
strandtmani, Wharton 1947; *Womersia*
subsignata, (Brennan and Wharton 1950); *Neotrombicula*
subsignata, Brennan and Wharton 1950; *Trombicula* = *Neotrombicula subsignata*
superciliaris, Loomis and Megens 1975; *Neotrombicula*
sylvilagi, (Brennan and Wharton 1950); *Neotrombicula*
sylvilagi, Brennan and Wharton 1950; *Trombicula* = *Neotrombicula sylvilagi*
tadaridae, Lipovsky 1952; *Speleocola*
tanigoshii, Loomis 1971; *Euschoengastoides*
Tecomatlana Hoffman, 1947
terrestris, Gould 1956; *Euschoengastia* = *Dermadelema furmani*

texana, (Loomis and Crossley 1963); *Tecomatlana*

texana, Loomis and Crossley 1963; *Trombicula* = *Tecomatlana texana*

tibbettsi, Brennan and White 1960; *Trombicula*

tlalzahuatl, (Murray 1877); *Trombicula*

Tragardhula Berlese, 1912

trigenuala, Farrell 1956; *Eushoengastia* = *Eushoengastia trigenuala* Loomis 1956

trigenuala, Loomis 1956; *Eushoengastia*

trisetica, (Loomis and Crossley 1953); *Microtrombicula*

trisetica, Loomis and Crossley 1953; *Trombicula* = *Microtrombicula trisetica*

Trombicula Berlese, 1905

Trombiculidae Ewing, 1944

tropica, (Ewing 1925); *Eutrombicula*

tumidus, Loomis 1971; *Euschoengastoides*

twentei, Loomis 1954; *Trombicula*

univari, (Brennan 1965); *Loomisia*

univari, Brennan 1965; *Trombicula* = *Loomisia univari*

usitata, Brennan 1965; *Trombicula*

utahensis, Brennan and Beck 1955, *Eushoengastia*

varians, Brennan and Wharton 1950; *Trombicula*

veanda, Brennan 1965; *Trombicula*

velata, Brennan and Yunker 1966; *Euschoengastia*

villosus, Goff and Loomis 1973; *Odontacarus*

Walchia Ewing, 1931

Walchioides Vercammen-Grandjean, 1960
watkinsi, Vercammen-Grandjean 1967; *Tecomatlana*
waynensis, Brennan and Wharton 1950; *Trombicula* = *Neotrombicula waynensis*
waynensis, (Brennan and Wharton 1950); *Neotrombicula*
webbi, Loomis 1971; *Euschoengastoides*
welbourni, Loomis and Webb 1971; *Microtrombicula*
Whartonacarus Vercammen-Grandjean 1960
Whartonia Ewing, 1944
whartoni, Greenberg 1952; *Acomatacarus*
whartoni, (Ewing 1929); *Neotrombicula*
whartoni, Brennan 1960; *Pseudoschongastia* = *Walchioides whartoni*
whartoni, (Hoffmann 1951); *Sasacarus*
whartoni, Ewing 1929; *Trombicula* = *Neotrombicula whartoni*
whartoni, (Brennan 1960); *Walchioides*
whartoni, Hoffmann 1951; *Whartonia* = *Sasacarus whartoni*
whitakeri, Wrenn 1984; *Euschoengastia*
Womersia Wharton, 1947
wrenni, Loomis 1956; *Microtrombicula*
xerophila, Loomis and Wrenn 1973; *Otorhinophila*
zapi, *Neotrombicula* –Never officially described

ADDENDUM

We would appreciate receiving citations for published or future papers not included in this article that contain pertinent information on the chiggers of North American vertebrates. Such information will be added periodically in this space.

LITERATURE CITED

1. Allred, D.M. 1957. Mites found on mice of the genus *Peromyscus* in Utah. V. *Trombiculidae* and miscellaneous families. *The Great Basin Naturalist*, 17(3-4): 95-102.
2. Allred, D.M. 1961. Parasitic mites on marmots in Utah. *Journal of Parasitology*, 47: 124.
3. Allred, D.M. 1962. Mites on grasshopper mice at the Nevada Atomic Test Site. *The Great Basin Naturalist*, 22(4): 101-104.
4. Allred, D.M. 1963. Mites from pocket mice at the Nevada Test Site. *Proceedings of the Entomological Society of Washington*, 65(3): 231-233.
5. Allred, D.M. 1966. Unusual records of Utah mites. *The Great Basin Naturalist*, 26(1-2): 34.
6. Allred, D.M. 1970. Mites and lice of the National Reactor Testing Station. *Brigham Young University Science Bulletin: Biological Series*, 12(1): 1-17.
7. Allred, D.M. and D.E. Beck. 1953. A new species of *Acomatacarus* (Acarina, Trombiculidae) from Utah. *The Great Basin Naturalist*, 13(3-4): 87-90.
8. Allred, D.M. and D.E. Beck. 1962. Ecological distribution of mites on lizards at the Nevada Test Site. *Herpetologica*, 18(1): 47-51.
9. Allred, D.M. and D.E. Beck. 1964. Briefer articles mites on reptiles at the Nevada Test Site. *Transactions of the American Microscopical Society*, 83(2): 266-268.
10. Allred, D.M. and D.E. Beck. 1966. Mites of Utah mammals. *Brigham Young University Science Bulletin: Biological Series*, 8(1): 1-122.
11. Allred, D.M., D.E. Beck, and C.D. Jorgensen. 1965. A summary of the ecological effects of nuclear testing on native animals at the Nevada Test Site. *Proceedings of the Utah Academy of Science*, 42: 252-260.
12. Allred, D.M. and M.A. Goates. 1964. Mites from mammals at the Nevada Test Site. *The Great Basin Naturalist*, 24(2): 71-73.
13. Allred, D.M. and M.A. Goates. 1964. Mites from wood rats at the Nevada Nuclear Test Site. *Journal of Parasitology*, 50: 171.
14. Anderson, K.W. and J.K. Jones, Jr. 1971. Mammals of northwestern South Dakota. *University of Kansas Publications Museum of Natural History*, 19(5): 361-393.
15. Annereaux, R.F., A.C. Emminger, and C.B. Bills. 1963. Infestation of horses with chigger mites: chiggers alien to horses cause severe dermatitis. *Bulletin of the California Department of Agriculture*, 52: 163-165.
16. Anthony, C.D., J.R. Mendelson, III, and R.R. Simmons. 1994. Differential parasitism by sex on Plethodontid salamanders and histological evidence for structural damage to the nasolabial groove. *The American Midland Naturalist*, 132(2): 302-307.
17. Babero, B.B. and F.R. Kay. 1967. Parasites of horned toads (*Phrynosoma* spp.), with records from Nevada. *Journal of Parasitology*, 53(1): 168-175.

18. Basolo, F., Jr. and R.C. Funk. 1974. Ectoparasites from *Microtus ochrogaster*, *Peromyscus leucopus*, and *Cryptotis parva* in Coles County, Illinois. Transactions of the Illinois Academy of Science, 67(2): 211-221.
19. Bauer, C.A. and J.O. Whitaker, Jr. 1981. Ectoparasites of muskrats from Indiana with special emphasis on spatial distribution of coexisting mites of the genus *Listrophorus*. The American Midland Naturalist, 105(1): 112-123.
20. Bennett, S.G. 1987. Medically important and other ectoparasitic acarines on vertebrates from Santa Catalina Island, California. Bulletin of the Society of Vector Ecology, 12(2): 534-538.
21. Bennett, S.G. and R.B. Loomis. 1980. The tropical pest chigger, *Eutrombicula batatas* (Acarina: Trombiculidae) in Arizona and California, USA. Journal of Medical Entomology, 17: 286.
22. Bennett, S.G. and R.B. Loomis. 1981. A new species of *Eutrombicula* (Acari: Trombiculidae) from the Chiricahua Mountains, southeastern Arizona. International Journal of Acarology, 7: 105-108.
23. Block, E.F. 1968. Parasites of the cricket frog, *Acris crepitans*. M.S. Thesis, North Texas State University.
24. Bostic, D.L. 1965. Parasites of the teiid lizard, *Cnemidophorus hyperythrus beldingi*. The Southwestern Naturalist, 10: 313.
25. Boyd, E.M. and A.E. Fry. 1971. Metazoan parasites of the Eastern Belted Kingfisher, *Megaceryle alcyon alcyon*. Journal of Parasitology, 57(1): 150-156.
26. Bradshaw, G.V.R. and A. Ross. 1961. Ectoparasites of Arizona bats. Journal of the Arizona Academy of Science, 1(4): 109-112.
27. Brandt, B.B. 1936. Parasites of certain North Carolina Saliencia. Ecological Monographs, 6(4): 491-532.
28. Brennan, J.M. 1945. Field investigations pertinent to Bullis Fever: Preliminary report on the speices of ticks and vertebrates occurring at Camp Bullis, Texas. Texas Report of Biological Medicine, 1: 112-121.
29. Brennan, J.M. 1946. A new genus and species of chigger, *Chatia setosa* (Trombiculidae, Acarina) from northwestern United States. Journal of Parasitology, 32(2): 132-135.
30. Brennan, J.M. 1946. Two new species of *Trombicula*: *T. montanensis* and *T. aplodontiae* (Acarina, Trombiculidae) from northwestern United States. Journal of Parasitology, 32(5): 441-444.
31. Brennan, J.M. 1947. New species of chiggers (Acarina, Trombiculidae) from bats of the Nearctic region. Journal of Parasitology, 33(245-252).
32. Brennan, J.M. 1948. New North American chiggers (Acarina, Trombiculidae). Journal of Parasitology, 34: 465-478.
33. Brennan, J.M. 1949. Tracheation in chiggers with special reference to *Acomatacarus arizonensis* Ewing (Acarina, Trombiculidae). Journal of Parasitology, 35: 467-471.
34. Brennan, J.M. 1951. Two new species of *Neoshongastia* with a key to the species of the world (Acarina: Trombiculidae). Journal of Parasitology, 37: 577-582.

35. Brennan, J.M. 1952. The genus *Pseudoschongastia* Lipovsky, 1951 with the description of two new species and a key to the world species, also *Neoschongastia paenitens*, new name for *Neoschongastia kohlsi* Brennan, 1951, preoccupied (Acarina, Trombiculidae). Proceedings of the Entomological Society of Washington, 54(3): 133-137.
36. Brennan, J.M. 1952. *Trombicula cynos* Ewing, 1937, and three related new species (Acarina: Trombiculidae). The Wasmann Journal of Biology, 10(1): 55-65.
37. Brennan, J.M. 1959. Synonymy of *Odontacarus* Ewing, 1929, and *Acomatacarus* Ewing, 1942, with redescriptions of *O. dentatus* (Ewing) and *O. australis* (Ewing), also descriptions of three new species from southern United States (Acarina: Trombiculidae). Annals of the Entomological Society of America, 52(1): 1-6.
38. Brennan, J.M. 1965. Five new chiggers from southwestern United States (Acarina: Trombiculidae). Journal of Parasitology, 51(1): 108-113.
39. Brennan, J.M. and D.E. Beck. 1955. The chiggers of Utah (Acarina: Trombiculidae). The Great Basin Naturalist, 15: 1-26.
40. Brennan, J.M. and M.L. Goff. 1977. Keys to the genera of chiggers of the western hemisphere (Acarina: Trombiculidae). Journal of Parasitology, 63(3): 554-566.
41. Brennan, J.M. and E.K. Jones. 1954. A report on the chiggers (Acarina: Trombiculidae) of the Frances Simes Hastings Natural History Reservation, Monterey County, California. The Wasmann Journal of Biology, 12(2): 155-194.
42. Brennan, J.M. and E.K. Jones. 1959. Keys to the chiggers of North America with synonymic notes and descriptions of two new genera (Acarina: Trombiculidae). Annals of the Entomological Society of America, 52: 7-16.
43. Brennan, J.M. and R.B. Loomis. 1959. A review of the reptile chiggers, genus *Fonsecia* (Acarina: Trombiculidae), with descriptions of two new American species. Journal of Parasitology, 45: 53-64.
44. Brennan, J.M. and G.W. Wharton. 1950. Studies on North American chiggers. No. 3 The subgenus *Neotrombicula*. The American Midland Naturalist, 44(1): 153-193.
45. Brennan, J.M. and J.S. White. 1960. New records and descriptions of chiggers (Acarina: Trombiculidae) on bats in Alabama. Journal of Parasitology, 46: 346-350.
46. Brennan, J.M. and C.E. Yunker. 1964. A new species of *Euschoengastia* of potential veterinary importance (Acarina: Trombiculidae). Journal of Parasitology, 50(2): 311-312.
47. Brennan, J.M. and C.E. Yunker. 1966. Endoparasitic chiggers: III. *Euschoengastia velata*, n. sp. (Acarina), an intradermal parasite of boreal rodents in Montana. Journal of Medical Entomology, 3(3-4): 338-339.
48. Brown, J.H. and J.M. Brennan. 1952. A note on the chiggers (Trombiculidae) of Alberta. Canadian Journal of Zoology, 30: 338-343.
49. Buckner, R.L. and L.N. Gleason. 1974. Arthropod ectoparasites and their seasonal occurrences on *Microtus ochrogaster* and *Peromyscus leucopus* from Warren County, Kentucky. Transactions of the Kentucky Academy of Science, 35(3-4): 70-75.

50. Burgess, G.D. 1955. Arthropod ectoparasites of Richardson's ground squirrel. *Journal of Parasitology*, 41: 639-640.
51. Clark, G.M. and V.D. Stotts. 1960. Skin lesions on black ducks and mallards caused by chigger (*Womersia strandtmani* Wharton 1947). *Journal of Wildlife Management*, 24(1): 106-108.
52. Clifford, C.M., C.E. Yunker, E.R. Easton, and J.E. Keirans. 1970. Ectoparasites and other arthropods from coastal Oregon. *Journal of Medical Entomology*, 7: 438-445.
53. Cooper, C.L. and J.L. Crites. 1975. Arthropod parasites of passerine birds from South Bass Island, Ohio. *Journal of Medical Entomology*, 12: 483.
54. Crossley, D.A., Jr. 1955. A new species of chigger mite from Colorado (Acarina, Trombiculidae). *Journal of Parasitology*, 41: 289-291.
55. Crossley, D.A., Jr. 1960. Comparative external morphology and taxonomy of nymphs of the Trombiculidae (Acarina). *The University of Kansas Science Bulletin*, 40: 135-321.
56. Crossley, D.A., Jr. and W.T. Atyeo. 1972. A new species of chigger, *Blankaartia pauli* (Acarina: Trombiculidae), from the southeastern United States. *Journal of Medical Entomology*, 9: 253-254.
57. Crossley, D.A., Jr. and L.J. Lipovsky. 1954. Two new chiggers from the central states (Acarina: Trombiculidae). *Proceedings of the Entomological Society of Washington*, 56(5): 240-246.
58. Crossley, D.A., Jr. and R.B. Loomis. 1955. A new *Neoschongastia* (Acarina: Trombiculidae) from western Kansas and eastern Colorado. *Entomological News*, 66(5): 113-118.
59. Crossley, D.A., Jr. and C.W. Proctor, Jr. 1971. New records of chigger species (Acarina: Trombiculidae) in Georgia. *Journal of the Georgia Entomological Society*, 6(3): 184-187.
60. Cudmore, W.W. 1986. Ectoparasites of *Neotoma cinerea* and *N. fuscipes* from western Oregon. *Northwest Science*, 60: 174-178.
61. Cudmore, W.W. 1986. Nest associates and ectoparasites of the eastern wood rat, *Neotoma floridana*, in Indiana. *Canadian Journal of Zoology*, 64: 353-357.
62. Cunningham, M.W., L.A. Phillips, and C. Welbourn. 2001. Trombiculiasis in the Florida black bear. *Journal of Wildlife Diseases*, 37(634-639).
63. Custer, J.W. and D.B. Pence. 1979. Ectoparasites of the ringtail, *Bassariscus astutus*, from west Texas. *Journal of Medical Entomology*, 15(2): 132-133.
64. Davidson, W.R., J.L. Blue, L.B. Flynn, S.M. Shae, R.L. Marchinton, and J.A. Lewis. 1987. Parasites, diseases, and health status of sympatric populations of sambar deer and white-tailed deer in Florida. *Journal of Wildlife Diseases*, 23(2): 267-272.
65. Davidson, W.R. and C.B. Crow. 1983. Parasites, diseases, and health status of sympatric populations of sika deer and white-tailed deer in Maryland and Virginia. *Journal of Wildlife Diseases*, 19(4): 345-348.
66. Davis, R.M. and R.B. Loomis. 1971. The intranasal chigger *Microtrombicula merrihewi* (Acarina: Trombiculidae) in the North American free-tailed bat, *Tadarida brasiliensis*. *Journal of Wildlife Diseases*, 19(4): 345-348.

67. Dixon, J.S. and C.M. Herman. 1945. Studies on the condition of California mule deer at Sequoia National Park. *California Fish and Game*, 31(1): 3-11.
68. Dohany, A.L. and H.L. Cromroy. 1976. New records of chiggers (Acarina: Trombiculidae) from Florida. *The Florida Scientist*, 59: 183-190.
69. Dood, S.B. and A. Kurta. 1988. Additional records of Michigan bat ectoparasites. *The Great Lakes Entomologist*, 21(3): 115-116.
70. Dooley, T.J., J.R. Bristol, and A.G. Canaris. 1976. Ectoparasites from bats in extreme west Texas and south-central New Mexico. *Journal of Mammalogy*, 57(1): 189-191.
71. Doster, G.L., N.A. Wilson, and F.E. Kellogg. 1980. Ectoparasites collected from bobwhite quail in the southeastern United States. *Journal of Wildlife Diseases*, 16(4): 515-520.
72. Douglas, C.L. 1966. Amphibians and reptiles of Mesa Verde National Park, Colorado. University of Kansas Publications Museum of Natural History, 15(15): 711-744.
73. Douglas, C.L. 1969. Comparative ecology of pinyon mice and deer mice in Mesa Verde National Park, Colorado. University of Kansas Publications Museum of Natural History, 18(5): 421-504.
74. Drummond, R.O. 1957. Ectoparasitic acarina from small mammals of the Patuxent Refuge, Bowie, Maryland. *Journal of Parasitology*, 43(1): 50.
75. Durden, L.A. 1983. Phenology and host associations of eastern chipmunk (*Tamias striatus*) epifauna in central Tennessee. *Journal of the Tennessee Academy of Science*, 58(1-2): 16-20.
76. Durden, L.A. 1987. Interspecific associations between epifaunistic arthropods on the eastern chipmunk, *Tamias striatus*, and an overview of arthropod coexistence on mammals in general. *Journal of the Tennessee Academy of Science*, 62: 44-51.
77. Durden, L.A. 1992. Parasitic arthropods of sympatric meadow voles and white-footed mice at Fort Detrick, Maryland. *Journal of Medical Entomology*, 29: 761-766.
78. Durden, L.A., C.W. Banks, K.L. Clark, B.V. Belbey, and J.H. Oliver. 1997. Ectoparasite fauna of the eastern Woodrat, *Neotoma floridana*: composition, origin, and comparison with ectoparasite faunas of western woodrat species. *Journal of Parasitology*, 83(3): 374-381.
79. Durden, L.A., B.A. Ellis, C.W. Banks, J.D. Crowe, and J.H. Oliver, Jr. 2004. Ectoparasites of gray squirrels in two different habitats and screening of selected ectoparasites for Bartonellae. *Journal of Parasitology*, 90(3): 485-489.
80. Durden, L.A., R. Hu, J.H. Oliver, Jr., and J.E. Cilek. 2000. Rodent ectoparasites from two locations in northwestern Florida. *Journal of Vector Ecology*, 25(2): 222-228.
81. Durden, L.A. and N.A. Wilson. 1990. Ectoparasitic and phoretic arthropods of Virginia opossums (*Didelphis virginiana*) in central Tennessee. *Journal of Parasitology*, 76(4): 581-583.
82. Durden, L.A. and N.A. Wilson. 1991. Parasitic and phoretic arthropods of sylvatic and commensal white-footed mice (*Peromyscus leucopus*) in central Tennessee, with notes on Lyme disease. *Journal of Parasitology*, 77(2): 219-223.
83. Duszynski, D.W. and K.L. Jones. 1973. The occurrence of intradermal mites, *Hannemania* spp. (Acarina: Trombiculidae), in anurans in New Mexico with a histological description of the tissue capsule. *International Journal of Parasitology*, 3: 531-538.

84. Eads, R.B., G.C. Menzies, and V.I. Miles. 1952. Acarina taken during west Texas plague studies. *proceedings of the Entomological Society of Washington*, 54(5): 250-253.
85. Eads, R.B., H.A. Trevino, and E.G. Campos. 1965. Ectoparasites of the spiny pocket mouse, *Liomys irroratus texensis* Merriam. *The Southwestern Naturalist*, 10(1): 17-21.
86. Easton, E.R. 1975. Ectoparasites in two diverse habitats in western Oregon II. Chiggers (Acari: Trombiculidae). *Journal of Medical Entomology*, 12: 295-298.
87. Easton, E.R. and G.W. Krantz. 1973. A *Euschoengastia* species (Acari: Trombiculidae) of possible medical and veterinary importance in Oregon. *Journal of Medical Entomology*, 10: 225-226.
88. Easton, E.R. and W.J. Wrenn. 1988. Observations on the ecology of chiggers (Acari: Trombiculidae) from South Dakota. *Prairie Naturalist*, 20: 217-223.
89. Everett, R.E., M.A. Price, and S.E. Kunz. 1972. New host records of the chigger *Neoschoengastia americana* from Texas (Acarina: Trombiuclidae). *Journal of Medical Entomology*, 9(1): 109-110.
90. Ewing, H.E. 1923. Our only common North American chigger, its distribution and nomenclature. *Journal of Agricultural Research*, 26(9): 401-403.
91. Ewing, H.E. 1925. A contribution to our knowledge of the taxonomy of chiggers including the descriptions of a new genus, six new species and a new variety. *The American Journal of Tropical Medicine*, 5(8): 251-265.
92. Ewing, H.E. 1925. Two new chiggers (Trombicula larvae). *Proceedings of the Entomological Society of Washington*, 27(7): 145-146.
93. Ewing, H.E. 1926. The common box-turtle, a natural host for chiggers. *Proceedings of the Biological Society of Washington*, 39: 19-20.
94. Ewing, H.E. 1928. A preliminary key to the larvae of fifteen species of the mite genus *Trombicula*, with descriptions of four new species. *Proceedings of the Entomological Society of Washington*, 30(5): 77-80.
95. Ewing, H.E. 1929. Birds as hosts for the common chigger. *The American Naturalist*, 63(684): 94-96.
96. Ewing, H.E. 1929. Four new species of chiggers (Acarina-Trombidiidae). *Entomological News*, 40: 294-297.
97. Ewing, H.E. 1929. Host relationships of the North American chigger, *Trombicula irritans* (Riley). *Journal of the Washington Academy of Sciences*, 19(17): 393.
98. Ewing, H.E. 1929. Three new American chiggers (Acarina: Trombidiidae). *Proceedings of the Entomological Society of Washington*, 31(1): 9-11.
99. Ewing, H.E. 1931. A catalogue of the Trombiculinae, or chigger mites, of the new world, with new genera and species and a key to the genera. *Proceedings of the United States National Museum*, 80: 1-22.
100. Ewing, H.E. 1933. Some peculiar relationships between ectoparasites and their hosts. *The American Naturalist*, 67(711): 365-373.

101. Ewing, H.E. 1937. New species of mites of the subfamily Trombiculinae, with a key to the new world larvae of the Akamushi group of the genus *Trombicula*. Proceedings of the Biological Society of Washington, 50: 167-174.
102. Ewing, H.E. 1938. A key to the genera of chiggers (mite larvae of the subfamily Trombiculinae) with descriptions of new genera and species. Journal of the Washington Academy of Sciences, 28(6): 288-295.
103. Ewing, H.E. 1942. Remarks on the taxonomy of some American chiggers (Trombiculinae), including the descriptions of new genera and species. Journal of Parasitology, 28: 485-493.
104. Ewing, H.E. 1943. The American chiggers (larvae of the Trombiculinae) of the genus *Acariscus*, new genus. Proceedings of the Entomological Society of Washington, 45: 57-66.
105. Ewing, H.E. 1944. The Trombiculid mites (chigger mites) and their relation to disease. Journal of Parasitology, 30(6): 339-365.
106. Farner, D.S. 1946. A new host and locality record for the Trombiculid mite, *Walchia americana* Ewing, with a note on its morphology. Proceedings of the Entomological Society of Washington, 48(7): 185-186.
107. Farner, D.S. 1947. New records for *Oryzomys palustris palustris* (Harlan) and *Acariscus masoni* Ewing. Proceedings of the Biological Society of Washington, 60: 29-30.
108. Farner, D.S. and E.A. Seaman. 1946. New host records for the trombiculid mite, *Acariscus masoni* Ewing. Journal of Parasitology, 32: 93.
109. Farrell, C.E. 1956. Chiggers of the genus *Euschoengastia* (Acarina: Trombiculidae) in North America. Proceedings of the United States National Museum, 106: 85-251.
110. Finley, R.B., Jr. 1953. A northern record of *Hyla arenicolor* in western Colorado. Copeia, 1953: 180.
111. Finley, R.B., Jr. 1958. The wood rats of Colorado: distribution and ecology. University of Kansas Publications Museum of Natural History, 10(6): 213-552.
112. Fitch, H.S. 1954. Life history and ecology of the five-lined skink, *Eumeces fasciatus*. University of Kansas Publications Museum of Natural History, 8(1): 1-156.
113. Fitch, H.S. 1955. Habits and adaptations of the great plains skink (*Eumeces obsoletus*). Ecological Monographs, 25(3): 59-83.
114. Fitch, H.S. 1956. An ecological study of the collared lizard (*Crotaphytus collaris*). University of Kansas Publications Museum of Natural History, 8(3): 213-274.
115. Fitch, H.S. 1958. Natural history of the six-lined racerunner (*Cnemidophorus sexlineatus*). University of Kansas Publications Museum of Natural History, 11(2): 11-62.
116. Forrester, D.J. 1992. Parasites and diseases of wild mammals in Florida. University Press of Florida. Gainesville, FL: 459 pp.
117. Forrester, D.J., S.R. McLaughlin, S.R. Telford, Jr., G.W. Foster, and J.W. McCown. 1996. Ectoparasites (Acari, Mallophaga, Anoplura, Diptera) of white-tailed deer, *Odocoileus virginianus*, from southern Florida. Journal of Medical Entomology, 33: 96-101.

118. French, T.W. 1982. Ectoparasites of the southeastern shrew, *Sorex longirostris*, and the masked shrew, *S. cinereus*, in Vigo County, Indiana. *Journal of Medical Entomology*, 19(5): 628-630.
119. Genoways, H.H. and J.K. Jones, Jr. 1972. Mammals from southwestern North Dakota. *Occasional Papers of the Museum of Texas Tech University*, 6: 1-36.
120. George, J.E. 1960. Notes on the parasitic mites of some west Texas reptiles. *The Southwestern Naturalist*, 5: 105-106.
121. Gikas, N.S., D.W. Sparks, J.O. Whitaker, Jr., and J.S. Johnson. 2011. New ectoparasite records for bats in West Virginia and a review of previous records. *Northeastern Naturalist*, In Press.
122. Goates, M.A. 1963. Mites on kangaroo rats at the Nevada test site. *Brigham Young University Science Bulletin: Biological Series*, 3(4): 1-12.
123. Goddard, J., G.T. Baker, and B.R. Norment. 1986. Ectoparasites of the eastern chipmunk (*Tamias striatus*) from Tishomingo County, Mississippi. *Journal of Wildlife Diseases*, 22(1): 127-129.
124. Goff, M.L. and J.M. Brennan. 1980. The genera *Chatia* and *Shunsennia*, with the description of a new species of *Chatia* (Acari: Trombiculidae). *Journal of Parasitology*, 66(5): 835-838.
125. Goff, M.L. and F.W. Judd. 1981. The first record of a chigger from the Texas tortoise, *Gopherus berlandieri*. *The Southwestern Naturalist*, 26(1): 83-84.
126. Goff, M.L. and R.B. Loomis. 1973. Two new species of *Odontacarus* Ewing (Acarina: Trombiculidae) from California and Baja California, Mexico. *Journal of Medical Entomology*, 10: 333-336.
127. Goff, M.L. and R.B. Loomis. 1974. A new species of *Comatacarus* (Acarina: Trombiculidae) from central United States. *Bulletin of the Southern California Academy of Sciences*, 73: 170-171.
128. Goff, M.L. and R.B. Loomis. 1977. The genus *Odontacarus* (Acari: Trombiculidae) in North America. *Journal of Medical Entomology*, 14: 370-373.
129. Goff, M.L., R.B. Loomis, and J.M. Brennan. 1972. *Odontacarus dentatus* (Ewing, 1925) is the senior synonym of *O. galli* (Ewing, 1946) (Acarina: Trombiculidae). *Journal of Medical Entomology*, 9(5): 479-481.
130. Goff, M.L., R.B. Loomis, and W.J. Wrenn. 1986. A chigger bibliography 1758-1984 (Acari: Trombiculidae): systematics, biology, and ecology. *Bulletin of the Society of Vector Ecology*, 11(1): 1-177.
131. Goldberg, S.R. and C.R. Bursey. 1991. Duration of attachment by mites and ticks on the Iguanid lizards *Sceloporus graciosus* and *Uta stansburiana*. *Journal of Wildlife Diseases*, 27(4): 719-722.
132. Goldberg, S.R. and C.R. Bursey. 1991. Integumental lesions caused by ectoparasites in a wild population of the side-blotched lizard (*Uta stansburiana*). *Journal of Wildlife Diseases*, 27(1): 68-73.
133. Goldberg, S.R. and C.R. Bursey. 1993. Duration of attachment of the chigger, *Eutrombicula lipovskyana* (Trombiculidae) in mites pockets of Yarrow's spiny lizard, *Sceloporus jarrovii* (Phrynosomatidae) from Arizona. *Journal of Wildlife Diseases*, 29(1): 142-144.
134. Gould, D.J. 1950. A new species of chigger from California (Acarina, Trombiculidae). *The Wasmann Journal of Biology*, 8(3): 367-370.

135. Gould, D.J. 1956. The larval trombiculid mites of California (Acarina: Trombiculidae). University of California Publications in Entomology, 11: 1-115.
136. Greenberg, B. 1951. A new subgenus of *Acomatacarus* from Kansas (Acarina: Trombiculidae). *Journal of Parasitology*, 37: 525-527.
137. Greenberg, B. 1952. A review of the new world *Acomatacarus* (Acarina, Trombiculidae). *Annals of the Entomological Society of America*, 45: 473-491.
138. Grover, J.J., D.W. Duszynski, and B.C. Bogan. 1975. Histochemistry of the tissue capsule surrounding intradermal mites, *Hannemania* spp. (Acarina: Trombiculidae) in New Mexico amphibians. *Journal of Parasitology*, 61(2): 382-384.
139. Gyorkos, T.W. and D.F.J. Hilton. 1982. Range extensions from some ectoparasites from rodents of southern Quebec. *Canadian Journal of Zoology*, 60: 486-488.
140. Harkema, R. and L. Kartman. 1948. Observations on the helminthes and ectoparasites of the cotton rat, *Sigmodon hispidus hispidus* Say and Ord, in Georgia and North Carolina. *Journal of the Elisha Mitchell Society*, 64: 183-191.
141. Harlan, H.J. and R.D. Kramer. 1979. Ectoparasites of mammals and birds from Fort Dix, New Jersey. *Entomological News*, 90(2): 79-87.
142. Harlan, H.J. and D.B. Palmer, Jr. 1974. Ectoparasites of mammals and birds from Fort Bragg, North Carolina. *Journal of the Elisha Mitchell Society*, 90: 141-144.
143. Hayward, B.J. and C.S. P. 1979. The natural history of *Pipistrellus hesperus* (Chiroptera: Vespertilionidae). Office of Research. Western New Mexico University. Silver City, NM, 3: 36p.
144. Hoffmann, A. 1990. Los Trombiculidos de Mexico (Acarida: Trombiculidae). Instituto de Biologia Universidad Nacional Autonoma de Mexico Publicaciones Especiales, 2: 276p.
145. Hyland, K.E., Jr. 1950. The copperhead snake as a host for the chigger mite *Trombicula* (*Eutrombicula*) *alfreddugesi*. *Journal of Parasitology*, 36: 494.
146. Hyland, K.E., Jr. 1951. Observations on the chigger mite *Trombicula* (*Eutrombicula*) *splendens* Ewing (Acarina: Trombiculidae). *Annals of the Entomological Society of America*, 44(3): 297-301.
147. Hyland, K.E., Jr. 1956. A new species of chigger mite, *Hannemania hegeneri* (Acarina: Trombiculidae). *Journal of Parasitology*, 42: 176-179.
148. Jackson, J.O. and G.R. DeFoliart. 1975. Some quantitative relationships of certain nidicolous acari and the white-footed mouse, *Peromyscus leucopus*. *Journal of Medical Entomology*, 12(3): 323-332.
149. Jameson, D.K. 1959. A survey of the parasites of five species of bats. *The Southwestern Naturalist*, 4(2): 61-65.
150. Jameson, E.W., Jr. 1947. Natural history of the prairie vole (mammalian genus *Microtus*). University of Kansas Publications Museum of Natural History, 1(7): 125-151.
151. Jameson, E.W., Jr. 1950. The external parasites of the short-tailed shrew, *Blarina brevicauda* (Say). *Journal of Mammalogy*, 10(1): 17-21.

152. Jameson, E.W., Jr. 1972. Temperature-development relations of *Eutrombicula belkini* (Acarina: Trombiculidae) and their possible ecological significance. *Journal of Parasitology*, 58: 343-347.
153. Jameson, E.W., Jr. and J.M. Brennan. 1957. An environmental analysis of some ectoparasites of small forest mammals in the Sierra Nevada, California. *Ecological Monographs*, 27(1): 45-54.
154. Jenkins, D.W. 1948. Trombiculid mites affecting man. I. Bionomics with reference to epidemiology in the United States. *American Journal of Hygiene*, 48: 22-35.
155. Johnston, D.E. and D.L. DeGiusti. 1961. Ecological and systematic notes on some chigger-mites of the genera *Gahrlipeia*, *Trombicula*, and *Euschongastia* (Acarina: Trombiculidae) in Michigan and Ontario. *Journal of Parasitology*, 47(1): 11-12.
156. Johnston, E.E., G.W. Wharton, and R.J. Stoll. 1966. On the occurrence of *Fonsecia palmella* Brennan and Loomis (Acari: Trombiculidae), a chigger mite of reptiles, in Ohio. *Journal of Parasitology*, 52: 966.
157. Jones, G.S. and H.H. Thomas. 1982. Mites, ticks, and fleas of the mice *Zapus hudsonius* and *Napeozapus insignis* from the maritime provinces and Gaspe Peninsula, Quebec, Canada. *The Canadian Entomologist*, 114: 1031-1035.
158. Jones, J. 1998. Occurrence and abundance of chiggers (Acari: Trombiculidae) on bats (Chiroptera: Vespertilionidae) in eastern Ontario. *The Canadian Field-Naturalist*, 112: 230-233.
159. Jones, J.K., Jr. and H.H. Genoways. 1967. Annotated checklist of bats from South Dakota. *Transactions of the Kansas Academy of Science*, 70(2): 184-196.
160. Jones, J.K., Jr., R.P. Lampe, C.A. Spenrath, and T.H. Kunz. 1973. Notes on the distribution and natural history of bats in southeastern Montana. *Occasional Papers of the Museum of Texas Tech University*, 15: 1-12.
161. Jones, J.K., Jr., R.B. Loomis, P.H. Krutzsch, and O.L. Webb. 1952. New records of bats from northeastern Kansas, with notes on the bat chigger, *Euschongastia pipistrelli* (Acarina, Trombiculidae). *Transactions of the Kansas Academy of Science*, 55(3): 312-314.
162. Joy, S.K., R.F. Kirchner, and S.M. Much. 1973. Some mites from small mammals in West Virginia. *Proceedings of the West Virginia Academy of Science*, 45: 71-76.
163. Jung, R.E., S. Claeson, and J.E. Wallace. 2001. *Eleutherodactylus guttillatus* (spotted chirping frog), *Bufo punctatus* (red-spotted toad), *Hyla arenicolor* (canyon tree frog), and *Rana berlandieri* (Rio Grande leopard frog) mite infestation. *Herpetological Review*, 32(1): 33-34.
164. Kardos, E.H. 1954. Biological and systematic studies on the subgenus *Neotrombicula* (genus *Trombicula*) in the central United States (Acarina, Trombiculidae). *The University of Kansas Science Bulletin*, 36(4): 69-123.
165. Karnes, S.J. and J.P. Shoemaker. 1966. Some ectoparasites from West Virginia mammals. *Proceedings of the West Virginia Academy of Science*, 38: 37-41.
166. Kellogg, F.E., T.P. Kistner, R.K. Strickland, and R.R. Gerrish. 1971. Arthropod parasites collected from the white-tailed deer. *Journal of Medical Entomology*, 8(5): 495-498.
167. Kellogg, F.E., A.K. Prestwood, R.R. Gerrish, and G.L. Doster. 1969. Wild turkey ectoparasites collected in the southeastern United States. *Journal of Medical Entomology*, 6(3): 329-330.

168. Kinsella, J.M. and D.L. Pattie. 1967. Ectoparasites of small mammals of the Alpine Beartooth Plateau, Wyoming. *Canadian Journal of Zoology*, 45: 233-235.
169. Knight, I.W.M. 1951. A report on mites infesting the muskrat (*Ondatra zibethicus*) in British Columbia. *The Canadian Entomologist*, 83: 279-280.
170. Komarek, E.V. and R. Komarek. 1938. Mammals of the Great Smoky Mountains. *Bulletin of the Chicago Academy of Sciences*, 5(6): 137-163.
171. Krutzsch, P.H. 1955. Ectoparasites from some species of bats from western North America. *Journal of Mammalogy*, 36: 457-458.
172. Lampe, R.P., J.K. Jones, Jr., R.S. Hoffmann, and E.C. Birney. 1974. The mammals of Carter County, southeastern Montana. *Occasional Papers of the Museum of Natural History. The University of Kansas*, 25: 1-39.
173. Lang, J.D. 1972. Ectoparasites found on the round-tailed ground squirrel near Tucson, Arizona. *Arizona Academy of Science*, 7(3): 99-100.
174. Lawrence, W.H., K.L. Hays, and S.A. Grahm. 1965. Arthropodous ectoparasites from some northern Michigan mammals. *Occasional Papers of the Museum of Zoology University of Michigan*, 639: 1-7.
175. Layne, J.N. 1954. The biology of the red squirrel, *Tamiasciurus hudsonicus loquax* (Bangs), in central New York. *Ecological Monographs*, 24: 227-267.
176. Layne, J.N. 1963. A study on the parasites of the Florida mouse, *Peromyscus floridanus*, in relation to host and environmental factors. *Tulane Studies in Zoology*, 11(1): 1-27.
177. Lipovsky, L.J. 1951. A new genus of Walchiinae (Acarina, Trombiculidae). *Journal of the Kansas Entomological Society*, 24(3): 95-102.
178. Lipovsky, L.J., D.A. Crossley, Jr., and R.B. Loomis. 1955. A new genus of chigger mites (Acarina, Trombiculidae). *Journal of the Kansas Entomological Society*, 28(4): 136-143.
179. Lipovsky, L.J. and R.B. Loomis. 1954. A new chigger mite (genus *Euschongastia*) from the central United States. *Journal of Parasitology*, 40: 407-410.
180. Little, S.E., K.P. Carmichael, and P.M. Rakich. 1997. Trombidiosis-induced dermatitis in white-tailed deer (*Odocoileus virginianus*). *Veterinary Pathology*, 34: 350-352.
181. Loomis, R.B. 1954. A new subgenus and six new species of chigger mites (genus *Trombicula*) from the central United States. *University of Kansas Science Bulletin*, 36: 919-941.
182. Loomis, R.B. 1955. *Trombicula gurneyi* Ewing and two new related chigger mites (Acarina, Trombiculidae). *The University of Kansas Science Bulletin*, 37(9): 251-267.
183. Loomis, R.B. 1956. The chigger mites of Kansas (Acarina, Trombiculidae). *The University of Kansas Science Bulletin*, 37(19): 1195-1443.
184. Loomis, R.B. 1962. Change in authorship of two chigger species, *Euschongastia diversa* and *E. trigenuala* (Acarina, Trombiculidae), with designation of lectotypes. *Journal of Parasitology*, 48: 153-154.

185. Loomis, R.B. 1963. The discovery of chiggers (Acarina, Trombiculidae) in the nasal passages of cricetid rodents from California, with descriptions of two new species. *Journal of Parasitology*, 49(2): 330-333.
186. Loomis, R.B. 1964. A new species of chigger (Acarina, Trombiculidae) from lizards of western North America. *The Great Basin Naturalist*, 24(1): 13-17.
187. Loomis, R.B. 1971. The genus *Euschoengastoides* (Acarina: Trombiculidae) from North America. *Journal of Parasitology*, 57: 689-707.
188. Loomis, R.B., J.T. Baccus, and W.J. Wrenn. 1972. The chiggers (Acarina, Trombiculidae) of Big Bend National Park, Texas. National Park Service Report. Mimeo.: 17p.
189. Loomis, R.B. and M. Bunell. 1962. A new species of chigger, genus *Euschoengastia* (Acarina, Trombiculidae), with notes on other species of chiggers from the Santa Ana Mountains, California. *Bulletin of the Southern California Academy of Sciences*, 61(3): 177-184.
190. Loomis, R.B. and D.A. Crossley, Jr. 1953. A new species of chigger from eastern Kansas (Acarina: Trombiculidae). *Journal of the Kansas Entomological Society*, 26(1): 32-34.
191. Loomis, R.B. and D.A. Crossley, Jr. 1963. New species and new records of chiggers (Acarina: Trombiculidae) from Texas. *Acarologia*, 5(3): 371-383.
192. Loomis, R.B. and M.L. Goff. 1973. A new genus and two new species of North American Leeuwenhoekine chiggers (Acarina, Trombiculidae). *Journal of Medical Entomology*, 10: 113-117.
193. Loomis, R.B. and L.J. Lipovsky. 1954. Two new chigger mites (genus *Trombicula*) from the central United States. *Journal of the Kansas Entomological Society*, 27: 47-53.
194. Loomis, R.B. and J.L. Lucas. 1969. A new species of Hexidionis (Acarina, Trombiculidae) from kangaroo rats (genus *Dipodomys*) of western North America. *Bulletin of the Southern California Academy of Sciences*, 68: 225-228.
195. Loomis, R.B. and J.L. Lucas. 1970. A new subgenus and two new species of Hexidionis (Acarina, Trombiculidae) from North America. *Bulletin of the Southern California Academy of Sciences*, 69: 52-59.
196. Loomis, R.B. and H. Megen. 1975. A new species of *Neotrombicula* (Acarina: Trombiculidae) from southern California. *Bulletin of the Southern California Academy of Sciences*, 74: 161-163.
197. Loomis, R.B. and R.C. Stephens. 1973. The chiggers (Acarina, Trombiculidae) parasitizing the side-blotched lizard (*Uta stansburiana*) and other lizards in Joshua Tree National Monument, California. *Bulletin of the Southern California Academy of Sciences*, 72(2): 78-89.
198. Loomis, R.B. and J.P. Webb, Jr. 1971. A new intranasal chigger of the subgenus *Crypticula*, genus *Microtrombicula* (Acarina: Trombiculidae) from Texas. *Bulletin of the Southern California Academy of Sciences*, 70(2): 102-103.
199. Loomis, R.B. and W.C. Welbourn, Jr. 1969. A new species of *Hannemania* (Acarina, Trombiculidae) from *Bufo punctatus* of western North America, with comments on *Hannemania hylae* (Ewing). *Bulletin of the Southern California Academy of Sciences*, 68(3): 160-168.

200. Loomis, R.B. and W.J. Wrenn. 1973. Additional chiggers (Acarina, Trombiculidae) from vertebrate hosts of Big Bend National Park and vicinity, Brewster County, Texas. National Park Service Report. Mimeo.: 11 pp.
201. Loomis, R.B. and W.J. Wrenn. 1973. The North American genus *Otorhinophila* Wrenn and Loomis (Acarina, Trombiculidae), with the descriptions of three new species. *Journal of Parasitology*, 59(1): 175-182.
202. Lucas, J.L. and R.B. Loomis. 1968. The genus *Hexidionis* (Acarina, Trombiculidae) with the description of a new species from western Mexico. *Bulletin of the Southern California Academy of Sciences*, 67(4): 233-239.
203. Ludwig, D.F., D.A. Crossley, Jr., M.J. Hayes, D. Mallow, and M.C. Wicht, Jr. 1985. Pest chigger, *Eutrombicula alfreddugesi*, infestation of small mammals in piedmont habitats of Georgia (Acarina: Trombiculidae). *Journal of Entomological Science*, 20(1): 1-8.
204. Lynch, J.D. 1970. A taxonomic revision of the Leptodactylid frog genus *Syrrhophus* Cope. University of Kansas Publications Museum of Natural History, 20: 1-45.
205. MacCreary, D. 1945. Some ectoparasites, excluding Ixodoidea, of Delaware mammals. *Journal of Economic Entomology*, 38(1): 126-127.
206. Malone, J.H. and R. Paredes-Leon. 2005. Characteristics of chigger mite (*Hannemania* sp.) parasitism on *Eleutherodactylus marnockii* (Amphibia: Leptodactylidae). *Texas Journal of Science*, 57(4): 345-358.
207. Manischewitz, J.R. 1966. Studies on parasitic mites of New Jersey. *New York Entomological Society*, 74: 189-197.
208. Martin, R.L. 1972. Parasites and diseases of the rock vole. The University of Connecticut Occasional Papers Biological Sciences Series, 2(8): 107-113.
209. McAllister, C.T. 1980. Observations on the incidence of chiggers, *Eutrombicula alfreddugesi* (Oudemans) on *Crotaphytus* (Sauria: Iguanidae) in Izard County, Arkansas. *Arkansas Academy of Science Proceedings*, 34: 125.
210. McClure, H.E. 1987. The occurrence of chiggers, *Neoshoengastia americana*, among chaparral birds of southern California. *North American Bird Bander*, 12(4): 148-150.
211. McKenna, M.G., O.R. Larson, and N.R. Fellows. 1977. Invertebrates of southwestern North Dakota: Parasites. Institute for Ecological Studies, University of North Dakota Research Report, 23: 97p.
212. Melvin, R., C.L. Smith, and O.H. Graham. 1943. Some observations on chiggers. *Journal of Economic Entomology*, 36(6): 940.
213. Mertins, J.W., B.A. Hanson, and J.L. Corn. 2009. *Whartonacarus floridensis* sp. nov. (Acari: Trombiculidae), with a taxonomic review and the first record of *Whartonacarus* chiggers in the continental United States. *Journal of Medical Entomology*, 46: 1260-1268.
214. Miller, A.E. 1925. An introductory study of the Acarina, or mites, of Ohio. *Bulletin of the Ohio Agricultural Experiment Station*, 386: 85-173.
215. Miller, A.E. 1925. The native host of the chigger. *Science*, New Series, 61: 345-346.

216. Mohr, C.O. and W.A. Stumpf. 1964. Relation of tick and chigger infestations to home areas of California meadow mice. *Journal of Medical Entomology*, 1(1): 73-77.
217. Montanucci, R.R. 1971. Ecological and distributional data on *Crotaphytus reticulatus* (Sauria: Iguanidae). *Herpetologica*, 27(2): 183-197.
218. Moore, J.C. 1949. Notes on the shrew, *Sorex cinereus*, in the southern Appalachians. *Ecology*, 3: 234-237.
219. Moore, J.C. 1957. The natural history of the fox squirrel, *Sciurus niger shermani*. *Bulletin of the American Museum of Natural History*, 113(1): 1-72.
220. Morlan, H.B. 1952. Host relationships and seasonal abundance of some southwest Georgia ectoparasites. *The American Midland Naturalist*, 48(1): 74-93.
221. Murphy, T.D. 1965. High incidence of two parasitic infestations and morphological abnormalities in a population of the frog, *Rana palustris* Le Conte. *The American Midland Naturalist*, 74(1): 233-239.
222. Nadchatram, M. and N.A. Wilson. 1969. A new species and new records of *Mackiena* (Acarina, Trombiculidae). *Journal of Medical Entomology*, 6: 99-101.
223. Nelder, M.P. and W.K. Reeves. 2005. Ectoparasites of road-killed vertebrates in northwestern South Carolina, USA. *Veterinary Parasitology*, 129: 313-322.
224. Neuhauser, H.N. 1971. *Myotis leibii leibii* in the Great Smoky Mountains National Park. *Journal of the Tennessee Academy of Science*, 46(2): 79.
225. Nims, T.N., L.A. Durden, C.R. Chandler, and O.J. Pung. 2008. Parasitic and phoretic arthropods of the oldfield mouse (*Peromyscus polionotus*) from burned habitats with additional ectoparasite records from the eastern harvest mouse (*Reithrodontomys humulis*) and southern short-tailed shrew (*Blarina carolinensis*). *Comparative Parasitology*, 75(1): 102-106.
226. O'Conner, B.M. 1985. Mites (Acari) associated with the long-tailed shrew, *Sorex dispar* (Insectivora: Soricidae), in Tennessee. *The American Midland Naturalist*, 114(1): 184-187.
227. Pascal, D.D., Jr. and J.O. Whitaker, Jr. 1985. Ectoparasites of pine voles, *Microtus pinetorum*, from Clark County, Illinois. *Proceedings of the Indiana Academy of Science*, 94: 649-656.
228. Payne, R.A. and G.S. Jones. 1982. Ectoparasites and other associates of the eastern chipmunk, *Tamias striatus*, (Rodentia: Sciuridae), from northeastern USA, with additional records from Prince Edward Island, Canada. *Journal of Medical Entomology*, 19(2): 217-218.
229. Pearce, R.D. and T.J. O'Shea. 2007. Ectoparasites in an urban population of big brown bats (*Eptesicus fuscus*) in Colorado. *Journal of Parasitology*, 93(3): 518-530.
230. Penner, L.R., T. Francis, Jr., and G.C. Brown. 1954. Some observations on the ecology of a North American chigger *Trombicula (Eutrombicula) lipovskyana* Wolfenbarger, 1952, in a Tennessee community. *Journal of the Kansas Entomological Society*, 27(3): 113-117.
231. Poissant, J.A. and H.G. Broders. 2008. Ectoparasite prevalence in *Myotis lucifugus* and *M. septentrionalis* (Chiroptera: Vespertilionidae) during fall migration at Hayes Cave, Nova Scotia. *Northeastern Naturalist*, 15(4): 515-522.

232. Pomeroy, L.V. and R.B. Loomis. 1984. A new genus of Trombiculine chiggers (Acari: Trombiculidae) from western North America. *Journal of Medical Entomology*, 21: 268-273.
233. Powder, W.A. and R.B. Loomis. 1962. A new species and new records of chiggers (Acarina, Trombiculidae) from reptiles of southern California. *Journal of Parasitology*, 48(2): 204-208.
234. Pung, O.J., L.A. Durden, C.W. Banks, and D.N. Jones. 1994. Ectoparasites of opossums and raccoons in southeastern Georgia. *Journal of Medical Entomology*, 31(6): 915-919.
235. Pung, O.J., L.A. Durden, M.J. Patrick, T. Conyers, and L.R. Mitchell. 2000. Ectoparasites and gastrointestinal helminthes of southern flying squirrels in southeast Georgia. *Journal of Parasitology*, 86(5): 1051-1055.
236. Radford, C.D. 1942. The larval Trombiculinae (Acarina, Trombidiidae) with descriptions of twelve new species. *Parasitology* 34: 55-81.
237. Radford, C.D. 1946. New larval mites (Acarina: Trombiculidae). *Proceedings of the Zoological Society of London*, 116: 579-601.
238. Rainey, D.G. 1956. Eastern woodrat, *Neotoma floridana*: life history and ecology. University of Kansas Publications Museum of Natural History, 8(10): 535-646.
239. Rankin, J.S. 1937. An ecological study of parasites of some North Carolina salamanders. *Ecological Monographs*, 7: 169-269.
240. Reed, J.T. 1973. *Comatacarus*, formerly subgenus of *Leeuwenhoekia*, restored to generic status, with description of a new species (Acarina:Trombiculidae). *Journal of Medical Entomology*, 10: 315-317.
241. Reeves, W.K., L.A. Durden, C.M. Ritzi, K.R. Beckham, P.E. Super, and B.M. O'Conner. 2007. Ectoparasites and other ectosymbiotic arthropods of vertebrates in the Great Smoky Mountains National Park, USA. *Zootaxa*, 1392: 31-68.
242. Reeves, W.K., L.A. Durden, and W.J. Wrenn. 2004. Ectoparasitic chiggers (Acari: Trombiculidae, Leeuwenhoekidae), lice (Phthiraptera), and Hemiptera (Cimicidae and Reduviidae) from South Carolina, U.S.A. *Zootaxa*, 647: 1-20.
243. Regester, K.J. 2001. Intra-dermal mite, *Hannemania* sp. (Acarina: Trombiculidae), infestations differ in populations of syntopic Plethodontids in central Tennessee. *Herpetological Natural History*, 8(1): 69-73.
244. Reisen, W.K., M.L. Kennedy, and N.T. Reisen. 1976. Winter ecology of ectoparasites collected from hibernating *Myotis velifer* (Allen) in southwestern Oklahoma (Chiroptera: Vespertilionidae). *Journal of Parasitology*, 62(4): 628-635.
245. Ritzi, C.M., L.K. Ammerman, M.T. Dixon, and J.V. Richerson. 2001. Bat ectoparasites from the Trans-Pecos Region of Texas, including notes from Big Bend National Park. *Journal of Medical Entomology*, 38(3): 400-404.
246. Ritzi, C.M., B.C. Bartels, and D.W. Sparks. 2005. Ectoparasites and food habits of Elliot's short-tailed shrew, *Blarina hylophaga*. *The Southwestern Naturalist*, 50(1): 88-93.
247. Rohani, I.B. and H.L. Cromroy. 1979. Taxonomy and distribution of chiggers (Acarina: Trombiculidae) in northcentral Florida. *The Florida Entomologist*, 62(4): 363-376.

248. Rust, R.W. 1973. The acarinum of the pocket gopher, *Thomomys bottae* (Rodentia: Geomyidae). *Journal of Medical Entomology*, 10(2): 169-175.
249. Sambon, L.W. 1928. The parasitic Acarians of animals and the part they play in the causation of the eruptive fevers and other diseases of man. *Annals of Tropical Medicine and Parasitology*, 22: 67-132.
250. Sealander, J.A. and H. Young. 1955. Preliminary observations on the cave bats of Arkansas. *Proceedings of the Arkansas Academy of Science*, 7: 21-31.
251. Shoemaker, J.P. and G.M. Clark. 1975. The occurrence of *Hannemania durni* Sambon, 1928, (Acarina, Trombiculidae) on *Eurycea bislineata* (Green) from West Virginia. *Proceedings of the West Virginia Academy of Science*, 47(1): 5-6.
252. Shoemaker, J.P. and S.J. Joy. 1966. *Trombicula fitchi* (Loomis, 1954) in West Virginia. *Journal of Parasitology*, 52: 1198.
253. Sladky, K.K., T.M. Norton, and R.B. Loomis. 2000. Trombiculid mites (*Hannemania* sp.) in canyon tree frogs (*Hyla arenicolor*). *Journal of Zoo and Wildlife Medicine*, 31(4): 570-575.
254. Smith, M.A., J.O. Whitaker, Jr., and J.N. Layne. 1988. Ectoparasites of the round-tailed muskrat (*Neofiber alleni*) with special emphasis on mites of the family Listrophoridae. *The American Midland Naturalist*, 120(2): 268-275.
255. Spalding, M.G., W.J. Wrenn, S.T. Schwikert, and J.A. Schmidt. 1997. Dermatitis in young Florida sandhill cranes (*Grus canadensis pratensis*) due to infestation by the chigger, *Blankaartia sinnamaryi*. *Journal of Parasitology*, 83(4): 768-771.
256. Spicka, E.J. 1981. Ectoparasites and other arthropod associates on two subspecies of plains pocket gophers: *Geomys bursarius illinoensis* and *Geomys bursarius missouriensis*. *Canadian Journal of Zoology*, 59: 1903-1908.
257. Spoecker, P.D. 1967. Ectoparasites of a Mojave Desert population of the lizard *Uta stansburiana stejnegeri* Schmidt. *The American Midland Naturalist*, 77(2): 539-542.
258. Strandtman, R.W. and D.J. Eben. 1953. A survey of typhus in rats and rat ectoparasites in Galveston. *Texas Report on Biology and Medicine*, 11: 144-151.
259. Tanigoshi, L.K. and R.B. Loomis. 1969. The generic and specific status of *Bernia marita* Allred and Beck (Acarina, Trombiculidae). *Acarologia*, 11: 748-749.
260. Tanigoshi, L.K. and R.B. Loomis. 1974. The genus *Hyponeocula* (Acarina, Trombiculidae) of western North America. *Melandria*, 17: 1-27.
261. Thomas, H.H., T.L. Best, and C. Lydeard. 1991. Parasitic and phoretic arthropods of the elephant-eared and the Santa Cruz kangaroo rats. *Journal of Wildlife Management*, 27(2): 358-360.
262. Thomas, H.H., G.S. Jones, and R.L. Dibblee. 1980. *Sorex palustris* on Prince Edward Island. *The Canadian Field-Naturalist*, 94: 329-331.
263. Thomas, H.H., J.O. Whitaker, Jr., and T.L. Best. 1990. Ectoparasites of *Dipodomys elator* from north-central Texas with some data from sympatric *Chaetodipus hispidus* and *Perognathus flavus*. *The Southwestern Naturalist*, 35(2): 111-114.

264. Timm, R.M. 1985. Parasites. *In: Biology of New World Microtus*. R. H. Tamarin, ed. Special Publications of the American Society of Mammalogists, 8: 455-534.
265. Timm, R.M., L.R. Heaney, and D.D. Baird. 1977. Natural history of rock voles (*Microtus chrotorrhinus*) in Minnesota. *The Canadian Field-Naturalist*, 91: 177-181.
266. Tindall, E.E. and R.F. Darsie, Jr. 1961. New Delaware records for mammalian ectoparasites, including Siphonaptera host list. *Bulletin of the Brooklyn Entomological Society*, 56(4): 89-99.
267. Turner, R.W. 1974. *Mammals of the Black Hills of South Dakota and Wyoming*. University of Kansas Publications Museum of Natural History, 60.
268. Turner, R.W. and J.K. Jones, Jr. 1968. Additional notes on bats from western South Dakota. *The Southwestern Naturalist*, 13(4): 444-447.
269. Ulbrich, A.P. 1969. Chiggers, with special reference to occurrence in Michigan and to *Eutrombicula alfreddugesi*. *Journal of the American Osteopathic Association*, 68: 913-923.
270. Valdez, E.W. 2009. Ectoparasites of the occult bat, *Myotis occultus* (Chiroptera: Vespertilionidae), in New Mexico and southern Colorado.
271. Vercammen-Grandjean, P.H. 1967. Revision of the genus *Tecomatlana* Hoffmann, 1947 (Acarina: Trombiculidae). *Acarologia*, 9(4): 848-863.
272. Vercammen-Grandjean, P.H. 1971. *Trombicula jamesoni* Brennan, 1948 (Acarina, Trombiculidae) placed in the genus *Euschoengastia*. *Journal of Medical Entomology*, 8(4): 443-445.
273. Vercammen-Grandjean, P.H. and J.R. Audy. 1965. Revision of the genus *Eutrombicula* Ewing 1938 (Acarina: Trombiculidae). *Acarologia*, 7: 280-294.
274. Vercammen-Grandjean, P.H. and R.L. Langston. 1975. *The chigger mites of the world (Acarina: Trombiculidae and Leeuwenhoekiidae)* George Williams Hooper Foundation, University of California San Francisco: 1061 p. 298 plates.
275. Vercammen-Grandjean, P.H. and S.G. Watkins. 1966. A new genus and species of North American bat chiggers (Acarina: Leeuwenhoekiidae). *Acarologia*, 8: 74-77.
276. Vercammen-Grandjean, P.H., S.G. Watkins, and A.J. Beck. 1965. Revision of *Whartonia glenni* Brennan, 1962, an American bat parasite (Acarina: Leeuwenhoekiidae). *Acarologia*, 7(3): 492-509.
277. Ward, J.W. 1934. A study of some parasites of rabbits of central Oklahoma. *Proceedings of the Oklahoma Academy of Science*, 14: 31-32.
278. Wassel, M.E., G.L. Tieben, and J.O. Whitaker, Jr. 1978. The ectoparasites of the southern bog lemming, *Synaptomys cooperi*, in Indiana. *Proceedings of the Indiana Academy of Science*, 87: 446-449.
279. Wassel, M.E., J.O. Whitaker, Jr., and E.J. Spicka. 1979. The ectoparasites and other associates of the cottontail rabbit, *Sylvilagus floridanus*, in Indiana. *Proceedings of the Indiana Academy of Science*, 89: 418-420.
280. Webb, J.P., Jr. and R.B. Loomis. 1971. The subgenus *Scapuscutala* of the genus *Microtrombicula* (Acarina: Trombiculidae) from North America. *Journal of Medical Entomology*, 8(3): 319-329.

281. Webb, J.P., Jr. and R.B. Loomis. 1977. Ectoparasites *In*: Biology of bats of the new world family Phyllostomatidae. Part II. R. J. Baker, J. K. Jones, Jr., and D. C. Carter eds. Special Publications of the Museum of Texas Tech University, 13: 57-119.
282. Webb, J.P., Jr., R.B. Loomis, M.B. Madon, S.G. Bennett, and G.E. Greene. 1983. The chigger species *Eutrombicula belkini* Gould (Acari: Trombiculidae) as a forensic tool in a homicide investigation in Ventura County, California. Bulletin of the Society of Vector Ecology, 8(2): 141-146.
283. Welbourn, W.C., Jr. and R.B. Loomis. 1975. *Hannemania* (Acarina: Trombiculidae) and their anuran hosts at Fortynine Palms Oasis, Joshua Tree National Monument, California. Bulletin of the Southern California Academy of Sciences, 74: 15-19.
284. Westfall, M.C., K.K. Cecala, S.J. Price, and M.E. Dorcas. 2008. Patterns of Trombiculid mite (*Hannemania dunni*) parasitism among Plethodontid salamanders in the western piedmont of North Carolina. Journal of Parasitology, 94(3): 631-634.
285. Wharton, G.W. 1947. Studies on North American chiggers. 1. The "Akamushi" group. Journal of Parasitology, 33: 260-264.
286. Wharton, G.W. 1947. Studies on North American chiggers. 2. The subfamilies and *Womersia strandmani* n. g., n. sp. Journal of Parasitology, 33: 380-384.
287. Wharton, G.W. and A.B. Hardcastle. 1946. The genus *Neoschongastia* (Acarinida: Trombiculidae) in the western Pacific area. Journal of Parasitology, 32(3): 286-322.
288. Whitaker, J.O., Jr. 1963. A study of the meadow jumping mouse, *Zapus hudsonius* (Zimmermann), in central New York. Ecological Monographs, 33: 215-254.
289. Whitaker, J.O., Jr. 1968. Parasites *In*: Biology of *Peromyscus* (Rodentia) J. A. King ed. Special Publications of the American Society of Mammalogists, 2: 254-311.
290. Whitaker, J.O., Jr. 1973. External parasites of bats of Indiana. Journal of Parasitology, 59(6): 1148-1150.
291. Whitaker, J.O., Jr. 1976. Food and external parasites of the Norway rat, *Rattus norvegicus*, in Indiana. Proceedings of the Indiana Academy of Science, 86: 193-198.
292. Whitaker, J.O., Jr. 1979. Origin and evolution of the external parasite fauna of western jumping mice, genus *Zapus*. The American Midland Naturalist, 101: 49-60.
293. Whitaker, J.O., Jr. 1982. Ectoparasites of mammals of Indiana. Indiana Academy of Science Monographs, 4: 1-240.
294. Whitaker, J.O., Jr. and W.W. Cudmore. 1987. Food and ectoparasites of shrews of south central Indiana with emphasis on *Sorex fumeus* and *Sorex hoyi*. Proceedings of the Indiana Academy of Science, 96: 543-552.
295. Whitaker, J.O., Jr. and D.A. Easterla. 1975. Ectoparasites of bats from Big Bend National Park, Texas. The Southwestern Naturalist, 20(2): 241-254.
296. Whitaker, J.O., Jr. and T.W. French. 1982. Ectoparasites and other associates of some insectivores and rodents from New Brunswick. Canadian Journal of Zoology, 60: 2787-2797.

297. Whitaker, J.O., Jr. and T.W. French. 1988. Ectoparasites and other arthropod associates of some voles and shrews from the Catskill Mountains of New York. *The Great Lakes Entomologist*, 21(1): 43-47.
298. Whitaker, J.O., Jr. and T.W. French. 1988. Ectoparasites and other arthropod associates of the hairy-tailed mole, *Parascalops breweri*. *The Great Lakes Entomologist*, 21(1): 39-41.
299. Whitaker, J.O., Jr. and R. Goff. 1979. Ectoparasites of wild carnivora of Indiana. *Journal of Medical Entomology*, 15(5-6): 425-430.
300. Whitaker, J.O., Jr., G.D. Hartman, and R. Hein. 1994. Food and ectoparasites of the southern short-tailed shrew, *Blarina carolinensis* (Mammalia: Soricidae), from South Carolina. *Brimleyana*, 21: 97-105.
301. Whitaker, J.O., Jr., G.S. Jones, and R.J. Goff. 1976. Ectoparasites and food habits of the opossum, *Didelphis virginia*, in Indiana. *Proceedings of the Indiana Academy of Science*, 86: 501-507.
302. Whitaker, J.O., Jr., G.S. Jones, and D.D. Pascal, Jr. 1975. Notes on mammals of the Fires Creek area, Nantahala Mountains, North Carolina, including their ectoparasites. *Journal of the Elisha Mitchell Society*, 91(1): 13-17.
303. Whitaker, J.O., Jr. and R.B. Loomis. 1979. Chiggers (Acarina: Trombiculidae) from the mammals of Indiana. *Proceedings of the Indiana Academy of Science*, 88: 426-433.
304. Whitaker, J.O., Jr. and F.S. Lukoschus. 1982. Notes on ectoparasites and other associates of small mammals of Huntington County, Pennsylvania. *Proceedings of the Pennsylvania Academy of Science*, 56(187-192).
305. Whitaker, J.O., Jr., E.A. Lyons, M.A. Smith, and C. Maser. 1983. Nest inhabitants and ectoparasites of northern flying squirrels, *Glaucomys sabrinus* (Shaw), from Northeastern Oregon. *Northwest Science*, 57(4): 291-295.
306. Whitaker, J.O., Jr. and J.B. Morales-Malacara. 2005. Ectoparasites of mammals of Mexico. *In: Contribuciones Mastozoológicas en Homenaje a Bernardo Villa*. V. Sanchez-Cordero and R. A. Medellín, eds. Instituto de Biología, UNAM; Instituto de Ecología, UNAM; Comisión Nacional para el Conocimiento y Uso de la Biodiversidad: 535-680.
307. Whitaker, J.O., Jr. and R.E. Mumford. 1971. Jumping mice (Zapodidae) in Indiana. *Proceedings of the Indiana Academy of Science*, 80: 201-209.
308. Whitaker, J.O., Jr. and R.E. Mumford. 1971. Notes on a collection of bats taken by mist-netting at an Indiana cave. *The American Midland Naturalist*, 85(1): 277-279.
309. Whitaker, J.O., Jr., D.D. Pascal, Jr., and R.E. Mumford. 1979. Ectoparasites of the red squirrel (*Tamiasciurus hudsonicus*) and the eastern chipmunk (*Tamias striatus*) from Indiana. *Journal of Medical Entomology*, 16(4): 350-351.
310. Whitaker, J.O., Jr. and L.L. Schmeltz. 1973. External parasites of the woodchuck, *Marmota monax*, in Indiana. *Entomological News*, 84: 69-72.
311. Whitaker, J.O., Jr. and L.L. Schmeltz. 1973. Food and external parasites of *Sorex palustris* and food of *Sorex cinereus* from St. Louis County, Minnesota. *Journal of Mammalogy*, 54: 283-285.
312. Whitaker, J.O., Jr., E.J. Spicka, and L.L. Schmeltz. 1975. Ectoparasites of squirrels of the genus *Sciurus* from Indiana. *Proceedings of the Indiana Academy of Science*, 85: 431-436.

313. Whitaker, J.O., Jr., B.L. Walters, L.K. Castor, C.M. Ritz, and N. Wilson. 2007. Host and distribution lists of mites (Acari), parasitic and phoretic, in the hair or on the skin of North American wild mammals, north of Mexico: records since 1974. <http://digitalcommons.unl.edu/parasitologyfacpubs/1>.
314. Whitaker, J.O., Jr. and N. Wilson. 1974. Host and distribution lists of mites (Acari), parasitic and phoretic, in the hair of wild mammals of North America, north of Mexico. *The American Midland Naturalist*, 91: 1-67.
315. Whitaker, J.O., Jr. and F.A. Winter. 1977. Bats of the caves and mines of the Shawnee National Forest, Southern Illinois. *Transactions of the Illinois Academy of Science*, 70(3-4): 301-313.
316. Whitaker, J.O., Jr., W.J. Wrenn, and R.E. Lewis. 1993. Parasites. *In: Biology of the Heteromyidae*. H. H. Genoways and J. H. Brown, eds. *Special Publications of the American Society of Mammalogists*, 10: 386-478.
317. Whitaker, J.O., Jr., C.E. Yunker, and C. Maser. 1983. Acarine ectoparasites (mites) of bats of Oregon. *Northwest Science*, 57(2): 97-106.
318. Williams, C.K., W.R. Davidson, R.S. Lutz, and R.D. Applegate. 2000. Health status of northern bobwhite quail (*Colinus virginianus*) in eastern Kansas. *Avian Diseases*, 44: 953-956.
319. Wilson, L.W. 1945. Parasites collected from wood mouse in West Virginia. *Journal of Mammalogy*, 26(2): 200.
320. Wilson, N.A. and L.A. Durden. 2003. Ectoparasites of terrestrial vertebrates inhabiting the Georgia Barrier Islands, USA: an inventory and preliminary biogeographical analysis. *Journal of Biogeography*, 30: 1207-1220.
321. Wilson, N.A. and W.J. Johnson. 1971. Ectoparasites of Isle Royale, Michigan. *The Michigan Entomologist*, 4(4): 109-115.
322. Wilson, N.A., S.R. Telford, Jr., and D.J. Forrester. 1991. Ectoparasites of a population of urban gray squirrels in northern Florida. *Journal of Medical Entomology*, 28(3): 461-464.
323. Wolfenbarger, K.A. 1952. Systematic and biological studies on North American chiggers of the genus *Trombicula*, subgenus *Eutrombicula* (Acarina, Trombiculidae). *Annals of the Entomological Society of America*, 45: 645-677.
324. Woodbury, A.M. and D.D. Parker. 1956. A snake den in Cedar Mountains and notes on snakes and parasitic mites. *Herpetologica*, 12: 261-268.
325. Worth, C.B. 1950. Field and laboratory observations on roof rats, *Rattus rattus* (Linnaeus), in Florida. *Journal of Mammalogy*, 31: 293-304.
326. Worth, C.B. 1950. Observations on ectoparasites of some small mammals in Everglades National Park and Hillsborough County, Florida. *Journal of Parasitology*, 36: 326-335.
327. Worth, C.B. 1950. A preliminary host-ectoparasite register for some small mammals of Florida. *Journal of Parasitology*, 36: 497-498.
328. Wrenn, W.J. 1974. Notes on the ecology of chiggers (Acarina: Trombiculidae) from northern Michigan and the description of a new species of *Euschoengastia*. *Journal of the Kansas Entomological Society*, 47(2): 227-238.

329. Wrenn, W.J. 1983. A new species of *Euschoengastia* (Acari: Trombiculidae) from the mountain beaver in Oregon, USA. *Journal of Medical Entomology*, 20: 203-206.
330. Wrenn, W.J. 1984. *Euschoengastia whitakeri* n. sp. (Acari: Trombiculidae) from the smokey shrew in Indiana. *International Journal of Acarology*, 10(1): 15-18.
331. Wrenn, W.J. 1987. Key to larval *Euschoengastia* (Acarina: Trombiculidae) in North America. *Journal of Medical Entomology*, 24(2): 221-228.
332. Wrenn, W.J. and R.B. Loomis. 1967. *Otorhinophila*, a new genus of chiggers (Acarina, Trombiculidae) from western North America. *Acarologia*, 9(1): 152-178.
333. Wrenn, W.J. and R.B. Loomis. 1973. A new species of *Euschoengastia* (Acarina: Trombiculidae) from western North America, and the status of *E. californica* (Ewing). *Journal of Medical Entomology*, 10: 97-100.
334. Wrenn, W.J. and R.B. Loomis. 1974. The *Euschoengastia radfordi* species complex (Acarina, Trombiculidae) from western North America, with descriptions of five new species. *Annals of the Entomological Society of America*, 67(2): 241-256.
335. Wrenn, W.J. and C. Maser. 1981. *Aplodontophila*, a new genus of chiggers (Acari: Trombiculidae) from the northwestern United States. *Journal of Medical Entomology*, 18: 395-400.
336. Wrenn, W.J. and R.E. Somerby. 1974. Descriptions of two new species of *Euschoengastia* (Acarina: Trombiculidae) from California and Baja California Norte, Mexico. *Bulletin of the Southern California Academy of Sciences*, 73(1): 5-8.
337. Wright, B. 1979. Mites, ticks, fleas, and lice in the Nova Scotia Museum and Acadia University Museum collections. *Proceedings of the Nova Scotia Institute of Science*, 29: 185-196.
338. Wright, S.M., S.K. Winkel, and W.J. Wrenn. 1988. Host immune responsiveness to the chigger, *Eutrombicula cinnabaris*. *Annals of Tropical Medicine and Parasitology*, 82: 283-293.
339. Yates, T.L., D.B. Pence, and G.K. Launchbaugh. 1979. Ectoparasites from seven species of North American moles (Insectivora: Talpidae). *Journal of Medical Entomology*, 16(2): 166-168.
340. Yunker, C.E. 1958. The parasitic mites of *Myotis lucifugus* (Le Conte). *Proceedings of the Helminthological Society of Washington*, 25(1): 31-34.