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Chewing lice (Insecta: Phthiraptera) associated with vertebrates in Mexico

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Abstract

The chewing lice (Insecta: Phthiraptera: Amblycera and Ischnocera) of Mexico have been little studied and many publications include isolated records. This paper summarizes current knowledge of chewing lice recorded from Mexico resulting from an exhaustive search of the literature published from 1866 to 2017. We found 342 louse species associated with 206 bird and 28 mammal species. As a result, we provide a checklist of the chewing lice recorded from Mexico, including a host-parasite list and their geographical distribution within the country.

Key words: Phthiraptera Amblycera, Ischnocera, chewing lice, birds, mammals, Mexico, checklist

Introduction

The order Phthiraptera comprises four suborders: Anoplura, Amblycera, Ischnocera and Rhynchophthirina (Kim & Ludwig 1982). The last three suborders – popularly known as “chewing lice” or “biting lice” – were formerly grouped into the order Mallophaga (Hopkins & Clay 1952; Durden & Lloyd 2009). Recent phylogenetic analysis based on morphology and molecular data have shown that Phthiraptera is possibly a polyphyletic group, due to Amblycera being the sister group to the free-living booklouse family Liposcelididae (Johnson *et al.* 2004; Yoshizawa & Johnson 2006, 2010).

Chewing lice are small insects (adults range between 1 and 12 mm long) ectoparasitic on birds and mammals, and characterized by lack of wings and a dorsoventrally flattened body. Amblyceran species have four-segmented antenna and maxillary palps, while ischnocerans have three to five antennal segments and lack maxillary palps (Lyal 1985; Durden & Lloyd 2009).

The first record of a chewing lice from Mexico was an ischnoceran species published in 1866: *Eutrichophilus mexicanus* (Rudow, 1866a). That was an isolated record, until the end of the 19th Century when Vernon L. Kellogg (Stanford University, California) carried out extensive research on chewing lice associated with birds from western North America (See References below).

An exponential increase in the number of louse species recorded from Mexico occurred during the period

between 1930 and 2000, with over 80 publications including material from this country. The authors who published most of these records were: L. Ancona, D. Zavaleta, M.A. Carriker Jr, K.C. Emerson, R.D. Price & collaborators (see References below). Recently, Sánchez-Montes *et al.* (2013) published a list of the sucking lice recorded from Mexico.

Considering the paucity of records of chewing lice from Mexico and the lack of recent studies on this group of insects in this country, our objective is to establish the current state of knowledge of Amblycera and Ischnocera from Mexico, including and updating all records published until now.

Material and methods

We made an exhaustive search of the literature in specialized databases, such as *BioOne*, *Google Scholar*, *Medline*, *Pubmed*, *Scopus*, and *Zoological Records*. We also carried out a search of the unpublished louse records deposited in the Colección Nacional de Insectos at the Universidad Nacional Autónoma de México (CNIN). We created a database, updating the names of louse species according to those in Price *et al.* (2003), as well as their associated mammal and bird hosts following Wilson & Reeder (2005) and Ramírez-Pulido *et al.* (2014) for mammals, and Lepage *et al.* (2014) and Lepage (2016) for birds. Published geographical localities were referenced using the “*Catálogo de claves de entidades federativas, municipios y localidades*” (INEGI 2014), and the electronic gazetteers “*Global Gazetteer vr 2.3*” to generate distribution maps of each chewing louse suborder using QGIS (2016).

We have updated the names of many lice recorded from Mexico following the synonymies established by Price *et al.* (2003) and other papers published subsequently (e.g. Gustafsson & Bush 2017 for species of the *Brueelia*-complex). As a result, several host-louse associations appeared to be incorrect. The reasons for such apparent incorrect host-associations may be cross-contaminations or misidentifications of the lice by the original collectors and/or authors. Considering that we have not been able to re-examine all the specimens involved to check their correct identities, we regard most of them as cross-contaminations, in particular records published by Kellogg *et al.* (see Palma 1994). However, when the identity of the host appears correct, we have taken those records as misidentifications of the lice.

The records of “*Geomydoecus geomydis* (Osborn, 1891)” given by Barrera (1961) and Gerberg & Goble (1941) are all misidentifications of the lice and/or the result of cross-contaminations, according to current knowledge of the species of *Geomydoecus* now known from those hosts (see Price *et al.* 2003). Therefore, we have deleted *Geomydoecus geomydis* from the Mexican louse fauna.

This work is divided in two sections: the first is a louse-host list organized alphabetically by louse genus, louse species, and Mexican State. The second part is a host-louse list arranged alphabetically by bird and mammal orders, families, genera and species. Louse records resulting from contaminations and misidentifications are not included in the host-louse list.

Under each louse name, Mexican States appear in boldface, followed by host name, locality and date (if available) and published references (in parentheses). New hitherto unpublished louse species records are noted as “New Record” next to the louse name. New locality records are indicated following the name of the State. Taxonomic comments and accession numbers of available molecular sequences deposited in Genbank from organisms collected in Mexico appear in notes below the State listings. Type specimens originating from Mexico are mentioned with the acronym of the institution where they are deposited, as follows:

CASC	California Academy of Sciences, San Francisco, California, U.S.A.
CNIABM	Colección Nacional de Insectos Dr. Alfredo Barrera Marín, Museo de Zoología, Facultad de Ciencias, Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico.
CNIN	Colección Nacional de Insectos, Instituto de Biología, UNAM, Mexico City, Mexico.
EMEC	Essig Museum of Entomology, University of California, Berkeley, California, U.S.A.
KSUC	Kansas State University, Manhattan, U.S.A.
LSAM	Louisiana State Arthropod Museum, Louisiana State University, Baton Rouge, Louisiana, U.S.A.
NHML	Natural History Museum, London, United Kingdom.
OSUC	K.C Emerson Museum, Oklahoma State University, Stillwater, Oklahoma, U.S.A.

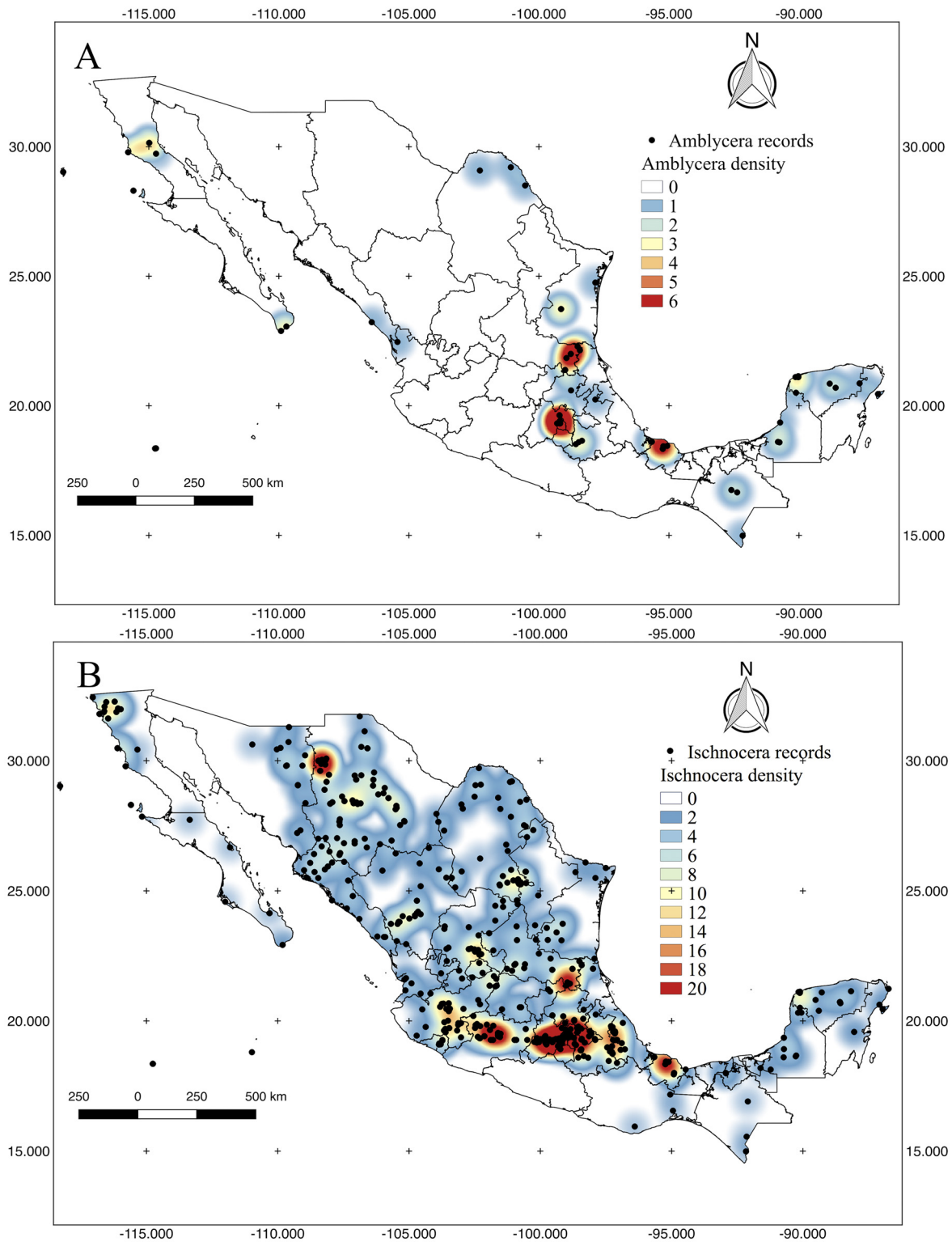


FIGURE 1. Geographical distribution of chewing lice reported from Mexico. **A**, *Amblycera*. **B**, *Ischnocera*.

Results

We record 342 species of chewing lice, belonging to seven families and 107 genera, associated with 206 species of birds (belonging to 154 genera, 60 families and 20 orders), and with 28 species of mammals (belonging to 17 genera, 8 families and 3 orders), distributed over 31 States of Mexico (Figs 1 A, B).

Annotated checklist of chewing lice from Mexico

Suborder Amblycera Kellogg, 1896a

Family Boopiidae Mjöberg, 1910

Genus *Heterodoxus* Le Souëf & Bullen, 1902

Heterodoxus spiniger (Enderlein, 1909)

Menopon spiniger Enderlein, 1909: 80, pl. 8, figs 4–5.

Coahuila: *Canis lupus familiaris*, no date (Lozoya-Saldaña *et al.* 1986); *Capra aegagrus hircus*, Buenavista (Lozoya-Saldaña *et al.* 1986).

Distrito Federal: *Canis lupus familiaris*, Reserva Ecológica del Pedregal de San Ángel (Pacheco-Coronel 2010).

Tabasco: *Canis lupus familiaris*, Cárdenas, Centla, Villahermosa, May–June 2015 (Torres-Chable *et al.* 2017).

Note: The record from the goat (*Capra aegagrus hircus*) is most likely the result of a contamination because *H. spiniger* is a regular and natural parasite of canids and marsupials only (see Price *et al.* 2003).

Family Gyropidae Kellogg, 1896a

Genus *Gliricola* Mjöberg, 1910

Gliricola porcelli (Schrank, 1781)

Pediculus porcelli Schrank, 1781: 500, pl. 1, fig. 1.

Distrito Federal: *Cavia porcellus*, no date, Instituto de Biología (Zavaleta 1946a).

Yucatán: *Dicotyles crassus*, no date (Mukul-Yerves *et al.* 2014); *Mazama pandora*, (Mukul-Yerves *et al.* 2014).

Note: Zavaleta (1946a) described this louse as the new species *Gliricola mexicana* from *Cavia porcellus*. Records from the pecarí (*Dicotyles crassus*) and the corzuela (*Mazama pandora*) are most likely the result of contaminations because *G. porcelli* is a regular and natural parasite of rodent species of the genus *Cavia* (see Price *et al.* 2003).

Genus *Gyropus* Nitzsch, 1818

Gyropus ovalis Burmeister, 1838

Gyropus ovalis Burmeister, 1838: 443.

Distrito Federal: *Cavia porcellus*, no date, Instituto de Biología (Zavaleta 1946a).

Note: Zavaleta (1946a) described this louse as the new species *Macrogyropus mexicanus*.

Family Laemobothriidae Mjöberg, 1910

Genus *Laemobothrion* Nitzsch, 1818

Laemobothrion maximum (Scopoli, 1763)

Pediculus maximus Scopoli, 1763: 382.

Chiapas: *Caracara cheriway*, Jan. 1944 (Zavaleta 1944) (CNIN - PHT0018).

Notes: Specimens of *L. maximum* were identified by Zavaleta (1944) as “*Lemobothrium oligothrix* C.”, with the host given as “*Polyhorus cheriway*”.

Family Menoponidae Mjöberg, 1910

Genus *Actornithophilus* Ferris, 1916

Actornithophilus bicolor (Piaget, 1880)

Colpocephalum bicolor Piaget, 1880: 561, pl. 47, fig. 1.

Baja California: *Arenaria melanocephala*, San Martín Island, 1897, R.C. McGregor (Kellogg & Mann 1912); *Calidris virgata*, San Gerónimo Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Kellogg & Mann (1912) described the above samples of *A. bicolor* as “*Colpocephalum tigrum* n. sp.”. The record from the Surfbird (*Calidris virgata*) is most likely the result of a contamination because *A. bicolor* is a regular and natural parasite of only two species of *Arenaria* (see Price *et al.* 2003).

Actornithophilus incisus (Piaget, 1880)

Colpocephalum incisum Piaget, 1880: 569, pl. 47, fig. 9.

Colima: *Anous stolidus ridgwayi*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann 1912); *Onychoprion anaethetus*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Notes: Specimens of *A. incisus* were identified by Kellogg & Mann (1912) as “*Colpocephalum milleri* Kellogg and Kuwana”. The record from the bridled tern (*Onychoprion anaethetus*) is likely the result of a contamination because *A. incisus* is a regular and natural parasite of *Anous stolidus* only (see Price *et al.* 2003). The locality (Socorro Island) was recorded as belonging to the State of Baja California; however, this island is in the Archipelago of Revillagigedo located in the State of Colima (INEGI 2014).

Actornithophilus mexicanus Emerson, 1953

Actornithophilus mexicanus Emerson, 1953: 134.

San Luis Potosí: *Himantopus mexicanus*, Tamuín, 17 Nov. 1943 (Carriker 1954a).

Actornithophilus ochraceus (Nitzsch, 1818)

Liotheum (Colpocephalum) ochraceus Nitzsch, 1818: 299.

San Luis Potosí: *Pluvialis squatarola*, Ébano, 1 Nov. 1946 (Carriker 1954a).

Yucatán: *Charadrius nivosus nivosus*, 13 km. WSW Sisal; 4 mi. S Sisal (Klaas 1968).

Note: Specimens of *A. ochraceus* were identified by Carriker (1954a) as “*Actornithophilus flavipes* (Giebel, 1874)”.

Actornithophilus piceus lari (Packard, 1870)

Colpocephalum lari Packard, 1870: 96, pl. 1, fig. 1.

Baja California: *Larus* sp., no date, J.F. Abbott (Kellogg 1899a); *Larus heermanni*, San Gerónimo Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *A. piceus lari* were misidentified by Kellogg (1899a) as “*Colpocephalum abbotti* n. sp.”, and by Kellogg & Mann (1912) as “*Colpocephalum funebre* Kellogg, 1896”.

Genus *Amysidea* Ewing, 1927

Amysidea (Cracimenopon) purpurascens Carriker, 1950

Amysidea semicracis purpurascens Carriker, 1950a: 501, figs 32–34.

Veracruz: *Penelope purpurascens purpurascens*, Volcán San Martín, 17 Apr. 1940, M.A. Carriker, Jr (Carriker 1950a).

Types: Holotype female and allotype male deposited in USNM (68576).

***Amyrsidea (Cracimenopon) rubra* Carriker, 1950**

Amyrsidea simplex rubra Carriker, 1950a: 495, figs 6–9.

Chiapas: *Crax rubra rubra*, Apr. 1942 (Zavaleta 1944) (CNIN-PHT0005).

Note: Zavaleta (1944) identified her material as “*Menopon monostoechum* K.”, a species now regarded as a junior synonym of *Amyrsidea (Argimenopon) subaequale* (Piaget, 1880) (see Price *et al.* 2003). However, based on the host, we regard that sample as *Amyrsidea (Cracimenopon) rubra* Carriker, 1950.

***Amyrsidea (Cracimenopon) spicula* Carriker, 1950**

Amyrsidea spicula spicula Carriker, 1950a: 506, figs 54–55.

Campeche: *Ortalis vetula intermedia*, 7.5 km W Escárcega (Klaas 1968).

San Luis Potosí: *Ortalis vetula mcalli*, Xixitla (Carriker 1954a).

Veracruz: *Ortalis vetula vetula*, Tres Zapotes, 16 Mar. 1940, M.A. Carriker, Jr (Carriker 1950a).

Types: Holotype female and allotype male deposited in USNM (68582).

***Amyrsidea (Cracimenopon) wagleri* (Carriker, 1967)**

Cracimenopon wagleri Carriker, 1967b: 44, figs 13, 18.

No State: *Ortalis wagleri*, no data (Carriker 1967b).

Types: Holotype female deposited in USNM (68241).

Genus *Austromenopon* Bedford, 1939

***Austromenopon beckii* (Kellogg, 1906)**

Menopon beckii Kellogg, 1906: 322.

Colima: *Phaethon aethereus*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *A. beckii* were identified by Kellogg & Mann (1912) as “*Menopon singularis*” and “*Menopon becki* Kellogg”. The locality (Socorro Island) was recorded as belonging to the State of Baja California; however, this island is in the Archipelago of Revillagigedo located in the State of Colima (INEGI 2014).

***Austromenopon oceanodromae* Price & Clay, 1972**

Austromenopon oceanodromae Price & Clay, 1972: 501, figs 49, 50.

Baja California: *Hydrobates macrodactylus*, Guadalupe Island, 1897, R.C. McGregor (Kellogg & Mann 1912); *Hydrobates macrodactylus*, Guadalupe Island, no date (Price & Clay 1972).

Note: One specimen of *A. oceanodromae* was identified by Kellogg & Mann (1912) as “*Menopon paululum* Kellogg and Chapman”. This record is likely to be the result of a misidentification of the louse because *A. paululum* is a regular and natural parasite of species of *Puffinus* only (see Price *et al.* 2003).

***Austromenopon sachtlebeni* Timmermann, 1954**

Austromenopon sachtlebeni Timmermann, 1954a: 202, fig. 11.

Yucatán: *Tringa semipalmatus inornata*, 8–13 km WSW Sisal (Klaas 1968).

***Austromenopon transversum* (Denny, 1842)**

Liotheum (Menopon) transversum Denny, 1842: 201, 226, pl. 21, fig. 7.

Baja California: *Larus heermanni*, San Gerónimo Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *A. transversum* were identified by Kellogg & Mann (1912) as “*Menopon infrequens* Kellogg”.

Genus *Bonomiella* Conci, 1942

***Bonomiella columbae* Emerson, 1957**

Bonomiella columbae Emerson, 1957: 63, figs 1–3.

Estado de Mexico: *Columba livia*, Centro de Enseñanza Agropecuaria de la FES-Cuautitlán (Nieves-García 2008).

Genus *Ciconiphilus* Bedford, 1939

Ciconiphilus decimfasciatus (Boisduval & Lacordaire, 1835)

Liotheum decimfasciatus Boisduval & Lacordaire, 1835: 123.

Campeche: *Ardea alba*, 5 km S Champotón (Klaas 1968).

Chiapas: *Ardea alba egretta*, Apr. 1943 (Zavaleta 1944); *Habia rubica*, Apr. 1942 (Zavaleta 1944).

Distrito Federal: *Bombycilla cedrorum*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera al Desierto de los Leones (Zavaleta 1943a).

Notes: Specimens of *C. decimfasciatus* were identified by Zavaleta (1943a; 1944) as “*Colpocephalum laticeps* K.”, and by Klaas (1968) as “*Ciconiphilus obscurus* (Giebel, 1874)”. Records from *Bombycilla cedrorum* and *Habia rubica* are most likely the result of contaminations because *C. decimfasciatus* is a regular and natural parasite of herons, family Ardeidae (see Price *et al.* 2003).

Genus *Colpocephalum* Nitzsch, 1818

Colpocephalum ajajae Ewing, 1930

Colpocephalum ajajae Ewing, 1930: 126.

San Luis Potosí: *Platalea ajaja*, Pujal, 30 Oct. 1946 (Carriker 1954a).

Colpocephalum foetens (Eichler, 1954)

Neocolpocephalum foetens Eichler, 1954: 44, figs 27–29.

No State: *Coragyps atratus*, no data (Klaas 1968).

Colpocephalum fregili Denny, 1842

Liotheum (Colpocephalum) fregili Denny, 1842: 198, 208, pl. 20, fig. 4.

Baja California: *Corvus corax sinuatus*, no date, J.F. Abbott (Kellogg 1899a).

Colima: *Corvus* sp., Clarion Island, 1901, R. Beck (Kellogg 1906).

Note: Specimens of *C. fregili* were identified by Kellogg (1906) as “*Colpocephalum subaequale* Nitzsch”. Other host records of “*Colpocephalum subaequale* Nitzsch” from Clarion Island in Kellogg (1906) are regarded as contaminations or misidentifications (see Palma 1994).

Colpocephalum fusconigrum Giebel, 1874

Colpocephalum fusconigrum Giebel, 1874: 274.

San Luis Potosí: *Eudocimus albus*, Tamuín, 16 Sep. 1946, C. Shaw (Carriker 1954a).

Colpocephalum hoffmanni Zavaleta, 1944

Colpocephalum hoffmanni Zavaleta, 1944: 199, pl. 1, fig. 6.

Chiapas: *Oreophasis derbianus*, 4 Jun. 1943 (Zavaleta 1944; Price 1965).

Note: The regular and natural host of *C. hoffmanni* is *Calocitta formosa* (Swainson). The type host, *Oreophasis derbianus*, is an error (Price 1965).

Colpocephalum maculatum Piaget, 1880

Colpocephalum maculatum Piaget, 1880: 516, pl. 43, fig. 1.

Baja California: *Caracara cheriway*, no date, J.F. Abbott (Kellogg 1899a).

Note: The record of *Colpocephalum maculatum* by Kellogg & Chapman (1902a) from “(Tampico, Mexico)” was incorrectly taken from Kellogg (1899b), where the locality is correctly given as “Baja California”.

Colpocephalum megalops Giebel, 1874

Colpocephalum megalops Giebel, 1874: 261.

Quintana Roo: *Sarcoramphus papa*, 1 km. N Pueblo Nuevo X-can (Klaas 1968).

***Colpocephalum occidentalis* Price, 1967**

Colpocephalum occidentalis Price, 1967: 276, figs 8–9.

Baja California Sur: *Pelecanus occidentalis*, Cape San Lucas, 19 Jan. 1940, G. Auguston (Price 1967).

Sinaloa: *Pelecanus occidentalis californicus*, Acuario Mazatlán, no date (González-Quintero 2011).

***Colpocephalum pectinatum* Osborn, 1902**

Colpocephalum pectinatum Osborn, 1902: 201, pl. 14, fig. 2.

Baja California: *Athene cunicularia hypugaea*, San Benito Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *C. pectinatum* were identified by Kellogg & Mann (1912) as “*Colpocephalum flavescens* Nitzsch”.

***Colpocephalum scalariforme* Rudow, 1866**

Colpocephalum scalariforme Rudow, 1866b: 471.

San Luis Potosí: *Mycteria americana*, Tamuín, 17 Oct. 1946, C. Shaw (Carriker 1954a).

***Colpocephalum spineum* Kellogg, 1899**

Colpocephalum spineum Kellogg, 1899a: 38, pl. 4, fig. 1.

Colima: *Fregata magnificens*, Clarion Island, 1901, R. Beck (Kellogg 1906).

***Colpocephalum turbinatum* (Denny, 1842)**

Liotheum (Colpocephalum) turbinatum Denny, 1842: 198, 209, pl. 21, fig. 1.

Oaxaca: *Meleagris gallopavo*, Coastal region (Camacho-Escobar *et al.* 2014).

Note: This host-lice association is the result of a misidentification or a cross contamination of the lice. Although *Colpocephalum turbinatum* has been recorded from a wide range of host genera and species, there have been no record from *Meleagris gallopavo* (see Price *et al.* 2003). Instead, this bird is host to another species: *Colpocephalum tausi* (Ansari, 1951).

***Colpocephalum unciferum* Kellogg, 1896**

Colpocephalum unciferum Kellogg, 1896a: 140, pl. 12, figs 1–3.

Colima: *Puffinus auricularis*, Clarion Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

San Luis Potosí: *Pelecanus erythrorhynchos*, Ajinche, 10 Nov. 1946, C. Shaw (Carriker 1954a).

Note: The record from *Puffinus auricularis* is most likely the result of a contamination because there is no species of *Colpocephalum* parasitising any species of *Puffinus* (see Price *et al.* 2003).

***Colpocephalum* sp.**

Colima: *Puffinus auricularis*, Clarion Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Distrito Federal: *Hylocharis leucotis*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, 1942 (CNIN-PHT0001).

Note: Both records of *Colpocephalum* sp. listed above are most likely the result of contaminations or misidentifications of the lice because there is no species of *Colpocephalum* parasitising any species of *Puffinus* or hummingbirds (see Price *et al.* 2003).

Genus *Comatomenopon* Uchida, 1920

***Comatomenopon thulae* Tuff, 1967**

Comatomenopon thulae Tuff, 1967a: 249, figs 2, 4

Tamaulipas: *Egretta thula*, Río Americano, Tampico, 25 Aug. 1961, M.A. Price & O.H. Graham (Tuff 1967a).

Types: Holotype male and allotype female deposited in USNM (68967).

Genus *Dennyus* Neumann, 1906

Dennyus dubius (Kellogg, 1896)

Nitzschia dubius Kellogg, 1896b: 540, pl. 73, fig. 6.

San Luis Potosí: *Chaetura pelagica*, Xilitla, 18 Apr. 1947, C. Shaw (Carriker 1954a).

Genus *Eidmanniella* Kéler, 1938a

Eidmanniella albescens (Piaget, 1880)

Menopon albescens Piaget, 1880: 491, pl. 41, fig. 4.

Colima: *Phaethon aethereus*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Notes: Specimens of *E. albescens* were identified by Kellogg & Mann (1912) as “*Menopon singularis* Kellogg”. This record is likely to be the result of a contamination because *E. albescens* is a regular and natural parasite of species of the genus *Sula* (see Price *et al.* 2003). The locality (Socorro Island) was recorded as belonging to the State of Baja California; however, this island is in the Archipelago of Revillagigedo located in the State of Colima (INEGI 2014).

Genus *Heteromenopon* Carriker, 1954b

Heteromenopon sp.

Chihuahua: *Rhynchopsitta pachyrhyncha*, Northern Sierra Madre (Stone *et al.* 2005).

Genus *Hohorstiella* Eichler, 1940

Hohorstiella lata (Piaget, 1880)

Menopon latum Piaget, 1880: 457, pl. 37: fig. 1.

Estado de Mexico: *Columba livia*, Centro de Enseñanza Agropecuaria de la FES-Cuautitlán (Nieves-García 2009).

No State: *Columba livia*, no data (Hill & Tuff 1978).

Hohorstiella paladinella Hill & Tuff, 1978

Hohorstiella paladinella Hill & Tuff, 1978: 311, figs 4–6.

Chihuahua: *Leptotila verreauxi*, 20 Jul. 1958, J. Knox Jones (Hill & Tuff 1978).

Sinaloa: *Zenaida asiatica*, Escuinapa, 11 Apr. 1960, G.B. Saunders (Hill & Tuff 1978).

Genus *Kurodaia* Uchida, 1926

Kurodaia (Conciella) caputonis (Carriker, 1966)

Conciella caputonis Carriker, 1966a: 77, figs 1, 2.

Veracruz: *Glaucidium ridgwayi*, Tres Zapotes, 12 Mar. 1940 (Carriker 1966a).

Type: Holotype female of *Conciella glaucidia* deposited in USNM (68811).

Note: Carriker (1966a) described the Mexican material as “*Conciella glaucidia* n. sp.”, but this species was synonymised under *Kurodaia (Conciella) caputonis* by Price & Emerson (1967).

Kurodaia gnomae Price, 1964

Kurodaia gnomae Price, 1964: 145, figs 1–3.

Tamaulipas: *Glaucidium gnoma*, Ciudad Victoria, 31 May 1960, Miles (Price 1964).

Types: Holotype female and allotype male deposited in USNM.

Genus *Longimenopon* Thompson, 1948a

Longimenopon dominicanum (Kellogg & Mann, 1912)

Colpocephalum dominicanum Kellogg & Mann, 1912: 63.

Baja California: *Hydrobates macrodactylus*, Guadalupe Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Genus *Machaerilaemus* Harrison, 1915

Machaerilaemus cyanocittae Price, Hellenthal & Dalglish, 2002

Machaerilaemus cyanocittae Price, Hellenthal & Dalglish, 2002: 68.

Coahuila: *Aphelocoma ultramarina*, no date (Price *et al.* 2002).

Tamaulipas: *Cyanocorax yncas*, no date (Price *et al.* 2002).

Genus *Menacanthus* Neumann, 1912

Menacanthus aedonis Price, 1977

Menacanthus aedonis Price, 1977: 215

No State: *Thryomanes bewickii*, no data (Price, 1977).

Menacanthus aurocapillus Carriker, 1958

Menacanthus aurocapillus Carriker, 1958: 172

Coahuila: *Oreothlypis crissalis*, Las Vacas, 14 Jun. 1958, C.A. Ely (Palma *et al.* 1998).

No State: *Vermivora celata*, no data (Price 1977).

Menacanthus balfouri Waterston, 1915

Menacanthus balfouri Waterston, 1915: 15, fig. 1, 2a.

No State: *Ramphastos sulfuratus*, no data, (Price & Emerson 1975).

Menacanthus camelinus (Nitzsch, 1874)

Menopon camelinus Nitzsch, 1874: 288, pl. 15, fig. 3.

No State: *Lanius ludovicianus*, no data (Price 1977).

Menacanthus cornutus (Schömmer, 1913)

Menopon cornutum Schömmer, 1913: 64, 71, pl. 7, fig. 29.

Oaxaca: *Meleagris gallopavo*, Coastal region (Camacho-Escobar *et al.* 2014).

Menacanthus distinctus (Kellogg & Chapman, 1899)

Menopon distinctum Kellogg & Chapman, 1899: 126, pl. 8, fig. 7.

Chiapas: *Calocitta formosa azurea*, Apr. 1943 (Zavaleta 1944).

Notes: Specimens of *M. distinctus* were identified by Zavaleta (1944) as “*Menopon distinctum* K.” (CNIN-PHT0003). This record is likely the result of a contamination because *Menacanthus distinctus* is not a regular and natural parasite of any species of the family Corvidae (see Price *et al.* 2003).

Menacanthus eurysternus (Burmeister, 1838)

Menopon eurysternum Burmeister, 1838: 439.

Distrito Federal: *Phainopepla nitens*, 1930 (Palma *et al.* 1998).

Hidalgo: *Turdus grayi*, Metztitlán, 5 Dec. 1985, A.R. Phillips (Palma *et al.* 1998).

Menacanthus pici Denny, 1842

Menacanthus (Menopon) pici Denny, 1842: 200, 219, pl. 20, fig. 5.

Baja California: *Melanerpes uropygialis*, no date, J.F. Abbott (Kellogg 1899a).

Note: Specimens of *M. pici* were identified by Kellogg (1899a) as “*Menopon praecursor* n. sp.”.

***Menacanthus quiscali* Price, 1977**

Menacanthus quiscali Price, 1977: 212, figs 22, 23.

No State: *Quiscalus mexicanus*, no data (Price 1977).

***Menacanthus stramineus* (Nitzsch, 1818)**

Liotheum (Menopon) stramineum Nitzsch, 1818: 300.

Coahuila: *Meleagris gallopavo*, Sierra del Burro, no date (Salas-Westphal 2000).

Nuevo León: no host, no date (Quiroz-Martínez & Cantu 1995).

Oaxaca: *Meleagris gallopavo*, Coastal región, no date (Camacho-Escobar *et al.* 2014).

Yucatán: *Meleagris gallopavo*, Cepeda, no date; Dzibzibachi, no date; Huhi, no date; Motul, no date; Samahil, no date (Canul *et al.* 2014; Canul *et al.* 2016).

Genus *Menopon* Nitzsch, 1818

***Menopon gallinae* (Linnaeus, 1758)**

Pediculus gallinae Linnaeus, 1758: 613.

Nuevo León: no host, no date (Quiroz-Martínez & Cantu 1995).

Oaxaca: *Meleagris gallopavo*, Coastal región, no date (Camacho-Escobar *et al.* 2014).

Tamaulipas: *Gallus gallus*, Ciudad Victoria, no date (Roberts 1934).

Yucatán: *Meleagris gallopavo*, Cepeda, no date; Dzibzibachi, no date; Motul, no date; Samahil, no date (Canul *et al.* 2016).

No State: *Gallus gallus* (Ancona 1935a).

Puebla: *Gallus gallus*, Matamoros, Aug. 1942 (CNIN-PHT0004). **New locality record.**

Note: “Matamoros” probably refers to Izúcar de Matamoros.

Genus *Myrsidea* Waterston, 1915

***Myrsidea antiqua* Ansari, 1956**

Myrsidea antiqua Ansari, 1956a: 174, fig. 10.

Veracruz: *Turdus grayi*, Tlacotalpán, 15 Feb. 1940, M.A. Carriker Jr (Ansari 1956).

Types: Holotype male and allotype female deposited in USNM.

***Myrsidea balteri* Clay, 1968**

Myrsidea balteri Clay, 1968: 222, text figs 9, 16, 30; pl. 4, fig. 5.

Tamaulipas: *Quiscalus mexicanus*, Ciudad Victoria, 23 Apr. 1931, R.A. Roberts (Clay 1968).

Veracruz: *Quiscalus mexicanus*, Tlacotalpan, 9 Feb. 1940, M.A. Carriker Jr (Clay 1968).

Note: The host from Veracruz was given as “*Quiscalus assimilis*”, but this species is not recognized as a valid taxon.

***Myrsidea chiapensis* Zavaleta, 1944**

Myrsidea chiapensis Zavaleta, 1944: 204, pl. 1, fig. 4.

Chiapas: *Calocitta formosa azurea*, Cacahoatán, Apr. 1942 (Zavaleta 1944); *Oreophasis derbianus*, Tacaná, Jun. 1943 (Zavaleta 1944).

Note: Specimens reported by Zavaleta (1944) from the horned guan (*Oreophasis derbianus*) are most likely the result of a contamination because no species of *Myrsidea* is a natural and regular parasite of any member of the family Cracidae (see Price *et al.* 2003).

***Myrsidea destructor* Ansari, 1956**

Myrsidea destructor Ansari, 1956a: 166, fig. 2.

Veracruz: *Catharus mexicanus mexicanus*, Volcan San Martín, 16 Apr. 1940, M.A. Carriker Jr (Ansari 1956).

Types: Holotype male and allotype female deposited in USNM.

***Myrsidea dissimilis* (Kellogg, 1896)**

Menopon dissimilis Kellogg, 1896b: 536, pl. 73, fig. 5.

Baja California Sur: *Cardinalis sinuatus peninsulae*, San José del Cabo, 1897, R.C. McGregor (Kellogg & Mann 1912).

Distrito Federal: *Tachycineta thalassina*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones (Zavaleta 1943a) (CNIN-PHT0006).

Notes: One specimen of *Myrsidea dissimilis* was identified by Kellogg & Mann (1912) as “*Menopon dissimile* Kellogg”. The host was identified as “*Pyrrholoxia venusta peninsulae*”.

***Myrsidea incerta* (Kellogg, 1896)**

Menopon incertum Kellogg, 1896b: 533, pl. 73, fig. 2.

Veracruz: *Catharus ustulatus ustulatus*, Tres Zapotes, 29 Jan. 1940, M.A. Carriker Jr (Ansari 1956).

Note: Specimens of *M. incerta* were identified by Ansari (1956) as “*Myrsidea scabiei* sp. nov.”, and the host as “*Hylocichla u. ustulata* (Nuttal)”.

***Myrsidea invadens* (Kellogg & Chapman, 1902)**

Menopon invadens Kellogg & Chapman, 1902b: 167, pl. 15, fig. 5.

Chiapas: *Calocitta formosa azurea*, Apr. 1943 (Zavaleta 1944); *Contopus pertinax pertinax*, Apr. 1942 (Zavaleta 1944) (CNIN-PHT00005).

***Myrsidea laciniaesternata* Eichler, 1956**

Myrsidea laciniaesternata Eichler, 1956: 137, fig. 11.

No State: *Habia* sp., no data (Bueter *et al.* 2009).

Genbank Accession Numbers: AF545732, AF545793.

***Myrsidea luroris* (Carriker, 1903)**

Colpocephalum luroris Carriker, 1903: 174, pl. 6, fig. 4.

Chiapas: *Cyanolyca pulchra*, Apr. 1942 (Zavaleta 1944).

Notes: This species was cited as “*Myrsides luronis*” by Zavaleta (1944). The host was given as “*Cyanolyca pulchra mitrata* Ridgway” but, based on molecular data, Bonaccorso (2009) does not recognize it as a valid subspecies.

***Myrsidea mirabilis* (Carriker, 1903)**

Colpocephalum mirabile Carriker, 1903: 175, pl. 6, fig. 5.

No State: *Psarocolius bifasciatus*, no data (Clay 1968).

***Myrsidea* sp.**

Campeche: *Mimus gilvus*, 5 km. S Champotón, no date (Klaas 1968).

Quintana Roo: *Tolmomyias sulphurescens*, Pueblo Nuevo X-can, no date (Klaas 1968).

Yucatán: *Petrochelidon fulva citata*, Pisté, no date (Klaas 1968).

No State: *Cyanocorax morio*, no data (Bueter *et al.* 2009).

Genbank Accession Numbers: ex *Cyanocorax morio* FJ171281, AF320431.

Genus *Piagetiella* Neumann, 1906

***Piagetiella peralis* (Leidy, 1878)**

Menopon perale Leidy, 1878: 100.

San Luis Potosí: *Pelecanus erythrorhynchos*, Ebano, 10 Nov. 1946, C. Shaw (Carriker 1954a).

Genus *Plegadiphilus* Bedford, 1939

Plegadiphilus plegadis (Dubinin, 1938)

Menopon plegadis Dubinin, 1938: 178, figs 12, 15.

San Luis Potosí: *Plegadis chihi*, Tamuín, 27 Sep. 1946, C. Shaw (Carriker 1954a).

Note: The host was identified as “*Plegadis (falcinellus?) chihi* (Vieillot)”, but it is now regarded as a valid species, *Plegadis chihi*, with distribution in América, while *Plegadis falcinellus* is distributed in Africa, Eurasia and Australasia.

Genus *Pseudomenopon* Mjöberg, 1910

Pseudomenopon carrikeri Price, 1974

Pseudomenopon carrikeri Price, 1974: 75, figs 7, 24.

Veracruz: *Heliornis fulica*, Tres Zapotes, 7 Mar. 1940, M.A. Carriker Jr (Price 1974).

Type: Holotype male deposited in USNM.

Pseudomenopon scopulacorne (Denny, 1842)

Liotheum (Menopon) scopulacorne Denny, 1842: 200, 221, pl. 18, fig. 9.

No State: *Laterallus ruber*, no data (Price 1974).

Genus *Psittacobrosus* Carriker, 1954b

Psittacobrosus amazonicus Carriker, 1963

Psittacobrosus amazonicus Carriker, 1963a: 462, figs 25–27.

No State: *Amazona autumnalis*, no data; *Pionus senilis*, no data (Price & Beer 1968).

Psittacobrosus sp.

Chihuahua: *Rhynchopsitta pachyrhyncha*, Northern Sierra Madre, no date (Stone *et al.* 2005).

Genus *Trinoton* Nitzsch, 1818

Trinoton querquedulae (Linnaeus, 1758) New Record

Pediculus querquedulae Linnaeus, 1758: 612.

Puebla: *Spatula discors*, Chietla, no date (CNIN-PHT0016); Xochiltepec 12 Dec. 1942 (CNIN-PHT0017).

Note: The host was identified as “*Querquedula discors*”.

Trinoton sp.

Tlaxcala: *Anas crecca*, Laguna de Atlangatepec, no date (Ortiz-Romero *et al.* 2014); *Mareca strepera*, Laguna de Atlangatepec, no date (Ortiz-Romero *et al.* 2014); *Spatula clypeata*, Laguna de Atlangatepec, no date (Ortiz-Romero *et al.* 2014).

Undetermined record

“*Menopon sigialitidis* D. Lámina I, fig. 5”.

Chiapas: *Ortalis vetula vetula*, Apr. 1943 (Zavaleta 1944).

Note: The single female reported by Zavaleta (1944) may belong to *Amyrsidea* but, without examining the specimen, it cannot be placed in any genus or species with certainty.

Family Ricinidae Neumann, 1890

Genus *Ricinus* De Geer, 1778

***Ricinus arcuatus* (Kellogg & Mann, 1912)**

Physostomum fasciatus var. *arcuatus* Kellogg & Mann, 1912: 65.

Baja California: *Tyrannus vociferans*, Cerros Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

***Ricinus diffusus* (Kellogg, 1896)**

Physostomum diffusum Kellogg, 1896b: 518, pl. 70, fig. 3.

Baja California: *Passerculus sanctorum*, San Benito Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Notes: One specimen of *R. diffusus* was identified by Kellogg & Mann (1912) as “*Physostomum diffusum* Kellogg”. The host was identified as “*Ammodramus sanctorum*”.

***Ricinus invadens* (Kellogg, 1899)**

Physostomum invadens Kellogg, 1899a: 50.

Chiapas: *Campylorhynchus rufinucha*, 1943 (Zavaleta 1944).

Note: Specimens of *R. invadens* were identified as “*Physostomun invadens* K.”, and the host species as “*Heleodytes rufinucha chiapensis*” by Zavaleta (1944).

***Ricinus pallens* (Kellogg, 1899)**

Physostomum pallens Kellogg, 1899a: 49, pl. 4, fig. 7.

Chiapas: *Miodynastes luteiventris*, Apr. 1942 (Zavaleta 1944); *Contopus pertinax*, 30 Jun. 1942 (CNIN-PHT0008).

Distrito Federal: *Cardellina rubra*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, 24 January 1945 (CNIN-PHT0009).

Notes: Specimens of *R. pallens* were identified as “*Physostomun pattens*” and “*Physostomun pallens*”. Zavaleta (1944) gave the host species as “*Miodynastes loteirestris*”.

***Ricinus subhastatus* (Durrant, 1906)**

Physostomum subhastatus Durrant, 1906: 528, fig. 1A.

Baja California Sur: *Kieneria crissalis albigula*, San José del Cabo, 1897, R.C. McGregor (Kellogg & Mann 1912).

Notes: Specimens of *R. subhastatus* were identified by Kellogg & Mann (1912) as “*Physostomum subhastatum* Durrant”. The host was identified as “*Pipilo albigula*”.

***Ricinus sucinaceus* (Kellogg, 1896) New Record**

Physostomum sucinaceus Kellogg, 1896b: 514, pl. 70, fig. 2.

Distrito Federal: *Empidonax* sp., Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, 13 Dec. 1942 (CNIN-PHT0010).

***Ricinus* sp.**

Distrito Federal: *Xenospiza baileyi*, La Cima, Tlalpan, no date (Oliveras de Ita 2002).

No State: *Cyanocompsa parellina*, no data (Bueter *et al.* 2009).

Genbank Accesion Numbers: AF385014, AF385033.

Genus *Trochiliphagus* Carriker, 1960

Trochiliphagus mexicanus Carriker, 1960

Trochiliphagus mexicanus Carriker, 1960: 333, fig. 9h.

Veracruz: *Phaethornis superciliosus*, Cerro Tuxtla, 10 May 1940, M.A. Carriker Jr (Carriker 1960).

Type: Holotype female deposited in USNM (64887).

Note: The host was identified as “*Phaethornis superciliosus veracruzis* Ridgway”.

Genus *Trochiloectes* Paine & Mann, 1913

Trochiloectes doratophorus (Carriker, 1903)

Physostomum duratophorum Carriker, 1903: 165, pl. 5, fig. 4.

Chiapas: *Tilmatura dupontii*, Jun. 1942 (Zavaleta 1944); no date (CNIN-PHT0019).

Note: The louse was identified as “*Trochiloectes doratophorum* C.” by Zavaleta (1944)

Trochiloectes ochoterenai Zavaleta 1943

Trochiloectes [sic] *ochoterenai* Zavaleta 1943b: 613, fig. C.

Distrito Federal: *Selasphorus rufus*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera al Desierto de los Leones (Zavaleta 1943b).

Trochiloectes sp.

Distrito Federal: *Hylocharis leucotis*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, 1942 (Zavaleta 1943a) (CNIN-PHT0007).

Notes: Specimens of *Trochiloectes* sp. were identified by Zavaleta (1943a) as “*Physostomum merulae*”, with the host given as “*Basilina leucotis*”.

Suborder Ischnocera Kellogg, 1896a

Family Philopteridae Burmeister, 1838

Genus *Acidoproctus* Piaget, 1878

Acidoproctus maximus Piaget, 1878

Acidoproctus maximus Piaget, 1878: 183, pl. 12, figs E, F.

San Luis Potosí: *Dendrocygna autumnalis autumnalis*, Tamuín, 19 Sep. 1946, C. Shaw (Carriker 1954a).

Types: Holotype male and allotype female of *Acidoproctus hopkinsi mexicanus* deposited in USNM (65423).

Note: Specimens of *A. maximus* were described by Carriker (1954a) as “*Acidoproctus hopkinsi mexicanus*, n. subsp.”.

Genus *Acronirmus* Eichler, 1953

Acronirmus albiventris (Carriker, 1963)

Hirundiniella albiventris Carriker, 1963b: 314, figs 28, 29a–b.

Distrito Federal: *Tachycineta thalassina thalassina*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones (Zavaleta 1943a) (CNIN-PHT0011).

Note: Specimens of *A. albiventris* were identified by Zavaleta (1943a) as “*Degeeriella longus*”.

Acronirmus cruscus (Carriker, 1963)

Hirundiniella cruscus Carriker 1963b: 313, figs 26, 27a–b.

Veracruz: *Tachycineta albilinea*, Tlacotalpan, 4 Feb. 1940, M.A. Carriker Jr (Carriker 1963b).

Types: Holotype male and allotype female deposited in USNM (68838).

Genus *Acutifrons* Guimarães, 1942b

Acutifrons caracarensis (Kellogg & Mann, 1912)

Nirmus caracarensis Kellogg & Mann, 1912: 59.

Baja California: *Caracara lutosa*, Guadalupe Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: The type host was given by Kellogg & Mann (1912) as “*Polyborus lentosus*”.

Acutifrons mexicanus Emerson, 1966

Acutifrons mexicanus Emerson, 1966b: 49, fig. 1.

Tamaulipas: *Caracara cheriway*, Ciudad Victoria, 22 Sep. 1922, M.A. Price (Emerson 1966b).

Types: Holotype male and allotype female deposited in USNM.

Genus *Anaticola* Clay, 1936

Anaticola mergiserrati (De Geer, 1778)

Ricinus mergiserrati De Geer, 1778: 78, pl. 4, fig. 13.

Puebla: *Aythya affinis*, Xochiltepec, 1943 (Zavaleta 1946b).

Note: Zavaleta (1946b) described this louse as the new species “*Esthiopterum cornicephala*”

Anaticola sp.

Tlaxcala: *Anas crecca*, no date; *Anas diazi*, no date; *Aythya affinis*, no date; *Mareca strepera*, no date; *Spatula clypeata*, no date; *Spatula discors*, Laguna de Atlangatepec, no date (Ortíz-Romero *et al.* 2014).

Genus *Anatoecus* Cummings, 1916a

Anatoecus dentatus (Scopoli, 1763)

Pediculus dentatus Scopoli, 1763: 383.

San Luis Potosí: *Dendrocygna autumnalis autumnalis*, Tamuín, 19 Sep. 1946, C. Shaw (Carriker 1956).

Types: Holotype male and allotype female of *Anatoecus autumnalis* deposited in USNM (65430).

Note: Specimens of *A. dentatus* were identified by Carriker (1956) as “*Anatoecus autumnalis*, n. sp.”.

Anatoecus sp.

Tlaxcala: *Anas crecca*, no date; *Aythya affinis*, no date; *Mareca strepera*, no date; *Spatula clypeata*, Laguna de Atlangatepec, no date (Ortíz-Romero *et al.* 2014).

Genus *Ardeicola* Clay, 1936

Ardeicola loculator (Giebel, 1874)

Lipeurus loculator Giebel, 1874: 228.

Veracruz: *Mycteria americana*, Tlacotalpan, 22 Jun. 1961, D.H. Janzen (Tuff 1967b).

Ardeicola nyctanassa Tuff, 1967

Ardeicola nyctanassa Tuff, 1967b: 258, figs 37–39.

Tamaulipas: *Nyctanassa violacea*, Laguna de la Costa, Tampico, 30 Jan. 1962, M.A. Price & O.H. Graham (Tuff 1967b).

Genus *Ardeiphagus* Carriker, 1949

Ardeiphagus cochlearius Carriker, 1949

Ardeiphagus cochlearius Carriker, 1949: 308, figs 12–14.

Veracruz: *Cochlearius cochlearius*, Tres Zapotes, no date (Carriker 1949).

Note: The host was identified by Carriker (1949) as “*Cochlearius cochlearius zeledoni* (Ridgway)”.

Genus *Austrophilopterus* Ewing, 1929

Austrophilopterus cancellosus (Carriker, 1903)

Docophorus cancellosus Carriker, 1903a: 132, pl. 1, fig. 4.

No State: *Ramphastos sulfuratus*, no data (Weckstein 2004).

Austrophilopterus minutus Carriker, 1950

Austrophilopterus minutus minutus Carriker, 1950b: 186, figs 44–46.

Veracruz: *Aulacorhynchus prasinus prasinus*, Volcán San Martín, 19 Apr. 1940, M.A. Carriker Jr (Carriker 1950b).

Types: Holotype male and allotype female deposited in USNM (68567).

Austrophilopterus subsimilis Carriker, 1950

Austrophilopterus cancellosus subsimilis Carriker, 1950b: 166, figs 4–6.

Chiapas: *Ramphastos sulfuratus sulfuratus*, Río de la Playa, 18 Mar. 1943, W.A. Weber (Carriker 1950b).

No State: *Ramphastos sulfuratus*, no data (Johnson *et al.* 2001; 2002c)

Types: Holotype male and allotype female deposited in USNM (68549).

Genbank Accession Number: AF447188.1, AF4444850.

Austrophilopterus torquatus Carriker, 1950

Austrophilopterus cancellosus torquatus Carriker, 1950b: 174, figs 22, 23.

No State: *Pteroglossus torquatus*, no data (Johnson *et al.* 2002c).

Genbank Accession Number: AF447187.1, AF4444849.

Genus *Bizarrifrons* Eichler, 1938

Bizarrifrons clayae Eichler, 1938

Bizarrifrons clayi [sic] Eichler, 1938: 228, figs 3c, 3f, 3h.

Bizarrifrons clayae Eichler, 1938; Hopkins & Clay 1952: 50.

No state: *Psarocolius montezuma*, no data (Eichler 1938; Valim & Palma 2012; Gustafsson & Bush 2017).

Type: Holotype male in NHML (10846).

Note: The host was given as “*Gymnostinops montezuma*” by Eichler (1938).

Bizarrifrons meinertzhageni Eichler, 1938

Bizarrifrons meinertzhageni Eichler, 1938: 232, figs 2c, 3d, 3g.

No state: *Quiscalus mexicanus*, no data ((Eichler 1938; Valim & Palma 2012; Gustafsson & Bush 2017).

Type: Holotype male in NHML (10848).

Genus *Brueelia* Kéler, 1936

Brueelia audax (Kellogg, 1899)

Nirmus audax Kellogg, 1899a: 25, pl. 2, fig. 8.

Baja California: *Auriparus flaviceps*, Nov. 1896, J.F. Abbott (Kellogg 1899a; Gustafsson & Bush 2017).

Coahuila: *Auriparus flaviceps ornatus*, 25 miles S of Allende, 6 Apr. 1958, C.A. Ely (Gustafsson & Bush 2017).

Type: Holotype female in EMEC.

***Brueelia deficiens* (Piaget, 1885)**

Nirmus deficiens Piaget, 1885: 23, pl. 3, fig. 3.

Coahuila: *Aphelocoma coerulescens*, Las Vacas, R.E.E. & K.C.E. (Williams 1986).

***Brueelia dorsale* Williams, 1983**

Brueelia dorsale Williams, 1983: 600, figs 1–3.

Coahuila: *Toxostoma crissale*, Las Vacas, 3–16 Jul. 1958, C.A. Ely (Williams 1983; Gustafsson & Bush 2017); *Toxostoma curvirostre*, Las Vacas, no date (Williams 1983).

Chihuahua: *Toxostoma curvirostre*, no date (Williams 1983).

Note: The type host was given as “*Toxostoma dorsale*” by Williams (1983).

***Brueelia flinti* Cicchino & Castro, 1996**

Brueelia flinti Cicchino & Castro, 1996: 27, figs 82–86, 99, 107, 115–117.

Veracruz: *Quiscalus mexicanus*, Tlacotalpan, 8 Feb. 1940, M.A. Carriker Jr (Cicchino & Castro 1996); no date (Gustafsson & Bush 2017).

***Brueelia lautiuscula* (Kellogg & Chapman, 1899)**

Nirmus lautiusculus Kellogg & Chapman, 1899: 90, pl. 6, fig. 9.

Baja California: *Amphispiza belli*, San Martin Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: One specimen of *B. lautiuscula* was identified by Kellogg & Mann (1912) as “*Nirmus ductilis* Kellogg and Chapman”.

***Brueelia ornatissima* (Giebel, 1874)**

Nirmus ornatissimus Giebel, 1874: 144.

Chiapas: *Calocitta formosa azurea*, Cacahoatán, 4 Jun. 1943 (Zavaleta 1944).

Note: Specimens of *B. ornatissima* were identified by Zavaleta (1944) as “*Degeeriella illustris* K.”. This record is most likely the result of a contamination because *Brueelia ornatissima* is not known to parasitise any species of the family Corvidae (see Gustafsson & Bush 2017).

***Brueelia peninsularis* (Kellogg, 1899)**

Nirmus peninsularis Kellogg, 1899a: 21, pl. 2, fig. 9.

Baja California: *Phainopepla nitens lepida*, Santa Anita, 19 May 1896, J.F. Abbott (Kellogg 1899a; Gustafsson & Bush 2017).

Coahuila: *Phainopepla nitens nitens*, 52 miles S of Monclova, 24 Dec. 1957, C.A. Ely; Las Vacas, 5 Nov. 1958, C.A. Ely (Gustafsson & Bush 2017).

Types: Syntypes males and females in EMEC.

***Brueelia straminea* (Denny, 1842)**

Nirmus stramineus Denny, 1842: 53, 139, pl. 8, fig. 9.

San Luis Potosí: *Sphyrapicus varius*, Cerro Conejo, R. Newman (Carriker 1956).

Note: Gustafsson & Bush (2017) believe that the *Brueelia* populations from all North American woodpeckers belong to other species, not *B. straminea*. Considering the absence of a description of *Brueelia* from *Sphyrapicus varius*, we keep this record as published by Carriker (1956), but it is likely a misidentification.

***Brueelia vulgata* (Kellogg, 1896)**

Nirmus vulgatus Kellogg, 1896b: 496, pl. 67, fig. 5.

Distrito Federal: *Haemorhous mexicanus*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones (Zavaleta 1943a); *Melozone fusca fusca*, Pueblo

de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, (Zavaleta 1943a); *Pipilo maculatus macronyx*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, (Zavaleta 1943a); *Spizella passerina mexicana*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, (Zavaleta 1943a); *Vireo huttoni*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, (Zavaleta 1943a).

Note: Specimens of *B. vulgata* were identified by Zavaleta (1943a) as “*Degeeriella vulgatus*”. Some of the host-louse records given above may be the result of misidentifications of the lice involved but, without re-examining them, we cannot make any comment about their correct identities.

Genus *Carduiceps* Clay & Meinertzhagen, 1939b

***Carduiceps clayae* Timmermann, 1954**

Carduiceps clayae Timmermann, 1954b: 42.

Baja California: *Limosa fedoa*, Playa Maria Bay, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: One specimen of *C. clayae* was identified by Kellogg & Mann (1912) as “*Nirmus complexivus* Kellogg and Chapman”.

***Carduiceps zonarius* (Nitzsch [In Giebel], 1866)**

Nirmus zonarius Nitzsch [In Giebel], 1866: 374.

Yucatán: *Calidris alba*, 6.5–13 km. WSW Sisal (Klaas 1968).

Genus *Chelopistes* Kéler, 1939

***Chelopistes dendrortyx* (Carriker, 1945)**

Trichodomedea dendrortyx dendrortyx Carriker, 1945a: 384, figs 54, 55.

Tamaulipas: *Dactylortyx thoracicus*, May–June 1949, W.B. Heed (Carriker 1967a).

No State: *Dendrortyx macroura macroura*, Aug. 1899 (Carriker 1945a).

Types: Holotype male and allotype female of *Trichodomedea dendrortyx similis* deposited in NHML; holotype male of *T. dendrortyx subsimilis* deposited in USNM (68245).

Note: Other specimens of *C. dendrortyx* were described by Carriker (1945a) as “*Trichodomedea dendrortyx similis*, new subspecies”, and as “*Trichodomedea dendrortyx subsimilis*, new subspecies” by Carriker (1967a).

***Chelopistes meleagridis* (Linnaeus, 1758)**

Pediculus meleagridis Linnaeus, 1758: 613.

Coahuila: *Meleagris gallopavo*, Sierra del Burro, no date (Salas-Westphal 2000).

Nuevo León: no host, no date (Quiroz- Martínez & Cantu 1995).

Oaxaca: *Meleagris gallopavo*, Coastal Region, no date (Camacho-Escobar *et al.* 2014).

Yucatán: *Meleagris gallopavo*, Maní, no date; Timucuy, no date (Canul *et al.* 2014); Dzibzibachi, no date; Huhi, no date; Samahil, no date (Canul *et al.* 2016); Cepeda, no date; Motul, no date (Canul *et al.* 2014; Canul *et al.* 2016).

***Chelopistes mexicanus* (Carriker, 1967)**

Trichodomedea mexicanus Carriker, 1967a: 29, figs 24–27.

No State: *Odontophorus guttatus*, “Veraguas”, no date (Carriker 1967a).

Types: Holotype male deposited in USNM (68247).

Note: Veraguas is located in Panamá, but Carriker (1967a) gave it as from “Mexico”. We have included this louse species here because the host, *Odontophorus guttatus*, also occurs in Mexico.

***Chelopistes oculari* (Carriker, 1945)**

Trichodomedea oculari oculari Carriker, 1945a: 388, fig. 61.

No State: *Penelope purpurascens purpurascens*, no data (Johnson *et al.* 2001).

Genbank Accession Number: AF348855.1.

***Chelopistes texanus* Emerson, 1960**

Chelopistes texanus Emerson, 1960b: 195, figs 1–3.

Tamaulipas: *Ortalis vetula mccalli*, Zamorina, 10 May 1949, W.B. Heed; Wibank Rio, 18 Feb. 1949, W.B. Heed (Emerson 1960b).

Veracruz: *Ortalis vetula mccalli*, Río Atoyac, 12 Apr. 1947, E.P. Edwards (Emerson 1960b).

Yucatán: *Ortalis vetula vetula*, no date (Emerson 1960b).

No State: *Ortalis vetula*, no data (Johnson *et al.* 2001; Johnson *et al.* 2002c).

Type: Holotype male deposited in USNM.

Genbank Accession Numbers: AF348857.1

Genus *Cirrophthirius* Timmermann, 1953

***Cirrophthirius testudinarius* (Children, 1836)**

Nirmus testudinarius Children, 1836: 538.

San Luis Potosí: *Recurvirostra americana*, Ébano, 6 Nov. 1946, C. Shaw (Carriker 1954a).

Types: Holotype male and allotype female of *Cummingsiella inexpectata* deposited in USNM (65429).

Note: Specimens of *C. testudinarius* were described by Carriker (1954a) as “*Cummingsiella inexpectata* n. sp.”

Genus *Colinicola* Carriker, 1945a

***Colinicola philortyx* Carriker, 1967**

Colinicola philortyx Carriker, 1967c: 46, figs 1–3.

No State: *Philortyx fasciatus*, SW Mexico, 7 Nov. 1954 (Carriker, 1967c).

Types: Holotype female deposited in USNM (68239).

Genus *Columbicola* Ewing, 1929

***Columbicola adamsi* Clayton & Price, 1999**

Columbicola adamsi Clayton & Price, 1999: 681, figs 42, 43.

Campeche: *Patagioenas speciosa*, 13–14 Mar. 1998, D.H. Clayton (Clayton & Price 1999); no date (Malenke *et al.* 2009).

Oaxaca: *Patagioenas speciosa*, 26 Mar. 1961 (Clayton & Price 1999).

Quintana Roo: *Patagioenas speciosa*, 5 Jun. 1969 (Clayton & Price 1999).

No State: *Patagioenas speciosa*, no data (Johnson *et al.* 2007).

Type: Holotype male deposited in OSUC.

Genbank Accession Numbers: FJ656470, AF278614, EF678887.

***Columbicola baculoides* (Paine, 1914)**

Lipeurus baculoides Paine, 1914: 174, fig. 95.

No State: *Zenaida macroura*, no data (Hill & Tuff 1978).

***Columbicola columbae* (Linnaeus, 1758)**

Pediculus columbae Linnaeus, 1758: 614.

Colima: *Anous stolidus*, Islas Revillagigedo, no date (Ancona 1934).

Estado de México: *Columba livia*, Centro de Enseñanza Agropecuaria de la FES-Cuautitlán, no date (Nieves-García 2009).

Nuevo León: no host, no date (Quiroz-Martínez & Cantu 1995).

No State: *Columba livia*; *Mimus polyglottos*; *Tringa* sp. (Ancona 1934).

Distrito Federal: *Columba livia*, Chapultepec, no date (CNIN-PHT0002)

Note: The hosts given by Ancona (1934) as *Anous stolidus*, *Mimus polyglottos* and *Tringa* sp. (as “*Totanus calidris*”) are all the result of contaminations because none of those birds are regular and natural hosts for any species of *Columbicola* (see Price *et al.* 2003).

***Columbicola extinctus* Malcomson, 1937**

Columbicola extinctus Malcomson, 1937: 55, fig. 3.

No State: *Patagioenas fasciata*, no data (Clayton & Price 1999).

***Columbicola gracilicapitis* Carriker, 1955**

Columbicola gracilicapitis Carriker, 1955a: 50

Campeche: *Leptotila jamaicensis*, no date; *Leptotila plumbeiceps*, no date; *Leptotila verreauxi fulviventris*, no date (Johnson *et al.* 2002a).

No State: *Leptotila jamaicensis*, no date; *Leptotila plumbeiceps*, no date; *Leptotila verreauxi*, no date (Clayton & Price 1999; Johnson *et al.* 2001; Johnson *et al.* 2007).

Genbank Accession Numbers: AF414718, AF414719, AF414720; AF414721, AF414722, AF414723; AF414724.

***Columbicola macrourae* (Wilson, 1941)**

Esthiopterum (Columbicola) macrourae Wilson, 1941: 262, figs 5–8.

Campeche: *Geotrygon montana*, no date; *Leptotila plumbeiceps*, no date (Johnson *et al.* 2002a; Malenke *et al.* 2009).

Yucatán: *Zenaida aurita salvadorii*, 1.5 mi. S Sisal (Klaas 1968); *Leptotila verreauxi fulviventris*, no date (Johnson *et al.* 2002b; Malenke *et al.* 2009).

No State: *Geotrygon montana*, no data; *Leptotila plumbeiceps*, no data; *Leptotila verreauxi*, no data; *Zenaida asiatica*, no data (Clayton & Price 1999; Johnson *et al.* 2007); *Zenaida macroura*, no data (Hill & Tuff 1978).

Genbank Accession Numbers: AF414735, AF414736, AF414737, AF414738, AF414739, FJ656431, FJ656432; AF414740, AF414741, EF678889, EF678891, FJ656435; AF414750, AF414751, EF678890.

***Columbicola passerinae* (Wilson, 1941)**

Esthiopterum (Columbicola) macrourae Wilson, 1941: 259, figs 1–4.

Campeche: *Claravis pretiosa*, no date (Johnson *et al.* 2002a).

Colima: *Columbina passerina socorroensis*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Yucatán: *Columbina passerina*, no date (Johnson *et al.* 2002a).

No State: *Columbina talpacoti*, no data (Clayton & Price 1999); *Claravis pretiosa*, no data; *Columbina passerina*, no data (Clayton & Price 1999; Johnson *et al.* 2007).

Notes: Specimens of *C. passerinae* were identified by Kellogg & Mann (1912) as “*Lipeurus baculus* Nitzsch”. The locality (Socorro Island) was recorded as belonging to the State of Baja California; however, this island is in the Archipelago of Revillagigedo located in the State of Colima (INEGI 2014).

Genbank Accession Numbers: AF414732, AF414733, AF414734; AF414727, AF414728.

***Columbicola* sp.**

Campeche: *Patagioenas flavirostris flavirostris*, 6–7.5 km. W Escárcega (Klaas 1968).

Genus *Corvonirmus* Eichler, 1944

***Corvonirmus afzali* (Ansari, 1957)**

Brüelia afzali Ansari, 1957: 154, figs 14, 36, 37, 83–87.

Tamaulipas: *Corvus cryptoleucus*, 28 Apr. 1985, A.R. Philips (Gustafsson & Bush 2017).

***Corvonirmus latifasciatus* (Piaget, 1880)**

Nirmus latifasciatus Piaget, 1880: 143, pl. 11, fig. 11.

Baja California: *Haematopus palliatus frazari*, San Martin Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: One specimen of *C. latifasciatus* was identified by Kellogg & Mann (1912) as “*Nirmus latifasciatus* Piaget”. The host record is most likely the result of a contamination because no species of *Corvonirmus* is a regular and natural parasite of any oystercatcher species (see Price *et al.* 2003).

Genus *Craspedorrhynchus* Kéler, 1938b

***Craspedorrhynchus brevicapitis* Carriker, 1956**

Craspedorrhynchus brevicapitis Carriker, 1956: 26, figs 13–15.

San Luis Potosí: *Rupornis magnirostris griseocauda*, Xilitla, 12 Feb. 1947, R. Newman (Carriker 1956).

Types: Holotype female and allotype male deposited in LSAM.

***Craspedorrhynchus genitalis* Carriker, 1956**

Craspedorrhynchus genitalis Carriker, 1956: 29, figs 19, 20.

San Luis Potosí: *Geranospiza caerulescens nigra*, Hacienda Capulín, 1 Jul. 1947, R. Newman (Carriker 1956).

Types: Holotype female and allotype male deposited in LSAM.

***Craspedorrhynchus platystomus* (Burmeister, 1838)**

Docophorus platystomus Burmeister, 1838: 426.

Baja California: *Haliaeetus leucocephalus*, Todos Santos Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *C. platystomus* were identified by Kellogg & Mann (1912) as “*Docophorus platystomus* Nitzsch”.

***Craspedorrhynchus tubulus* Carriker, 1956**

Craspedorrhynchus tubulus Carriker, 1956: 26, figs 16, 17.

San Luis Potosí: *Busarellus nigricollis nigricollis*, Tamuín, 12 Feb. 1947, R. Newman (Carriker 1956).

Types: Holotype female and allotype male deposited in LSAM.

***Craspedorrhynchus* sp.**

Edomex: *Buteo jamaicensis*, Centro de Investigación y Conservación de Vida Silvestre (CIVS) Los Reyes, La Paz, no date (Oliveira *et al.* 2011); *Buteo swainsoni*, Centro de Investigación y Conservación de Vida Silvestre, no date (CIVS) Los Reyes, La Paz (Oliveira *et al.* 2011).

Quintana Roo: *Buteo plagiatus*, 4 km. NNE Felipe Carrillo Puerto, no date (Klaas 1968).

Notes: Specimens of *Craspedorrhynchus* sp. were identified by Klaas (1968) as “*Craspedorhynchus* sp.” and the host was identified as “*Buteo nitidus plagiatus*”.

Genus *Cuclotogaster* Carriker, 1936

***Cuclotogaster heterographus* (Nitzsch [In Giebel], 1866)**

Lipeurus heterographus Nitzsch [In Giebel], 1866: 381.

Coahuila: *Meleagris gallopavo*, Sierra del Burro, no date (Salas-Westphal 2000).

Nuevo León: no host, no date (Quiroz- Martínez & Cantu 1995).

Veracruz: “Pollito”, Acayuca, 1942 (CNIN). **New locality record.**

Note: “Acayuca” probably refers to Acayucan.

Genus *Cuculicola* Clay & Meinertzhagen, 1939a

***Cuculicola atopus* (Kellogg, 1899)**

Nirmus atopus Kellogg, 1899a: 18, pl. 2, fig. 4.

San Luis Potosí: *Piaya cayana*, Xilitla, 11 Feb. 1947, R.J. Newman (Carriker 1954a).

Notes: Specimens of *C. atopus* were identified by Carriker (1954a) as “*Cuculicola atopa* (Kellogg)”.

***Cuculicola splendidus* (Kellogg, 1899)**

Nirmus splendidus Kellogg, 1899a: 16, pl. 2, figs 3, 6.

Baja California: *Caracara cheriway*, no date, J.F. Abbott (Kellogg 1899a).

Notes: The record of *Nirmus splendidus* by Kellogg & Chapman (1902a) from “(Tampico, Mexico)” was incorrectly taken from Kellogg (1899b), where the locality is correctly given as “Baja California” (INEGI 2014). Also, the record of a species of *Cuculicola* from *Caracara cheriway* is most likely the result of a contamination because there is no species of *Cuculicola* parasitising any species in the order Falconiformes (see Price *et al.* 2003).

Genus *Cuculoecus* Ewing, 1926

***Cuculoecus coccygii* (Osborn, 1896)**

Docophorus coccygii Osborn, 1896: 222, fig. 143.

Baja California: *Coccyzus americanus occidentalis*, no date (Kellogg, 1899a).

Note: Specimens of *C. coccygii* were identified by Kellogg (1899a) as “*Docophorus latifrons* Var. *occidentalis* Kellogg”.

Genus *Degeeriella* Neumann, 1906

***Degeeriella fulva* (Giebel, 1874)**

Nirmus fulvus Giebel, 1874: 124

Estado de Mexico: *Parabuteo unicinctus* and *Buteo jamaicensis*, Centro de Investigación y Conservación de Vida Silvestre (CIVS) Los Reyes, La Paz, no date, (Oliveira *et al.* 2011).

***Degeeriella fusca* (Denny, 1842)**

Nirmus fuscus Denny, 1842: 49, 118, pl. 9, fig. 8.

Baja California: *Buteo jamaicensis borealis*, no date; *Falco sparverius peninsularis*, no date; *Falco peregrinus anatum*, no date, J.F. Abbott (Kellogg 1899a).

Note: Specimens of *D. fusca* were identified by Kellogg (1899a) as “*Nirmus fuscus* Nitzsch”. All three records of *D. fusca* from the above hosts in Kellogg (1899a) are most likely misidentifications of *D. fulva* and *D. rufa* (see Price *et al.* 2003).

***Degeeriella pricei* Emerson, 1966**

Degeeriella pricei Emerson, 1966a: 21, figs 1, 2.

Tamaulipas: *Caracara cheriway*, Ciudad Victoria, 8 Jul. 1962, M.A. Price (Emerson 1966a).

Types: Holotype male and allotype female deposited in USNM.

***Degeeriella rufa* (Burmeister, 1838)**

Nirmus rufus Burmeister, 1838: 430.

San Luis Potosí: *Falco mexicanus*, San Luis Potosí, 12 Dec. 1946, C. Shaw (Carriker 1956).

Types: Holotype female and allotype male of *Degeeriella falconoidea* deposited in USNM (65409).

Note: Specimens of *D. rufa* were identified by Carriker (1956) as “*Degeeriella falconoidea* n. sp.”.

Genus *Discocorpus* Carriker, 1936

***Discocorpus furculus* Carriker, 1944**

Discocorpus cephalosus furculus Carriker, 1944a: 191, figs 23d–f.

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68384).

***Discocorpus mexicanus* Carriker, 1954**

Discocorpus cephalosus mexicanus Carriker, 1954a: 206, fig. 24.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Naranjo, 15 Feb. 1948, G.H. Lowery (Carriker 1954a).

Types: Holotype male deposited in USNM (65428).

Genus *Docophoroides* Giglioli, 1864

***Docophoroides ferrisi* Harrison, 1937**

Docophoroides ferrisi Harrison, 1937: 44, fig. 7.

Baja California Sur: *Phoebastria nigripes*, Magdalena Bay, off Cabo San Lucas, 1897, R.C. McGregor (Kellogg & Mann 1912).

Colima: *Phoebastria nigripes*, Clarion Island, 1901, R. Beck (Kellogg 1906).

Note: Specimens of *D. ferrisi* were misidentified as “*Eurymetopus brevis* Dufour” by Kellogg (1906), and as “*Eurymetopus taurus* Nitzsch” by Kellogg & Mann (1912).

Genus *Formicaphagus* Carriker, 1957

***Formicaphagus* sp.**

No State: *Thamnophilus doliatus*, no data (Johnson *et al.* 2002b).

Genbank Accession Number: AY149403.1.

Genus *Formicaricola* Carriker, 1957

***Formicaricola analoides* Carriker, 1957**

Formicaricola analoides Carriker, 1957: 431, figs 1c, 7d, 9c.

Veracruz: *Formicarius moniliger*, Cerro Tuxtla, 5 May 1940, M.A. Carriker Jr (Carriker 1957).

No State: *Formicarius moniliger*, no data (Price & Clayton 1995; Johnson *et al.* 2002b).

Genbank Accession Number: AY149402.1 from Johnson *et al.* (2002b).

Type: Holotype male of *Formicaricola mexicana* in USNM (68687).

Note: Carriker (1957) also described “*Formicaricola mexicana* new species” from “*Formicarius analis moniliger* Sclater”, but this species is now regarded as a junior synonym of *F. analoides* (see Price *et al.* 2003).

Genus *Fulicoffula* Clay & Meinertzhagen, 1938b

***Fulicoffula heliornis* Carriker, 1953**

Fulicoffula heliornis Carriker, 1953: 155, figs 1–3.

San Luis Potosí: *Heliornis fulica*, Río Huichihuayán, near ferry on road to Xilitla, 16 Jul. 1946, R.J. Newman (Carriker 1953).

Types: Types, female and male, in LSAM.

Genus *Goniocotes* Burmeister, 1838

***Goniocotes gallinae* (De Geer, 1778)**

Ricinus gallinae De Geer, 1778: 79, pl. 4, fig. 15.

Distrito Federal: *Gallus gallus*, no date (Ancona 1935b).
Estado de Mexico: *Gallus gallus*, Hacienda de Santa Bárbara, no date (Ancona 1935b).
Nuevo León: no host, no date (Quiroz- Martínez & Cantu 1995).
Puebla: *Gallus gallus*, Tehuacán, no date (Ancona 1935b).
San Luis Potosí: *Gallus gallus*, no date (Ancona 1935b).
Tabasco: *Gallus gallus*, Villahermosa, no date (Ancona 1935b).
Veracruz: *Gallus gallus*, Córdoba, no date (Ancona 1935b).
Note: Specimens of *G. gallinae* were identified by Ancona (1935b) as “*Goniocotes hologaster* Nitzsch”.

Genus *Goniodes* Nitzsch, 1818

Goniodes gigas Taschenberg, 1879

Goniodes gigas Taschenberg, 1879: 104, pl. 1, fig. 10.

Nuevo León: no host, no date (Quiroz-Martínez & Cantu 1995).

Genus *Guimaraesiella* Eichler, 1949

Guimaraesiella abbasi (Carriker, 1956)

Brüelia melanococca abbasi Carriker, 1956: 119, figs 66b, 67.

San Luis Potosí: *Thraupis abbas*, Xilitla, 27 Jan. 1947, R. Newman (Carriker 1956; Gustafsson & Bush 2017).

Types: Holotype female deposited in LSAM.

Guimaraesiella cicchinoi (Valim & Weckstein, 2011)

Brueelia cicchinoi Valim & Weckstein, 2011: 6, figs 7–12, 15, 16.

Campeche: *Trogon massena*, 24 km S Sivituc, 6 Mar, 1998, D.H. Clayton; *Trogon melanocephalus*, 24 km S Sivituc, 9 Mar, 1998, D.H. Clayton (Valim & Weckstein 2011).

No State: *Trogon massena*, no data; *Trogon melanocephalus*, no data (Johnson *et al.* 2002b).

Genbank Accesion Numbers: AY149382, AY149383 from Johnson *et al.* (2002b).

Guimaraesiella polyglotta (Williams, 1983)

Brueelia polyglotta Williams, 1983: 602, figs 7–9.

Distrito Federal: *Mimus polyglottos*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones (Zavaleta 1943a) (CNIN-PHT0015).

Note: Specimens of *G. polyglotta* were identified by Zavaleta (1943a) as “*Degeeriella interpositus*”.

Guimaraesiella saltatora (Carriker, 1956)

Brüelia saltatora Carriker, 1956: 119, figs 64–66a

San Luis Potosí: *Saltator coerulescens vigorsii*, Xilitla, 22 Jan. 1947, R. Newman (Carriker 1956; Gustafsson & Bush 2017).

Types: Holotype male deposited in LSAM; allotype female in USNM (65411).

Genus *Halipeurus* Thompson, 1936

Halipeurus pelagicus (Denny, 1842)

Lipeurus pelagicus Denny, 1842: 58, 173, pl. 14, fig. 2.

Colima: *Fregata magnificens*, Clarion Island, 1901, R. Beck (Kellogg 1906).

Baja California: *Hydrobates leucorhous*, Coronados Islands, 19 Jun. 1913, A.B. Howell (Palma 2011).

Note: Specimens of *Halipeurus pelagicus* were identified by Kellogg (1906) as “*Lipeurus exiguus* Kellogg & Kuwana”. The host association of *H. pelagicus* with *Fregata magnificens* is most likely the result of a contamination because this louse does not parasitise any species of *Fregata* (see Price *et al.* 2003; Palma 2011).

***Halipeurus placodus* Edwards, 1961**

Halipeurus (Halipeurus) placodus Edwards, 1961: 141, figs 3E–7E.

Colima: *Puffinus auricularis*, Clarion Island, 1901, R. Beck (Kellogg 1906); Clarion Island, no date, Edwards (1961).

Note: Specimens of *H. placodus* were identified by Kellogg (1906) as “*Lipeurus exiguus* Kellogg” and as “*Lipeurus limitatus* Kellogg”.

***Halipeurus raphanus* Timmermann, 1961**

Halipeurus raphanus Timmermann, 1961: 415, fig. 11.

Baja California: *Hydrobates macrodactylus*, Guadalupe Island, 1897, R.C. McGregor (Kellogg & Mann 1912); Guadalupe Island, no date (Timmermann 1961; Palma 2011).

Type: Holotype male deposited in NHML.

Note: Specimens of *H. raphanus* were identified by Kellogg & Mann (1912) as “*Lipeurus diversus* Kellogg” and “*Lipeurus limitatus* Kellogg”.

Genus *Harrisoniella* Bedford, 1929

***Harrisoniella copei* Timmermann, 1969**

Harrisoniella copei Timmermann, 1969: 247, figs 2a, 3.

Colima: *Phoebastria nigripes*, Clarion Island, 1901, R. Beck (Kellogg 1906).

Note: Specimens of *H. copei* were identified by Kellogg (1906) as “*Lipeurus ferox* Giebel” (see Palma & Pilgrim 1984).

Genus *Hecatrishula* Gustafsson & Bush, 2017

***Hecatrishula cryptoleuca* (Ansari, 1957)**

Brüelia cryptoleucus Ansari, 1957: 164, figs 19, 46, 47, 105–108.

Coahuila: *Corvus corax*, Las Vacas, no date, R.E.E. & K.C.E. (Williams 1986); *Corvus corax sinuatus*, Las Vacas, 5 Jul. 1958, C.A. Ely (Gustafsson & Bush 2017).

Note: Williams (1986) identified specimens of *Hecatrishula cryptoleuca* as “*Brueelia biocellata* (Piaget, 1880)”, but Gustafsson & Bush (2017) argued that *Brueelia biocellata* (now *Hecatrishula biocellata*) only parasitises species of the magpie genus *Pica* Brisson.

Genus *Heptapsogaster* Carriker, 1936

***Heptapsogaster acutiventris* Clay, 1937**

Heptapsogaster temporalis acutiventris Clay, 1937: 135, fig. 4a, pl. 1, figs 1, 2.

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 29 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

No State: *Crypturellus cinnamomeus mexicanus*, no date (Clay 1937).

Type: Holotype male in NHML (2882). Holotype male and allotype female of *Heptapsogaster temporalis boucardi* deposited in USNM (68368).

Note: Other specimens of *H. acutiventris* were described by Carriker (1944a) as “*Heptapsogaster temporalis boucardi*, new subspecies”.

***Heptapsogaster minutus* (Carriker, 1903)**

Goniodes minutus Carriker, 1903: 155, pl. 4, figs 1, 2.

Veracruz: *Tinamus major percautus*, Cerro Tuxtla, 23 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female of *Heptarthrogaster minutus mexicanus* deposited in USNM (68380).

Note: Specimens of *H. minutus* were described by Carriker (1944a) as “*Heptarthrogaster minutus mexicanus*, new subspecies”.

***Heptapsogaster modestae* Carriker, 1944**

Heptapsogaster mandibularis modestae Carriker, 1944a: 141, figs 11b,c.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Río Axtla, 21 Apr. 1947, R.J. Newman (Carriker 1954a)

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Type: Holotype male of *Heptapsogaster mandibularis cinnamomeus* deposited in USNM (65437).

Note: Specimens of *H. modestae* were described by Carriker (1954a) as “*Heptapsogaster mandibularis cinnamomeus*, n. subsp.”.

***Heptapsogaster tapicollae* Carriker, 1944**

Heptapsogaster mandibularis tapicollae Carriker, 1944a: 143, figs 11d–g.

Veracruz: *Crypturellus soui meserythrus*, Cerro Tuxtla, 8 May 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68357).

***Heptapsogaster tuxtlae* Carriker, 1944**

Heptapsogaster inexpectata tuxtlae Carriker, 1944a: 153, figs 14a–d.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Río Axtla, 21 Apr. 1947, R.J. Newman (Carriker 1954a).

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68364). Holotype male and allotype female of *Heptapsogaster inexpectata potosi* deposited in USNM (65438).

Note: Other specimens of *H. tuxtlae* were described by Carriker (1954a) as “*Heptapsogaster inexpectata potosi*, n. subsp.”.

Genus *Ibidoecus* Cummings, 1916a

***Ibidoecus bimaculatus* (Mjöberg, 1910)**

Docophorus bimaculatus Mjöberg, 1910: 125, figs 70–72.

San Luis Potosí: *Eudocimus albus*, Tamuín, 16 Sep. 1946, C. Shaw (Carriker 1954a).

***Ibidoecus iberoamericanus* Eichler, 1943**

Ibidoecus iberoamericanus Eichler, 1943b: 5.

San Luis Potosí: *Platalea ajaja*, Pujal, 30 Oct. 1946, C. Shaw (Carriker 1954a).

***Ibidoecus scolopaceus* Carriker, 1947**

Ibidoecus scolopaceus scolopaceus Carriker, 1947a: 131, figs 17–19.

Veracruz: *Aramus guaranaa dolosus*, Tres Zapotes, no date (Carriker 1947a).

Types: Holotype male and allotype female of *Ibidoecus scolopaceus carauí* deposited in USNM (68522).

Note: Other specimens of *I. scolopaceus* were described by Carriker (1947a) as “*Ibidoecus scolopaceus carauí* new subspecies”.

Genus *Kelloggia* Carriker, 1903

***Kelloggia boucardi* (Carriker, 1944)**

Hypocrypturellus coniceps boucardi Carriker, 1944a: 226, fig. 29b.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Naranjo, 15 Feb. 1948, G.H. Lowery (Carriker 1954a).

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68406). Holotype male of *Austrokelloggia coniceps cinnamomea* deposited in USNM (65436).

Note: Other specimens of *K. boucardi* were described as “*Austrokelloggia coniceps cinnamomea* n. subsp.” by Carriker (1954a).

***Kelloggia mexicanus* Carriker, 1944**

Kelloggia brevipes mexicanus Carriker, 1944a: 218, figs 28j–l

Veracruz: *Tinamus major percautus*, Tres Zapotes, 8 Apr. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68401).

Genus *Lipeurus* Nitzsch, 1818

***Lipeurus caponis* (Linnaeus, 1758)**

Pediculus caponis Linnaeus, 1758: 614.

Coahuila: *Meleagris gallopavo*, Sierra del Burro, no date (Salas-Westphal 2000).

Nuevo León: no host, no date (Quiroz- Martínez & Cantu 1995).

Yucatán: *Meleagris gallopavo*, Timucuy, no date; Maní, no date (Canul *et al.* 2014); Cepeda, no date; Motul, no date (Canul *et al.* 2014; 2016); Dzibzibachi, no date; Huhi, no date; Samahil, no date (Canul *et al.* 2016).

Note: The primary host of *Lipeurus caponis* is the chicken, *Gallus gallus*. Records of *L. caponis* from *Meleagris gallopavo* may be due to the human practice of mixing chickens with other poultry in captivity.

Genus *Lunaceps* Clay & Meinertzhagen, 1939b

***Lunaceps drosti* Timmermann, 1954**

Lunaceps drosti Timmermann, 1954c: 627, fig. 1b.

Baja California: *Calidris virgata*, San Gerónimo Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *L. drosti* were identified by Kellogg & Mann (1912) as “*Nirmus actophilus* Kellogg and Chapman”.

***Lunaceps actophilus* (Kellogg & Chapman, 1899)**

Nirmus actophilus Kellogg & Chapman, 1899: 78, pl. 6, fig. 4.

Yucatán: *Calidris alba*, 6.5–13 km. WSW Sisal (Klaas 1968).

Note: Specimens of *L. actophilus* were identified by Klaas (1968) as “*Lunaceps holophaeus actophilus*”.

Genus *Megaginus* Carriker, 1936

***Megaginus emarginatus* Carriker, 1936**

Megaginus emarginatus emarginatus Carriker, 1936: 98, pl. 10, figs 3, 3a–c.

Veracruz: *Crypturellus soui meserythrus*, Tres Zapotes, 26 Feb. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female of *Megaginus emarginatus lataclypeus* deposited in USNM (68347).

Note: Other specimens of *M. emarginatus* were described by Carriker (1944a) as “*Megaginus emarginatus lataclypeus*, new subspecies”.

Genus *Megapeostus* Carriker, 1936

***Megapeostus arcaeeps* (Clay, 1937)**

Heterogoniodes arcaeeps Clay, 1937: 152, fig. 11.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Río Axtla, 21 Apr. 1947, R.J. Newman (Carriker 1954a).

No State: *Crypturellus cinnamomeus mexicanus* no data (Clay 1937).

Type: Holotype male deposited in the NHML.

Note: Specimens of *M. arcaeeps* were identified by Carriker (1954a) as “*Heterogoniodes arcaeeps* Clay”.

***Megapeostus multiplex* Clay, 1937**

Megapeostus multiplex multiplex Clay 1937: 150, text figs 9c, 10a; pl. 3, fig. 2.

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

No State: *Crypturellus boucardi boucardi*, no data (Clay 1937).

***Megapeostus secundus* Clay, 1937**

Megapeostus multiplex secundus Clay 1937: 150, figs 9b, 10b.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Naranjo (Carriker 1954a).

Veracruz: *Crypturellus cinnamomeus sallaei*, Tres Zapotes, 27 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Genus *Motmotnirmus* Mey & Barker, 2014

***Motmotnirmus marginellus* (Nitzsch [in Giebel], 1866)**

Nirmus marginellus Nitzsch [In Giebel], 1866: 368.

No State: *Momotus momota*, no data (Johnson *et al.* 2002b,c).

Genbank Accession Numbers: AF447189.1, AF444851.1, AY149401.1

***Motmotnirmus xilitla* (Carriker, 1954)**

Brüelia marginella xilitla Carriker, 1954a: 200, figs 20a–b.

San Luis Potosí: *Momotus coeruliceps coeruliceps*, Xilitla, 12 Feb. 1947, R.J. Newman (Carriker 1954a; Gustafsson & Bush 2017).

Types: Holotype male and allotype female deposited in USNM (65413).

Genus *Naubates* Bedford, 1930

***Naubates harrisoni* Bedford, 1930**

Naubates harrisoni Bedford, 1930: 168, figs 12, 14, 16b.

Baja California Sur: *Puffinus opisthomelas*, Natividad Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Colima: *Sula sula websteri*, Clarion Island, 1901, R. Beck (Kellogg 1906; Palma & Pilgrim 2002).

Note: A specimen of *N. harrisoni* was identified by Kellogg (1906) as “*Lipeurus fuliginosus* Tasch.”. In addition, Kellogg & Mann (1912) identified two samples, one as “*Lipeurus fuliginosus* Tasch.” and the other as “*Lipeurus testaceus* Tasch.”. The record from *Sula sula websteri* is most likely the result of a contamination (see Palma & Pilgrim 2002).

Genus *Nyctibicola* Cicchino, 1989

***Nyctibicola longirostris* Cicchino, 1989**

Nyctibicola longirostris Cicchino, 1989: 447, figs 1–6.

No State: *Nyctibius jamaicensis*, no data (Johnson *et al.* 2002b,c).

Genbank Accession Numbers: AF444864, AF447199.

Genus *Olivinirmus* Zlotorzyczka, 1964

***Olivinirmus clayae* (Ansari, 1956)**

Brüelia clayae Ansari, 1956b: 375, figs 7–13.

No state: *Cyanocitta stelleri coronata*, no data (Gustafsson & Bush 2017).

***Olivinirmus morionus* (Carriker, 1956)**

Brüelia nitzschi moriona Carriker, 1956: 83, figs 62, 63.

San Luis Potosí: *Cyanocorax morio*, Xilitla, 14 Feb. 1947, M. Newman (Carriker 1956); Cerro Conejo Region, 16 May 1947, R.J. Newman (Gustafsson & Bush 2017).

Campeche: *Cyanocorax morio*, 5. Mar. 1998, D. Clayton (Gustafsson & Bush 2017).

No State: *Cyanocorax morio*, no data (Johnson *et al.* 2002b,c).

Types: Holotype female and allotype male deposited in USNM (65412).

Genbank Accession Numbers: AY149400, AY149430 from Johnson *et al.* (2002b,c).

Note: The host was identified by Carriker (1956) as “*Psilorhinus morio* (Wagler)”.

Genus *Ornicholax* Carriker, 1903

***Ornicholax robustus* Carriker, 1903**

Ornicholax robustus Carriker, 1903: 151, pl. 9, figs 1, 1a–c.

Veracruz: *Tinamus major percautus*, Cerro Tuxtla, 23 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female of *Ornicholax alienus mexicanus* deposited in USNM (68399).

Note: Other specimens of *O. robustus* were described by Carriker (1944a) as “*Ornicholax alienus mexicanus*, new subspecies”.

Genus *Oxylipeurus* Mjöberg, 1910

***Oxylipeurus abdominalis* Carriker, 1956**

Oxylipeurus (Epicolinus) abdominalis Carriker, 1956: 129, figs 77, 78.

San Luis Potosí: *Dendrortyx barbatus*, Xilitla, 12 Jun. 1947, R. Newman (Carriker 1956).

Types: Holotype female and allotype male deposited in USNM (65439).

***Oxylipeurus agriocharis* Clay, 1938**

Oxylipeurus polytrapezius agriocharis Clay, 1938: 183, pl. 12, fig. 3.

Yucatán: *Meleagris ocellata*, no date (Clay 1938).

***Oxylipeurus callipeplus* (Carriker, 1945)**

Epicolinus callipeplus callipeplus Carriker, 1945b: 106, figs 35–38.

Yucatán: *Colinus nigrogularis*, Jan. 1899 (Carriker 1945b).

Type: Holotype female of *Epicolinus callipeplus yucatanensis* deposited in NHML.

Note: One specimen of *O. callipeplus* was described by Carriker (1945b) as “*Epicolinus callipeplus yucatanensis* n. ssp.”.

***Oxylipeurus chiniri* Carriker, 1944b**

Oxylipeurus chiniri chiniri Carriker, 1944b: 577, figs 38–42.

Veracruz: *Ortalis vetula vetula*, Tres Zapotes, 16 Mar. 1940, M.A. Carriker Jr (Carriker 1944b).

Type: Holotype male and allotype female of *Oxylipeurus chiniri vetulae* deposited in USNM (68436).

Note: Other specimens of *O. chiniri* were described by Carriker (1944b) as “*Oxylipeurus chiniri vetulae* n. ssp.”.

***Oxylipeurus corpulentus* Clay, 1938**

Oxylipeurus corpulentus Clay, 1938: 183, text figs 37b, 38, 39a; pl. 12, fig. 1.

Oaxaca: *Meleagris gallopavo*, Coastal región, no date (Camacho-Escobar *et al.* 2014).

***Oxylipeurus globicerus* Carriker, 1944**

Oxylipeurus globicerus Carriker, 1944b: 566, figs 10–12.

Veracruz: *Crax rubra rubra*, Cerro Tuxtla, 4 May 1940, M.A. Carriker Jr (Carriker 1944b).

Types: Holotype male and allotype female deposited in USNM (68426).

***Oxylipeurus inexpectatus* (Carriker, 1967)**

Eiconolipeurus inexpectatus Carriker, 1967c: 51, figs 9, 15.

Tamaulipas: *Dactylortyx thoracicus*, Rancho del Cielo, Jul. 1948, E.K. Miller & J.H. Poppy (Carriker 1967c).

Type: Holotype male deposited in USNM (68236).

***Oxylipeurus laticapitis* (Carriker, 1967)**

Eiconolipeurus laticapitis Carriker, 1967c: 50, fig. 5.

Michoacán: *Dendrortyx macroura dilutus*, Pátzcuaro, Feb. 1948, E.P. Edwards (Carriker 1967c).

Type: Holotype male deposited in USNM (68237).

***Oxylipeurus ocellatus* Clay, 1938**

Oxylipeurus ocellatus Clay, 1938: 185, pl. 12, fig. 2.

Yucatán: *Meleagris ocellata*, no date (Clay 1938).

Type: Holotype male in NHML (Meinertzhagen 3151).

***Oxylipeurus polytrapezius* (Burmeister, 1838)**

Lipeurus polytrapezius Burmeister, 1838: 434.

Oaxaca: *Meleagris gallopavo*, Coastal región, no date (Camacho-Escobar *et al.* 2014).

Genus *Paraclisis* Timmermann, 1965

***Paraclisis confidens* (Kellogg, 1899)**

Lipeurus confidens Kellogg, 1899a: 26, pl. 3, fig. 1.

Baja California Sur: *Phoebastria nigripes*, Magdalena Bay, 1897, R.C. McGregor (Kellogg & Mann 1912).

Colima: *Phoebastria nigripes*, Clarion Island, 1901, R. Beck (Kellogg 1906).

Genus *Paragoniocotes* Cummings, 1916b

***Paragoniocotes grandis* Guimarães, 1947**

Paragoniocotes grandis Guimarães, 1947: 272, figs 12, 13.

Veracruz: *Amazona autumnalis autumnalis*, Tres Zapotes, 5 Mar. 1940, M.A. Carriker Jr (Carriker 1950c).

Types: Holotype male and allotype female of *Paragoniocotes quadritergum quadritergum* deposited in USNM (68545).

Note: Other specimens of *P. grandis* were described by Carriker (1950c) as “*Paragoniocotes quadri-tergum quadri-tergum* n. sp.”.

***Paragoniocotes mexicanus* Carriker, 1947**

Paragoniocotes mexicanus Carriker, 1947b: 97, fig. 2h.

Tamaulipas: *Amazona viridigenalis* and *Amazona autumnalis*, Private cattle ranch in northeastern Mexico, no date (Stone *et al.* 2005).

Veracruz: *Amazona autumnalis autumnalis*, Tres Zapotes, 25 Mar. 1940, M.A. Carriker Jr (Carriker 1947b).

Types: Holotype female and allotype male deposited in USNM (68509).

***Paragoniocotes microgaster* Carriker, 1947**

Paragoniocotes microgaster Carriker, 1947b: 97, fig. 2g,i.

Veracruz: *Amazona albifrons*, Tres Zapotes, 21 Mar. 1940, M.A. Carriker Jr (Carriker 1947b).

Type: Holotype male deposited in USNM (68510).

***Paragoniocotes* sp.**

No State: *Eupsittula astec*, no data (Johnson *et al.* 2002b).

Genbank Accession Numbers: AF348870, AY314839.

Genus *Pectenosoma* Ewing, 1929

Pectenosoma angusta Carriker, 1936

Pectenosoma verrucosa angusta Carriker, 1936: 165, pl. 29, fig. 3.

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype female and allotype male of *Pectenosoma verrucosa boucardi* deposited in USNM (68391).

Note: Other specimens of *P. angusta* were identified by Carriker (1944a) as “*Pectenosoma verrucosa boucardi*, new subspecies”.

Pectenosoma cinnamomea Carriker, 1944

Pectenosoma verrucosa cinnamomea Carriker, 1944a: 204.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Naranjo, 15 Feb. 1948, G.H. Lowery (Carriker 1954a).

Veracruz: *Crypturellus cinnamomeus sallaei*, Tres Zapotes, 27 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Type: Holotype female deposited in USNM (68393). Holotype female and allotype male of *Pectenosoma verrucosa tinami* deposited in USNM (68390)

Note: Other specimens of *P. cinnamomea* were described by Carriker (1944a) as “*Pectenosoma verrucosa tinami*, new subspecies”.

Pectenosoma meserythra Carriker, 1944

Pectenosoma verrucosa meserythra Carriker, 1944a: 204.

Veracruz: *Crypturellus soui meserythrus*, Cerro Tuxtla, 8 May 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype female and allotype male deposited in USNM (68392).

Genus *Pectinopygus* Mjöberg, 1910

Pectinopygus annulatus (Piaget, 1880)

Lipeurus annulatus Piaget, 1880: 340, pl. 27, fig. 10.

Colima: *Sula variegata* and *Sula sula websteri*, Clarion Island, 1901, R. Beck (Kellogg 1906).

Note: Specimens of *P. annulatus* were identified by Kellogg (1906) as “*Lipeurus potens* Kellogg & Kuwana”.

Pectinopygus faralloni (Kellogg, 1896)

Nirmus faralloni Kellogg, 1896a: 103, pl. 5, fig. 4.

Baja California: *Arenaria melanocephala* and *Larus heermanni*, San Gerónimo Island, 1897, R.C. McGregor (Kellogg & Mann 1912); *Haematopus palliatus frazari*, San Martin Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *P. farallonii* were identified by Kellogg & Mann (1912) as “*Lipeurus faralloni*” and “*Nirmus faralloni*”. All three host records in Kellogg & Mann (1912) are most likely the result of contaminations, because no species of the host genera given by these authors are regular and natural hosts for any species of *Pectinopygus* (see Price *et al.* 2003).

Pectinopygus fregatiphagus (Eichler, 1943)

Lipeurus gracilicornis major Kellogg, 1899a: 30, pl. 3, fig. 3. Not *Lipeurus major* Piaget, 1880.

Epifregata fregatiphagus Eichler, 1943a: 59. *Nomen novum* for *Lipeurus gracilicornis major* Kellogg, 1899a.

Colima: *Fregata magnificens* and *Sula variegata*, Clarion Island, 1901, R. Beck (Kellogg 1906); *Fregata magnificens*, San Benedicto Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Notes: Specimens of *P. gracilicornis* were identified by Kellogg (1906) and Kellogg & Mann (1912) as “*Lipeurus gracilicornis major* Kellogg”. The record from *Sula variegata* is likely the result of a contamination because *Pectinopygus fregatiphagus* does not parasitise any species of *Sula* (see Price *et al.* 2003).

Pectinopygus occidentalis Thompson, 1948

Pectinopygus (Epipelicanus) occidentalis Thompson, 1948b: 318, figs 1–9.

Baja California: *Pelecanus occidentalis californicus*, no date, J.F. Abbott (Kellogg 1899a).

Note: Specimens of *P. occidentalis* were identified by Kellogg (1899a) as “*Lipeurus forficulatus* Nitzsch”.

***Pectinopygus sulae* (Rudow, 1869)**

Lipeurus sulae Rudow, 1869: 43.

Colima: *Sula sula websteri* and *Sula variegata*, Clarion Island, 1901, R. Beck (Kellogg 1906).

Note: Specimens of *P. sulae* were identified by Kellogg (1906) as “*Lipeurus helleri* Kellogg & Kuwana”.

***Pectinopygus tordoffi* Elbel & Emerson, 1956**

Pectinopygus (Epipelicanus) tordoffi Elbel & Emerson, 1956: 173, figs 1–7.

San Luis Potosí: *Pelecanus erythrorhynchos*, Ajinche, 10 Nov. 1946, C. Shaw (Carriker 1956).

Types: Holotype male and allotype female of *Pectinopygus (Epipelicanus) canadensis* deposited in USNM (65416).

Note: Specimens of *P. tordoffi* were identified by Carriker (1956) as “*Pectinopygus (Epipelicanus) canadensis*, n. sp.”.

Genus *Penenirmus* Clay & Meinertzhagen, 1938a

***Penenirmus auritus* (Scopoli, 1763)**

Pediculus auritus Scopoli, 1763: 383.

Baja California: *Melanerpes formicivorus angustifrons*, no date, J.F. Abbott (Kellogg 1899a).

San Luis Potosí: *Melanerpes formicivorus formicivorus*, Xilitla, 12 Jun. 1947, R.J. Newman; *Melanerpes santacruzii grateloupensis*, Ebano, 25 Feb. 1947, G.H. Lowery (Carriker 1956); *Sphyrapicus varius varius*, Xilitla, 25 Jan. 1947, R. Newman; *Picoides scalaris giraudi*, Ciudad del Maiz, 23 Mar. 1947, R. Newman (Carriker 1956).

Yucatán: *Colaptes rubiginosus yucatanensis*, no date; *Dryocopus lineatus*, no date (Dalglish 1972).

No State: *Dryocopus lineatus petersi* no data; *Melanerpes santacruzii grateloupensis* no data; *Picoides arizonae* no data; *Picoides fumigatus* no data; *Picoides scalaris giraudi* no data; *Sphyrapicus thyroideus*, no data (Dalglish 1972).

Types: Holotype female and allotype male of *Penenirmus auritus aurifrons* deposited in USNM (65426).

Note: Specimens of *P. auritus* were identified by Kellogg (1899a) as “*Docophorus californiensis* Kellogg”. Carriker (1956) identified them as “*Penenirmus auritus californiensis* (Kellogg)”, “*Penenirmus auritus evagans* (Kellogg)”, “*Penenirmus auritus varius* Emerson”, and also described them as “*Penenirmus auritus aurifrons*, n. subsp.”.

***Penenirmus jungens* (Kellogg, 1896)**

Docophorus jungens Kellogg, 1896b: 481, pl. 66, fig. 4.

No State: *Colaptes auratus cafer*, no data (Dalglish 1972).

***Penenirmus quadripustulatus* (Kellogg & Mann, 1912)**

Docophorus californiensis var. *quadripustulatus* Kellogg & Mann, 1912: 57.

Colima: *Pipilo erythrophthalmus*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann, 1912)

Note: The locality (Socorro Island) was recorded as belonging to the State of Baja California; however, this island is in the Archipelago of Revillagigedo located in the State of Colima (INEGI 2014).

***Penenirmus* sp.**

Quintana Roo: *Colaptes rubiginosus yucatanensis*, 4 km. NNE Felipe Carrillo Puerto (Klaas 1968).

Genus *Perineus* Thompson, 1936

***Perineus concinnus* (Kellogg & Chapman, 1899)**

Lipeurus concinnus Kellogg & Chapman, 1899: 97, pl. 7, fig. 2.

Baja California: *Hydrobates macrodactylus*, Guadalupe Island, 1897, R.C. McGregor (Kellogg & Mann 1912); *Phoebastria immutabilis*, San Gerónimo Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *P. concinnus* were identified by Kellogg & Mann (1912) as “*Lipeurus concinnus* Kellogg”. The host given as “*Hydrobates macrodactylus*” is most likely the result of a contamination (see Palma 1994).

Genus *Philoceanus* Kellogg, 1903

Philoceanus becki Kellogg, 1903

Philoceanus becki Kellogg, 1903: 88, figs 1, 2.

Baja California: *Carpodacus mexicanus amplus*, Guadalupe Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Kellogg & Mann (1912) regarded their single female louse from *Carpodacus mexicanus amplus* as a possible straggler from *Hydrobates tethys*, and we agree with that statement.

Genus *Philoaterus* Nitzsch, 1818

Philoaterus bruneri (Carriker, 1903)

Docophorus bruneri Carriker, 1903: 128, pl. 1, fig. 2.

Distrito Federal: *Empidonax* sp., Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones (Zavaleta 1943a) (CNIN-PHT0014).

Note: Specimens of *Ph. bruneri* were identified by Zavaleta (1943a) as “*Docophorus bruneri*”.

Philoaterus corvi (Linnaeus, 1758)

Pediculus corvi Linnaeus, 1758: 612.

No State: *Corvus corax*, no data (Price & Hellenthal 1998).

Philoaterus crassipes (Burmeister, 1838)

Docophorus crassipes Burmeister, 1838: 425.

No State: *Aphelocoma coerulescens*, no data (Price & Hellenthal 1998); *Cyanocitta stelleri*, no data (Price & Hellenthal 1998).

Philoaterus dennyii (Ponton, 1871)

Docophorus dennyii Ponton, 1871: 78, pl. 91, fig. 3.

Veracruz: *Momotus lessonii goldmani*, Tres Zapotes, no date (Carriker 1963c).

Note: Specimens of *Ph. dennyii* were identified by Carriker (1963c) as “*Clayiella prionitis dennyi* (Pontón, 1981)”.

Philoaterus excisus (Nitzsch, 1818)

Philoaterus (Docophorus) excisus Nitzsch, 1818: 290.

Baja California: *Progne subis hesperia*, no date, J.F. Abbott (Kellogg 1899a).

Yucatán: *Petrochelidon fulva citata*, Pisté, no date (Klaas 1968).

Note: Specimens of *Ph. excisus* were identified by Kellogg (1899a) as “*Docophorus domesticus* Kellogg”.

Philoaterus insulicola (Kellogg & Kuwana, 1902)

Docophorus insulicola Kellogg & Kuwana, 1902: 466, pl. 28, fig. 6.

Chiapas: *Eumomota superciliosa bipartita*, Jun. 1943 (Zavaleta 1944) (CNIN-PHT0012).

Note: Specimens of *Ph. insulicola* were identified by Zavaleta (1944) as “*Docophorus insulicola*”.

Philoaterus momotula (Carriker, 1963)

Clayiella prionitis momotula Carriker, 1963c: 54, figs 6, 7.

Veracruz: *Hylomanes momotula momotula*, Cerro Tuxtla, 11 Mar. 1940, M.A. Carriker Jr (Carriker 1963c).

Types: Holotype female and allotype male deposited in USNM (68842).

***Philoaterus osborni* Edwards, 1952**

Philoaterus osborni Edwards, 1952: 27.

Colima: *Corvus* sp., Clarion Island, 1901, R. Beck (Kellogg 1906)

Note: Specimens of *Ph. osborni* were identified by Kellogg (1906) as “*Docophorus corvi* Osborn”.

***Philoaterus platypсарus* (Carriker, 1963)**

Clayiella platypсарa Carriker, 1963c: 57, figs 15, 16.

Veracruz: *Platypсарis aglaiae sumichrasti*, Tres Zapotes, 8 Mar. 1940, M.A. Carriker Jr (Carriker, 1963c).

Types: Holotype female and allotype male deposited in USNM (68846).

***Philoaterus rufus* (Kellogg, 1899)**

Docophorus rufus Kellogg, 1899a: 7, pl. 1, figs 6, 9.

Baja California: *Myiarchus nuttingi nuttingi*, no date (Kellogg 1899a).

***Philoaterus sialii* (Osborn, 1896)**

Docophorus sialii Osborn, 1896: 220.

Chiapas: *Calocitta formosa azurea*, Cacahoatán, no date (Zavaleta 1944) (CNIN-PHT0013).

Note: One specimen of *Ph. sialii* was identified by Zavaleta (1944) as “*Docophorus incisus* K.”.

***Philoaterus tropicalis* Carriker, 1956**

Philoaterus tropicalis Carriker, 1956: 19, figs 1–4.

San Luis Potosí: *Stelgidopteryx serripennis serripennis*, Tamuín, 4 Jan. 1947, R.J. Newman (Carriker 1956).

Type: Holotype male in USNM (69220).

***Philoaterus underwoodi* (Carriker, 1903)**

Docophorus underwoodi Carriker, 1903: 130, pl. 1, fig. 3.

San Luis Potosí: *Cyanocorax morio*, Xilitla, 27 Jan. 1947, M. Newman (Carriker 1954a).

No State: *Cyanocorax morio*, no data (Price & Hellenthal 1998).

***Philoaterus* sp.**

Baja California: *Cardinalis cardinalis igneus*, no date, J.F. Abbott (Kellogg 1899a).

Campeche: *Eumomota superciliosa superciliosa*, 5 km. S Champotón (Klaas 1968); *Pitangus sulphuratus guatemalensis*, 5 km. S Champotón (Klaas 1968).

Distrito Federal: *Atlapetes pileatus pileatus* (CNIN-PHT0016), *Empidonax wrightii*, *Junco phaeonotus*, *Vireo huttoni*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, no date (Zavaleta 1943a).

Quintana Roo: *Tolmomyias sulphurescens*, Pueblo Nuevo X-can (Klaas 1968).

Yucatán: *Tolmomyias sulphurescens*, 3.5 km. N Pisté (Klaas, 1968); *Tolmomyias sulphurescens* Pisté, (Klaas 1968); *Vireo flavoviridis flavoviridis*, Pisté (Klaas 1968).

Note: No species of *Philoaterus* has been found on any of the hosts given by Kellogg (1899a) and Zavaleta (1943a) under the louse name “*Docophorus communis* Nitzsch” (see Price *et al.* 2003); therefore, we leave these records at the generic level only.

Genus *Physconelloides* Ewing, 1927

***Physconelloides ceratoceps* Ewing, 1927**

Physconelloides ceratoceps Ewing, 1927: 94.

Campeche: *Leptotila jamaicensis*, no date; *Leptotila plumbeiceps* no date; *Leptotila verreauxi fulviventris*, no date (Johnson *et al.* 2002a).

Yucatán: *Leptotila verreauxi fulviventris*, no date (Johnson *et al.* 2002a).

No State: *Leptotila jamaicensis* no data; *Leptotila plumbeiceps* no data; *Leptotila verreauxi fulviventris* no data

(Price *et al.* 1999; Johnson *et al.* 2001); *Leptotila verreauxi*, no data (Hill & Tuff 1978; Price *et al.* 1999).

Genbank Accession Numbers: AF414770, AF414771, AF414772, AF414773, AF414774, AF414775, AF414776, AF414777, AF414778, AF414779; AF414784; AF414785.

***Physconelloides cubanus* Tendeiro, 1980**

Physconelloides cubanus Tendeiro, 1980: 59, figs 35, 36, 43, photos 11–13.

Campeche: *Geotrygon montana*, no date (Johnson *et al.* 2002a).

No State: *Geotrygon montana*, no date (Price *et al.* 1999; Johnson *et al.* 2001; Johnson *et al.* 2002b).

Genbank Accession Numbers: AF414766, AF414767, AF414768, AF414769.

***Physconelloides eurysema* (Carriker, 1903)**

Goniocotes eurysema Carriker, 1903: 150, pl. 3, fig. 6.

Campeche: *Claravis pretiosa*, no date (Johnson *et al.* 2002a).

Yucatán: *Columbina passerina*, no date (Johnson *et al.* 2002a).

No State: *Scardafella inca*, no data; *Columbina talpacoti*, no data; *Claravis pretiosa*, no data; *Columbina passerina*, no data (Price *et al.* 1999; Johnson *et al.* 2001); *Columbina passerina*, no data (Hill & Tuff 1978).

Genbank Accession Numbers: AF414801, AF414802, AF414803, AF414804, AF414805, AF414806; AF414793, AF414794, AF414795, AF414796, AF414797.

Note: Specimens of *Ph. eurysema* were identified by Hill & Tuff (1978) as “*Physconelloides passerinae* Emerson, 1957”.

***Physconelloides spenceri* Emerson & Ward, 1958**

Physconelloides spenceri Emerson & Ward, 1958: 239, figs 1, 4.

No State: *Patagioenas speciosa*, no data (Price *et al.* 1999; Johnson *et al.* 2001; 2011).

GenBank Accession Numbers: AF348648, HQ332911, HQ332842.

***Physconelloides wisemani* Emerson, 1960**

Physconelloides wisemani Emerson, 1960a: 122, figs 4, 9, 14.

No State: *Zenaida asiatica*, no data (Price *et al.* 1999).

***Physconelloides zenaidurae* (McGregor, 1917)**

Goniodes zenaidurae McGregor, 1917a: 433, pl. 28, figs 1, 4.

No State: *Zenaida macroura*, no data (Hill & Tuff 1978; Price *et al.* 1999).

Genus *Picicola* Clay & Meinertzhagen, 1938a

***Picicola foedus* (Kellogg & Chapman, 1899)**

Nirmus foedus Kellogg & Chapman, 1899: 87, pl. 6, fig. 7.

Distrito Federal: *Pyrocephalus rubinus mexicanus*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones, no date (Zavaleta 1943a).

San Luis Potosí: *Pyrocephalus rubinus mexicanus*, Xilitla, 25 Jan. 1947, R. Newman (Carriker 1956).

Types: Holotype male and allotype female of *Picicola (Tyrannicola) rubina* deposited in USNM (65435).

Note: Specimens of *P. foedus* were identified by Zavaleta (1943a) as “*Degeeriella foedus*”, and as “*Picicola (Tyrannicola) rubina* n. sp.” by Carriker (1956).

Genus *Pseudolipeurus* Carriker, 1936

***Pseudolipeurus similis* Carriker, 1944**

Pseudolipeurus longiceps similis Carriker, 1944a: 91, fig. 2b.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Naranja, 15 Feb. 1948, G.H. Lowery (Carriker 1954a).

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker (Carriker 1944a); *Crypturellus cinnamomeus sallaei*, Tres Zapotes, 27 Mar. 1940, M.A. Carriker (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68329).

Notes: A single male louse from *Tinamus major percautus* (Cerro Tuxtla, 23 Mar. 1940) was described by Carriker (1944a) as “*Pseudolipeurus longiceps robustus* new subspecies”, now regarded as a junior synonym of *Ps. similis* (see Price *et al.* 2003). The species regularly found on subspecies of *Tinamus major* is *Pseudolipeurus tinami* (see below, and Price *et al.* 2003). Therefore, we regard the single record of *Ps. similis* from *Tinamus major* as the result of a contamination from a species of *Crypturellus*.

***Pseudolipeurus tinami* (Carriker, 1903)**

Lipeurus longipes tinami Carriker, 1903: 146, pl. 3, fig. 3

Veracruz: *Tinamus major percautus*, Cerro Tuxtla and Tres Zapotes, 1940, M.A. Carriker Jr (Carriker 1944a).

Genus *Pseudophilopterus* Carriker, 1936

***Pseudophilopterus similis* Carriker, 1944**

Pseudophilopterus hirsutus similis Carriker, 1944a: 103, figs 4e–f.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Río Axtla, 21 Apr. 1947, R.J. Newman (Carriker 1954a).

Veracruz: *Crypturellus cinnamomeus sallaei*, Tres Zapotes, 27 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68337).

Genus *Pterocotes* Ewing, 1929

***Pterocotes aberrans* (Carriker, 1903)**

Goniodes aberrans Carriker, 1903: 157, pl. 4, figs 4, 5.

Veracruz: *Tinamus major percautus*, Cerro Tuxtla, 23 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female of *Pterocotes aberrans mexicanus* deposited in USNM (68387).

Note: Other specimens of *Pt. aberrans* were described by Carriker (1944a) as “*Pterocotes aberrans mexicanus* new subspecies”.

Genus *Quadriceps* Clay & Meinertzhagen, 1939b

***Quadriceps auratus* (De Haan, 1829)**

Philopterus (Docophorus) auratus De Haan, 1829: 310, pl. 5, fig. 9.

Baja California: *Haematopus palliatus frazari*, San Martín Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *Q. auratus* were identified by Kellogg & Mann (1912) as “*Nirmus ochropygus* Nitzsch”.

***Quadriceps birostris* (Giebel, 1874)**

Nirmus birostris Giebel, 1874: 174.

Colima: *Onychoprion anaethetus*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Notes: Specimens of *Q. birostris* were identified as “*Nirmus gloriosus* Kellogg and Kuwana” by Kellogg & Mann (1912). This record is most likely the result of a contamination because *Q. birostris* is a regular and natural parasite of *Onychoprion fuscatus* only (see Price *et al.* 2003). The locality (Socorro Island) was recorded as belonging to the State of Baja California; however, this island is in the Archipelago of Revillagigedo located in the State of Colima (INEGI 2014).

***Quadriceps carrikeri* Hopkins & Timmermann, 1954**

Quadriceps carrikeri Hopkins & Timmermann, 1954: 147, text-fig. 13, pl. 2, figs 19, 20.

Yucatán: *Tringa semipalmatus inornata*, 8–13 km, WSW Sisal, no date (Klaas 1968).

***Quadriceps hemichrous* (Nitzsch [In Giebel], 1866)**

Nirmus hemichrous Nitzsch [In Giebel], 1866: 372.

San Luis Potosí: *Himantopus mexicanus*, Tamuín, 17 Nov. 1946, R.J. Newman (Carriker 1954a).

***Quadriceps hospes* (Nitzsch [In Giebel], 1866)**

Nirmus hospes Nitzsch [In Giebel], 1866: 371.

San Luis Potosí: *Pluvialis squatarola*, Ebano, 1 Nov. 1946, C. Shaw (Carriker 1954a).

***Quadriceps major* (Kellogg, 1899)**

Nirmus fissus Var. *major* Kellogg, 1899a: 15, pl. 2, fig. 2.

Baja California: *Tringa* sp., no date (Kellogg 1899a).

Quintana Roo: *Charadrius wilsonia wilsonia*, Isla Mujeres, no date (Klaas 1968).

Yucatán: *Charadrius nivosus nivosus*, 4 mi. S Sisal, no date (Klaas 1968); *Charadrius wilsonia wilsonia*, 3–13 km. WSW Sisal, no date (Klaas 1968).

Note: The host given by Kellogg (1899a) as “*Tringa* sp.” is regarded as erroneous for a species of *Quadriceps* belonging to a group regularly found on species of *Charadrius* (see Hopkins & Clay 1952; Price *et al.* 2003). Specimens of *Q. major* were identified by Klass (1968) as “*Quadriceps assimilis major*”.

***Quadriceps nesiototes* (Kellogg & Mann, 1912)**

Nirmus nesiototes Kellogg & Mann 1912: 60.

Baja California: *Haematopus bachmani*, San Martín Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: After examining the holotype male of *N. nesiototes*, Gustafsson & Bush (2017) have placed this species in the genus *Quadriceps*, and qualified it as very similar to *Q. auratus* (De Haan, 1829).

***Quadriceps obtusus* (Kellogg & Kuwana, 1902)**

Nirmus obtusus Kellogg & Kuwana, 1902: 468, pl. 29, fig. 2.

Baja California: *Tringa incana*, no date (Palma 1994).

***Quadriceps punctatus* (Burmeister, 1838)**

Nirmus punctatus Burmeister, 1838: 428.

Baja California: *Larus* sp., no date, J.F. Abbott (Kellogg 1899a).

Note: Specimens of *Q. punctatus* were identified by Kellogg (1899a) as “*Nirmus punctatus* Nitzsch”.

***Quadriceps punctatus felix* (Giebel, 1874)**

Nirmus felix Giebel, 1874: 175.

Baja California: *Larus heermanni*, Todos Santos Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: One specimen of *Q. punctatus felix* was identified by Kellogg & Mann (1912) as “*Nirmus felix* Giebel”.

***Quadriceps ravus* (Kellogg, 1899)**

Nirmus furvus Var. *ravus* Kellogg, 1899a: 14, pl. 2, fig. 1.

Yucatán: *Actitis macularius*, 13 km WSW Sisal, no date (Klaas 1968).

***Quadriceps semifissus* (Nitzsch [in Giebel], 1866)**

Nirmus semifissus Nitzsch [in Giebel], 1866: 372.

Veracruz: *Himantopus mexicanus*, Tlacotalpán, 6 Feb. 1940, M.A. Carriker Jr (Carriker 1944c).

Types: Holotype male and allotype female of *Quadriceps semifissa mexicana* deposited in USNM (68422).

Note: Specimens of *Q. semifissus* were described by Carriker (1944c) as “*Quadriceps semifissa mexicana* subsp. nova.”.

***Quadriceps strepsilaris* (Denny, 1842)**

Philopterus (*Nirmus*) *strepsilaris* Denny, 1842: 52, 135, pl. 11, fig. 4.

Baja California: *Arenaria melanocephala*, San Martín Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *Q. strepsilaris* were identified by Kellogg & Mann (1912) as “*Nirmus euprepes* Kellogg and Chapman”.

***Quadriceps* sp.**

Yucatán: *Leucophaeus atricilla*, 4–3/10 mi. W Sisal, no date (Klaas 1968).

Genus *Rallicola* Johnston & Harrison, 1911

***Rallicola (Rallicola) colombiana* (Carriker, 1966)**

Furnaricola certhia colombiana Carriker, 1966b

No State: *Dendrocolaptes certhia*, no data (Johnson *et al.* 2002b).

Genbank Accession Numbers: AY149436, AY149407.

***Rallicola (Rallicola) deckeri* Adams, 2001**

Rallicola deckeri Adams, 2001: 118, figs 1–3.

Campeche: *Dendrocincla homochroa*, no date (Adams 2001).

Types: Holotype male deposited in USNM (89391).

***Rallicola (Rallicola) exiguifrons* (Carriker, 1944)**

Parricola exiguifrons Carriker, 1944c: 97, pl. 5, figs 5–7.

Veracruz: *Jacana spinosa gymnostoma*, Tres Zapotes, 21 Mar. 1940, M.A. Carriker Jr (Carriker 1944c).

Types: Holotype male and allotype female deposited in USNM (68892).

***Rallicola (Rallicola) fuliginosa* (Carriker, 1963)**

Furnaricola fuliginosa Carriker, 1963a: 467, figs 31, 35.

No State: *Dendrocincla anabatina*, no data (Johnson *et al.* 2002b).

GenBank Accession Numbers: AY149437, AY149408.

***Rallicola (Rallicola) ortygometrae ewingi* Emerson, 1955**

Rallicola ortygometrae ewingi Emerson, 1955: 292, figs 17, 28.

No State: *Aramides cajaneus mexicanus*, no data (Emerson 1955).

***Rallicola (Rallicola) parvigenitalis* (Carriker, 1944)**

Furnaricola parvigenitalis Carriker, 1944c: 88, pl. 4, figs 3, 4; pl. 5, fig. 2.

Veracruz: *Synallaxis erythrothorax*, Tres Zapotes, 18 Jan. 1940, M.A. Carriker Jr (Carriker 1944c; Price & Clayton 1994).

Types: Holotype male and allotype female deposited in USNM (68416).

Genus *Rhopaloceras* Taschenberg, 1882

***Rhopaloceras heterogenitalis* Carriker, 1944**

Rhopaloceras heterogenitalis heterogenitalis Carriker, 1944a: 136, figs 10a,b,e.

San Luis Potosí: *Crypturellus boucardi boucardi*, Río Axtla, 21 Apr. 1947, R.J. Newman (Carriker 1954a).

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

Types: Holotype male and allotype female deposited in USNM (68353).

***Rhopaloceras rudimentarius* Carriker, 1936**

Rhopaloceras rudimentarius Carriker, 1936: 113, pl. 14, figs 1, 1a,b,c.

Veracruz: *Crypturellus soui meserythrus*, Cerro Tuxtla and Tres Zapotes, Feb.–May 1940, M.A. Carriker Jr (Carriker 1944a).

Genus *Rotundiceps* Edwards, 1952

Rotundiceps cordatus (Osborn, 1896)

Nirmus cordatus Osborn, 1896: 228, pl. 2, fig. a.

Baja California: *Limosa fedoa*, Playa Maria Bay, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *R. cordatus* were described by Kellogg & Mann (1912) as “*Nirmus lucidus* n. sp.”.

Genus *Saemundssonina* Timmermann, 1936

Saemundssonina brevicornis (Giebel, 1874)

Docophorus brevicornis Giebel, 1874: 112.

Yucatán: *Thalasseus sandvicensis*, 13 km WSW Sisal, no date (Klaas 1968).

Saemundssonina haematopi (Linnaeus, 1758)

Pediculus haematopi Linnaeus, 1758: 613

Baja California: *Haematopus bachmanni*, San Benito Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: One specimen of *S. haematopi* was identified by Kellogg & Mann (1912) as “*Docophorus acanthus* Giebel”.

Saemundssonina insolita (Kellogg, 1896)

Docophorus insolitus Kellogg, 1896a: 94, pl. 4, fig. 5.

Baja California: *Ptychoramphus aleuticus*, San Gerónimo Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *S. insolita* were identified by Kellogg & Mann (1912) as “*Docophorus insolitus* Kellogg”.

Saemundssonina lari (O. Fabricius, 1780)

Pediculus lari O. Fabricius, 1780: 219.

Baja California: *Aechmophorus occidentalis*, Ensenada Island, 1897, R.C. McGregor (Kellogg & Mann 1912); *Larus* sp., no date, J.F. Abbott (Kellogg 1899a).

Note: Lice from *Aechmophorus occidentalis* identified by Kellogg & Mann (1912) as “*Docophorus lari* Denny” are most likely the result of a contamination because grebes are not parasitised by any species of *Saemundssonina* (see Price *et al.* 2003).

Saemundssonina montereyi (Kellogg, 1896)

Docophorus montereyi Kellogg, 1896a: 87, pl. 3, fig. 6.

Baja California: *Synthliboramphus hypoleucus*, San Benito Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: One specimen of *S. montereyi* was identified by Kellogg & Mann (1912) as “*Docophorus montereyi* Kellogg”.

Saemundssonina platygaster (Denny, 1842)

Philoaterus (*Docophorus*) *platygaster* Denny, 1842: 44, 83, pl. 2, fig. 5.

Baja California: *Tringa* sp., no date, J.F. Abbott (Kellogg 1899a).

Note: One male of *S. platygaster* was identified by Kellogg (1899a) as “*Docophorus cordiceps* Giebel”.

Saemundssonina uppalensis (Rudow, 1870)

Docophorus uppalensis: 455.

Colima: *Phaethon aethereus*, Socorro Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Notes: Specimens of *S. uppalensis* were identified by Kellogg & Mann (1912) as “*Docophorus breviantennatus* Piaget”. The locality (Socorro Island) was recorded as belonging to the State of Baja California; however, this island is part of Archipelago of Revillagigedo located in the State of Colima (INEGI 2014).

***Saemundssonina* sp.**

Baja California: *Haematopus palliatus frazari*, San Martin Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Immature specimens of *Saemundssonina* sp. from *Haematopus palliatus frazari* were identified by Kellogg & Mann (1912) as “*Docophorus* sp. juv.”, but may belong to *S. haematopi*.

Genus *Strigiphilus* Mjöberg, 1910

***Strigiphilus cursor* (Burmeister, 1838)**

Docophorus cursor Burmeister, 1838: 426.

Colima: *Asio flammeus flammeus*, Clarion Island, 1901, R. Beck (Kellogg 1906).

Distrito Federal: *Asio otus*, Pueblo de Santa Rosa, Suroeste de la Ciudad de Mexico, sobre los kilómetros 27–31 de la carretera que va al Desierto de los Leones (Zavaleta 1943a).

Notes: Specimens of *S. cursor* were identified by Kellogg (1906) and Zavaleta (1943a) as “*Docophorus cursor* Nitzsch”, and the host was given as “*Asio galapagoensis*”.

***Strigiphilus microgenitalis* Carriker, 1966**

Strigiphilus microgenitalis Carriker, 1966a: 92, figs 29, 30.

Veracruz: *Glaucidium ridgwayi*, Tres Zapotes, 12 Mar. 1940 (Carriker 1966a).

Types: Holotype female deposited in USNM (68818).

Note: The host was given by Carriker (1966a) as “*Glaucidium brasilianum ridgwayi*”.

***Strigiphilus speotyti* (Osborn, 1896)**

Docophorus speotyti Osborn, 1896: 222, fig. 144.

Baja California: *Athene cunicularia hypugaea*, San Benito Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Colima: *Athene cunicularia rostrata*, Clarion Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Note: Specimens of *S. speotyti* were identified by Kellogg & Mann (1912) as “*Docophorus speotyti* Osborn”.

***Strigiphilus virgo* (Giebel, 1874)**

Docophorus virgo Giebel, 1874: 79.

San Luis Potosí: *Ciccaba virgata centralis*, Xilitla, 8 Feb. 1947, R.J. Newman (Carriker 1954a).

Types: Holotype male and allotype female of *Strigiphilus viridicus* deposited in USNM (65420).

Note: Specimens of *S. virgo* were identified by Carriker (1954a) as “*Strigiphilus viridicus* n. sp.”.

Genus *Strongylocotes* Taschenberg, 1882

***Strongylocotes fimbriatus* Clay, 1937**

Strongylocotes complanatus fimbriatus Clay, 1937: 156, pl. 4, fig. 3.

San Luis Potosí: *Crypturellus cinnamomeus mexicanus*, Naranjo, no date, G.H. Lowery (Carriker 1954a).

Veracruz: *Crypturellus boucardi boucardi*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr; *Crypturellus cinnamomeus sallaei*, Tres Zapotes, 27 Mar. 1940, M.A. Carriker Jr (Carriker 1944a).

No State: *Crypturellus cinnamomeus mexicanus*, no data (Clay 1937).

Types: Holotype male and allotype female of *Strongylocotes complanatus boucardi* deposited in USNM (68339).

Note: Other specimens from *Crypturellus boucardi boucardi* were described by Carriker (1944a) as “*Strongylocotes complanatus boucardi* new subspecies”. Also, Carriker (1954a) identified two nymphs of *St. fimbriatus* as “*Strongylocotes interruptus fimbriatus* Clay”.

***Strongylocotes cordiceps* (Carriker, 1936)**

Nirmocotes cordiceps Carriker, 1936: 83, pl. 5, fig. 2.

Veracruz: *Tinamus major percautus*, Cerro Tuxtla, 28 Mar. 1940, M.A. Carriker Jr (Carriker 1944c).

Types: Holotype male and allotype female of *Strongylocotes pellucidifrons* deposited in USNM (68345).

Note: Other specimens of *St. cordiceps* were described by Carriker (1944c) as “*Strongylocotes pellucidifrons* new species”.

***Strongylocotes subconiceps* Carriker, 1936**

Strongylocotes subconiceps Carriker, 1936: 90, pl. 8, figs 1, 1a.

Veracruz: *Crypturellus soui meserythrus*, Cerro Tuxtla and Tres Zapotes, no date (Carriker 1944c).

Note: Specimens of *St. subconiceps* were identified by Carriker (1944c) as “*Strongylocotes subconiceps subconiceps* Carriker”.

Genus *Sturnidoecus* Eichler, 1944

***Sturnidoecus mexicanus* Carriker, 1956**

Sturnidoecus caligineus mexicanus Carriker, 1956: 39, figs 36, 37.

San Luis Potosí: *Turdus infuscatus*, Cerro Conejo, 27 May 1947, R. Newman (Carriker 1956; Gustafsson & Bush 2017).

Types: Holotype female and allotype male deposited in USNM (65425).

Genus *Trabeculus* Rudow, 1866b

***Trabeculus mirabilis* (Kellogg, 1896)**

Giebelia mirabilis Kellogg, 1896a: 138, pl. 11, figs 7–8.

Baja California Sur: *Puffinus opisthomelas*, Natividad Island, 1897, R.C. McGregor (Kellogg & Mann 1912).

Colima: *Puffinus auricularis* and *Sula sula websteri*, Clarion Island, 1901, R. Beck (Kellogg, 1906).

Note: The record from *Sula sula websteri* is most likely the result of a contamination because there is no species of *Trabeculus* parasitising any species of *Sula* (see Price *et al.* 2003).

Genus *Traihoriella* Ansari, 1947

***Traihoriella laticeps* (Piaget, 1888)**

Nirmus laticeps Piaget, 1888: 152, pl. 3, fig. 5.

San Luis Potosí: *Aulacorhynchus prasinus prasinus*, Xilitla, 7 Feb. 1947, R.J. Newman (Carriker 1954a; Gustafsson & Bush 2017).

Types: Holotype male and allotype female of *Brueelia laticeps prasinus* deposited in USNM (65410).

Note: Specimens of *T. laticeps* were described by Carriker (1954a) as “*Brüelia laticeps prasinus*, n. subsp.”.

Genus *Trogoninirmus* Eichler, 1944

***Trogoninirmus hastiformis* (Carriker, 1903)**

Nirmus hastiformis Carriker, 1903: 136, pl. 2, fig. 2.

Veracruz: *Trogon collaris puella*, no date (Carriker 1955b).

Note: Carriker (1955b) consistently misspelt the name of the genus as “*Trogoninirmus*”.

Genus *Vernoniella* Guimarães, 1942a

***Vernoniella macgregori* (Kellogg, 1899)**

Lipeurus macgregori Kellogg, 1899a: 33, pl. 3, figs 5, 6.

Tamaulipas: *Crotophaga sulcirostris*, Victoria, 10 Dec. 1909, F.C. Bishop (McGregor 1917b).

Type: Holotype female of *Lipeurus crotophagae* in USNM (21363).

Note: Other specimens of *V. macgregori* were identified by McGregor (1917b) as “*Lipeurus crotophagae* sp. nov.”.

Family Trichodectidae Kellogg, 1896a

Genus *Bovicola* Ewing, 1929

Bovicola (Bovicola) bovis (Linnaeus, 1758)

Pediculus bovis Linnaeus, 1758: 611.

Coahuila: *Capra aegagrus hircus*, Buenavista, no date (Lozoya-Saldaña *et al.* 1986).

Jalisco: *Bos primigenius taurus*, Tlajomulco de Zúñiga, no date (González-Rizo 1978).

Nuevo León: no host, no date (Quiroz-Martínez & Cantu 1995).

Notes: The record from the goat (*Capra aegagrus hircus*) is likely the result of a contamination because *B. (B.) bovis* is not a regular and natural parasite of goats (see Price *et al.* 2003).

Bovicola (Bovicola) caprae (Gurlt, 1843)

Trichodectes caprae Gurlt, 1843: 3, pl. 1, fig. 2.

Coahuila: *Capra aegagrus hircus*, Arteaga, no date; Buenavista, no date; La Angostura, no date; Saltillo, no date (Lozoya-Saldaña *et al.* 1986); *Ovis orientalis aries*, Buenavista, no date; *Canis lupus familiaris*, Arteaga, no date; *Gallus gallus*, Buenavista, no date; *Meleagris* sp., Buenavista, no date (Lozoya-Saldaña *et al.* 1986).

Nuevo León: no host, no date (Quiroz-Martínez & Cantu 1995).

Notes: Records from *Ovis orientalis aries*, *Canis lupus familiaris*, *Gallus gallus* and *Meleagris* sp. are most likely the result of accidental contaminations, or phoretic transferrals by *Melophagus ovinus* (Diptera: Hippoboscidae) (Lozoya-Saldaña *et al.* 1986). *Bovicola (Bovicola) caprae* is exclusively parasitic on goats (Price *et al.* 2003).

Bovicola (Bovicola) limbatus (Gervais, 1844)

Trichodectes limbatus Gervais, 1844: 313, pl. 48, fig. 4.

Baja California: no host, Cerros Island and San Martin Island, no date, R.C. McGregor (Kellogg & Nakayama 1914).

Note: The natural regular host of *B. (B.) limbatus* is the goat, *Capra aegagrus hircus*. Specimens of *B. (B.) limbatus* were described by Kellogg & Nakayama (1914) as “*Trichodectes painei* sp. nov.”.

Bovicola (Bovicola) ovis (Schrank, 1781)

Pediculus ovis Schrank, 1781: 502, pl. 1, figs 8, 9.

Coahuila: *Ovis orientalis aries*, Buenavista, no date; La Angostura, no date; Saltillo, no date (Lozoya-Saldaña *et al.* 1986).

Nuevo León: no host, no date (Quiroz-Martínez & Cantu 1995).

Genus *Eutrichophilus* Mjöberg, 1910

Eutrichophilus mexicanus (Rudow, 1866)

Trichodectes mexicanus Rudow, 1866a: 109, pl. 5, fig. 1.

Campeche: *Coendou mexicanus yucataniae*, 46 km S Champotón, no date (Timm & Price 1994).

Oaxaca: *Coendou mexicanus*, no date (Werneck 1945); *Coendou mexicanus mexicanus*, 20 mi NW La Ventura, no date (Timm & Price 1994).

Veracruz: *Coendou mexicanus*, Misantla, no date; Catemaco, no date; Jalapa, no date (Werneck 1945); *Coendou mexicanus mexicanus*, Misantla, no date (Timm & Price 1994).

Yucatán: *Coendou mexicanus yucataniae*, Gruta de Balankanche [4.5 km E of Chichen Itzá], no date; Tekom, no date (Timm & Price 1994).

No State: *Coendou mexicanus*, no data (Rudow 1866a; Stobbe 1913).

Notes: Specimens of *E. mexicanus* were identified by Stobbe (1913) as “*Eutrichophilus coëndu* n. sp.”.

Genus *Geomydoecus* Ewing, 1929

Geomydoecus (Geomydoecus) actuosus Price & Hellenthal, 1981

Geomydoecus actuosus Price & Hellenthal, 1981a: 16, figs 29, 30.

Coahuila: *Thomomys bottae analogus*, La Carbonera, no date; Sierra Guadalupe, 11 mi (17.7 km) S, 4 mi (6.4 km) W of General Cepeda, no date; *Thomomys bottae perditus*, 9 mi (14.5 km) E Hermanas, no date; *Thomomys bottae retractus*, 1 mi (1.6 km) N Las Margaritas, no date; 6 mi (9.7 km) NW Las Margaritas, no date; *Thomomys bottae sturgisi*, Sierra del Carmen: 8 mi (12.9 km) SW Piedra Blanca, no date (Price & Hellenthal 1981a).

Nuevo León: *Thomomys bottae analogus*, 4.5 mi (7.2 km) S of Pablillo, no date; 22 mi (35.4 km) S of Galeana, no date; *Thomomys bottae perditus*, Lampazos, 10 mi (16.1 km) S Villaldama, no date (Price & Hellenthal 1981a).

Geomydoecus (Geomydoecus) alcorni Price & Emerson, 1971

Geomydoecus alcorni Price & Emerson, 1971: 254, figs 88, 111.

Jalisco: *Pappogeomys bulleri alcorni*, Mazamitla, 18 Oct. 1950 (Price & Emerson 1971); 4 mi W (6.4 km) and 3 mi (4.8 km) WSE Mazamitla, no date (Price & Hellenthal 1989a); *Pappogeomys bulleri albinus*, 4 mi W (6.4 km) Mazamitla, no date (Demastes *et al.* 2012).

Types: Holotype male and allotype female deposited in KSUC (39806).

Genbank Accession Numbers: JF342597, JF342610-JF342612.

Geomydoecus (Geomydoecus) alleni Price & Emerson, 1971

Geomydoecus alleni Price & Emerson, 1971: 249, fig. 102.

Oaxaca: *Orthogeomys grandis alleni*, Soledad, 25 Aug. 1954 (Price & Emerson 1971).

Types: Holotype male and allotype female deposited in KSUC (62524).

Geomydoecus (Geomydoecus) bajaiensis Price & Hellenthal, 1981

Geomydoecus bajaiensis Price & Hellenthal, 1981a: 9, figs 14–17.

Baja California: *Thomomys bottae abbotti*, 0.5 mi (0.8 km) and 1.5 mi (2.4 km) S Rancho El Socorro, San Fernando, no date; 1 mi (1.6 km) E Rosario, no date (Price & Hellenthal 1981a); *Thomomys bottae anitae*, 3 km E and 34 mi (54.7 km) W Villa Constitución, no date; San Gregorio Ranch, NW of la Purisima, no date; San Jorge; Santo Domingo, no date; *Thomomys bottae aphrastus*, 10 mi (16.1 km) SE of Alamo, no date; San Jose, no date; Santo Domingo, no date; W end at Valle de la Trinidad, no date; 3 mi (4.8 km) SW of la Zapotita, no date; *Thomomys bottae borjasensis*, Mision San Borja, no date; *Thomomys bottae brazierhowelli*, Misión San Fernando, no date; *Thomomys bottae cactophilus*, 4.5 km S, 14 km W of Rosarito, no date; 16 km S, 5 km W Punta Prieta, no date; *Thomomys bottae catavinensis*, 5 mi (20.1 km) S of El Mármol, no date; Catavina, no date; Misión Santa Maria, no date; *Thomomys bottae cunicularis*, 12 mi SE base of Sierra Juárez, Los Palmitos, no date; *Thomomys bottae homorus*, 1 mi (1.6 km) E of Rancho Lagunitas, no date; 15 mi (24.1 km) E of Calmelli, no date; Rancho Union, no date; *Thomomys bottae martirensis*, 20 mi (64.4 km) E of San Quintin, no date; *Thomomys bottae rhizophagus*, Las Flores, 7 mi (11.3 km) S of Bahia Los Angeles, no date; *Thomomys bottae ruricola*, Rancho Ramona, no date; *Thomomys bottae russeolus*, 10 mi (16.1 km) SE Mesquital, no date; Arroyo San Ruiz, 8 mi (12.9 km) W of Camelli, no date; Campo Los Angeles, no date; *Thomomys bottae xerophilus*, 6 km S, 17 km E Zapopita, no date; 0.25 mi (1.4 km) N of Zapopita, no date; Valle de la Trinidad, Aguajita Spring, no date (Price & Hellenthal 1981a).

Baja California Sur: *Thomomys bottae*, Mangrove Island, Magdalena Bay, no date; *Thomomys bottae anitae*, La Paz, no date; *Thomomys bottae aphrastus*, Las Cabras, no date (Price & Hellenthal 1981a).

Type: Holotype female deposited in UMSP.

Notes: Some hosts were given as “*Thomomys bottae litoris*”, “*Thomomys bottae incomptus*” and “*Thomomys bottae imitabilis*”.

Geomydoecus (Geomydoecus) bulleri bulleri Price & Emerson, 1971

Geomydoecus bulleri Price & Emerson, 1971: 253, figs 98, 123.

Jalisco: *Pappogeomys bulleri bulleri*, Mascota, 28 Feb. 1967; Jazmín, 19 Oct. 1966; Autlán, 2 May 1967; La Cuesta, 4 Apr. 1967 (Price & Emerson 1971); Autlán, no date; Cuatula, no date; Jazmín, no date; La Cuesta, no

date; Mascota, Talpa de Allende, no date; San Sebastián, no date; Nevajo de Colima, no date (Price & Hellenthal 1989b); 20 km S Ameca, 2223 m, no date; 9 mi. NW Mascota, 1,300 m, no date; El Jazmín, 1,763 m, no date (Demastes *et al.* 2012); *Pappogeomys bulleri albinasus*, Ciudad Granja, no date (Price & Hellenthal 1989b); 1 km SW La Primavera, 1,585 m, no date; Cerro Tequila, 7 mi S, 2 mi W Tequila, 2,900 m, no date (Demastes *et al.* 2012); *Pappogeomys bulleri amecensis*, Ameca, no date; *Pappogeomys bulleri infuscus*, Cerro Tequila; no date; *Pappogeomys bulleri lutulentus*, Sierra de Cuale, no date; Soyatlán del Oro, no date; W Ciudad Guzmán, no date; *Pappogeomys gymnururus gymnururus*, Jazmín, no date; W Ciudad Guzmán, no date (Price & Hellenthal 1989b).

Types: Holotype male and allotype female deposited in KSUC (12349).

Genbank Accesion Numbers: JF342595, JF342596, JF342600-JF342604, JF342606-JF342609, JF342625-JF342636.

***Geomydoecus (Geomydoecus) bulleri intermedius* Price & Hellenthal, 1989**

Geomydoecus bulleri intermedius Price & Hellenthal, 1989b: 282.

Colima: *Pappogeomys bulleri* subspecies, 3 km S Armería, 14 Dec. 1965, C. González B.; 1 km SE Manzanillo-Cuyutlán highway junction, 17 Dec. 1965, C. González B.; 4 km SW Armería, 16 Jul. 1964, C. González B. (Price & Hellenthal 1989b).

Type: Holotype male deposited in UMSP.

***Geomydoecus (Geomydoecus) bulleri melanuri* Price & Hellenthal, 1989**

Geomydoecus bulleri melanuri Price & Hellenthal, 1989b: 282.

Jalisco: *Pappogeomys bulleri melanurus*, Tecomate, 8 Dec. 1966, P.L. Clifton; 5 mi (8.0 km) S Purificación, 20 May 1949, J.R. Alcorn (Price & Hellenthal 1989b).

Type: Holotype male deposited in KSUC (33453).

***Geomydoecus (Geomydoecus) burti* Price & Hellenthal, 1989**

Geomydoecus burti Price & Hellenthal, 1989b: 283.

Jalisco: *Pappogeomys bulleri burti*, 5 mi (8.0 km) NE Barra de Navidad, 23 Nov. 1950, J.R. Alcorn; 10 mi (16.1 km) WSW La Huerta, 30 Jun. 1966, P.L. Clifton (Price & Hellenthal 1989b).

Colima: *Pappogeomys bulleri burti*, 6 mi (9.7 km) N Santiago, 26 Apr. 1961, M.R. Lee; 4 mi (6.4 km) S Santiago, 18 Mar. 1961, J.R. Alcorn (Price & Hellenthal 1989b).

Type: Holotype male deposited in KSUC (39817).

***Geomydoecus (Geomydoecus) californicus* (Chapman, 1897)**

Trichodectes californicus Chapman, 1897: 186, fig. 2.

Baja California: “*Perognathus* sp.” [in error], no date (Chapman 1897); *Thomomys bottae anitae*, no date, J.A. Allen (Price & Emerson 1971); *Thomomys bottae juarezensis*, El Rayo, 14 mi (22.5 km) N Laguna Hanson, no date; Sierra Juárez, El Progreso, no date; *Thomomys bottae martirensis*, San Pedro Mártir Mts: La Grulla, no date, J.A. Allen; Vallecitos, no date; *Thomomys bottae nigricans*, Agua Hechicera, no date; *Thomomys bottae sanctidiegi*, W coast, 5 mi (8.0 km) S of Monument 258; 5 mi (8.0 km) S of Misión San Miguel (Price & Hellenthal 1981a).

Coahuila: *Thomomys bottae analogus*, no date (Price & Emerson 1971).

Chihuahua: *Thomomys umbrinus*, no date (Price & Emerson 1971).

Nuevo León: *Thomomys bottae analogus*, no date (Price & Emerson 1971).

Sinaloa: *Thomomys bottae*, no date; *Thomomys bottae simulus*, no date; *Thomomys bottae sinaloae*, no date; *Thomomys umbrinus*, no date (Price & Emerson 1971).

Types: The holotype female is considered lost since 1916 (Werneck 1945). Therefore, a neotype was erected by Price & Hellenthal (1981a) from *Thomomys bottae bottae* and deposited in EMEC

Note: The record of *G. californicus* from *Perognathus* sp. is considered an erroneous association because this louse species has been recorded from rodents of the genus *Thomomys* only (see Price & Emerson 1971).

***Geomydoecus (Geomydoecus) centralis* Price & Hellenthal, 1981**

Geomydoecus centralis Price & Hellenthal, 1981a: 4, fig. 12.

Chihuahua: *Thomomys bottae toltecus*, 1 mi (1.6 km) W of El Carmen, no date, 5 mi (8.0 km) SE of Galeana, no date (Price & Hellenthal 1981a).

Sinaloa: *Thomomys bottae bottae*, 7.5 mi (12.1 km) N of Higuera de Zaragoza, no date; *Thomomys bottae sinaloae*, 5 mi (8.0 km) N of San Blas, no date (Price & Hellenthal 1981a).

Sonora: *Thomomys bottae camoae*, 14 mi (22.5 km) N of Ciudad Obregón, no date; Camoa, Rio Mayo, no date; Presa Obregón, no date; *Thomomys bottae estanciae*, La Estancia, 6 mi (9.7 km) N of Nacori, no date; *Thomomys umbrinus*, 2 mi (3.2 km) E of Guiricoba, no date (Price & Hellenthal 1981a).

Type: Holotype male deposited in UMSP.

***Geomydoecus (Geomydoecus) chapini* Werneck, 1945**

Geomydoecus chapini Werneck, 1945: 117.

Chiapas: *Orthogeomys hispidus chiapensis*, no date (Price & Emerson 1971); 7.5 mi (12.1 km) NW of Pueblo Nuevo, no date; Ocosingo, no date (Price & Hellenthal 1976).

Tabasco: “*Geomys tropicalis*” [in error], no date (Werneck, 1945; Price & Emerson 1971; Price & Hellenthal 1976); *Orthogeomys hispidus teapensis*, Montecristo, no date (Price & Hellenthal 1976).

Type: Holotype male deposited in USNM (218035).

Notes: Werneck (1945) gave the type host as “*Geomys personatus tropicalis* Goldman”, but Emerson & Price (1971) regarded it in error and suggested that the correct host may be *Orthogeomys hispidus chiapensis*.

***Geomydoecus (Geomydoecus) chihuahuae chihuahuae* Price & Hellenthal, 1979**

Geomydoecus chihuahuae chihuahuae Price & Hellenthal, 1979: 271, figs 14–18.

Chihuahua: *Thomomys sheldoni chihuahuae*, 9.6 km W, 10 km N of Guachochic; Rancho el Pajarito, 25 mi (40.2 km) W of Tomochic; Yaguirachic, 130 mi (209.2 km) W of Chihuahua; *Thomomys umbrinus juntae*, 4 mi (6.4 km) S, 1 mi (1.6 km) W of Santo Tomas; 7 mi (11.3 km) WSW and 8.4 mi (13.5 km) W of Cuauhtemoc; 11 mi (17.7 km) E of La Junta; Anderson, Arroyo Nesteno, Sierra del Nido; Rosario; *Thomomys umbrinus madreensis*, 1 mi (1.6 km) W of Colonia García; 1.3 mi (2.1 km) E of Chuhuichupa, 25–26 Jul. 1976, J.L. Patton; 1.5 mi (2.4 km) NE of Madera, 24 Jul. 1976, J.L. Patton; 2.4 mi (3.9 km) NE of Colonia García; 3 mi (4.8 km) SW of Pacheco, 2 Nov. 1954, J.R. Alcorn; 9 mi (14.5 km) SE of Colonia García, 22 May 1936, S.B. Benson; Meadow Valley, 5 mi (8.0 km) S of Colonia García, 28–30 Aug. 1948, W.C. Russell; Valle Moctezuma, 11.6 mi (18.7 km) SE of Colonia García, 27 Jul. 1926, J.L. Patton; Water Canyon, 3 mi (4.8 km) S of Colonia García, 20–21 May 1936, S.B. Benson (Price & Hellenthal 1979).

Type: Holotype male deposited in UMSP.

***Geomydoecus (Geomydoecus) chihuahuae emersoni* Price & Hellenthal, 1979**

Geomydoecus chihuahuae emersoni Price & Hellenthal, 1979: 271, fig. 19.

Chihuahua: *Thomomys sheldoni chihuahuae*, 1.8 mi (2.9 km) E of El Vergel, 17 Jul. 1976, J.L. Patton (Price & Hellenthal 1979).

Durango: *Thomomys sheldoni chihuahuae*, 1 mi (1.6 km) E of La Ciudad, 13–14 Jul. 1976, J.L. Patton; 7.7 mi (12.4 km) W of La Ciudad, 21 Jul. 1970, J.L. Patton; 10 mi (16.1 km) SW of El Salto, 26 Jun. 1955, R.W. Dickerman (Price & Hellenthal 1979).

Type: Holotype male deposited in UMSP.

***Geomydoecus (Geomydoecus) clausonae* Price & Hellenthal, 1981**

Geomydoecus clausonae Price & Hellenthal, 1981a: 9, figs 18–21.

Baja California: *Thomomys bottae anitae*, 6 km N, 10 km E of Santiago, 16 Jul. 1977, M.S. Hafner; El Sauce, Victoria Mts, no date; Todos Santos, no date; Eureka, no date; Laguna Valley, Mictoria Mts, no date; Miraflores, no date; San Jose del Cabo, no date; Todos Santos, no date; 5 km W of Triunfo, no date; 7 mi (11.3 km) NW of San Bartolo, no date (Price & Hellenthal 1981a).

Baja California Sur: *Thomomys bottae anitae*, Sierra de la Laguna, no date (Price & Hellenthal 1981a).

Type: Holotype female deposited in UMSP.

***Geomydoecus (Geomydoecus) cliftoni* Price & Hellenthal, 1981**

Geomydoecus cliftoni Price & Hellenthal, 1981b: 40, figs 8–11.

Jalisco: *Thomomys umbrinus* subspecies, Tuxpán, 14 May 1967, P.L. Clifton; 5 mi (8.0 km) W Bolanos, no date; 9 mi (14.5 km) W Yahualica, no date (Price & Hellenthal 1981b).

Types: Holotype female deposited in KSUC (112246).

***Geomydoecus (Geomydoecus) copei* Werneck, 1945**

Geomydoecus copei Werneck, 1945: 114, figs 38, 39.

Puebla: *Orthogeomys hispidus hispidus*, 1 km NW of Zihuateutla, no date (Price & Hellenthal 1976).

Querétaro: *Orthogeomys hispidus concavus*, Pinal de Amoles, no date (Price & Hellenthal 1976).

San Luis Potosí: *Orthogeomys hispidus concavus*, 2 mi. (3.2 km) SW of Xilitla, no date; 37 mi. (59.6 km) S of Valles, no date (Price & Hellenthal 1976).

Tamaulipas: *Orthogeomys hispidus negatus*, 68.5 km S of Ciudad Victoria, no date; 70 km S of Ciudad Victoria, no date; 2 km W of El Carrizo, no date; Rancho del Cielo, no date (Price & Hellenthal 1976).

Veracruz: “*Geomys mexicanus*” [in error], Misantla (Werneck 1945); *Orthogeomys hispidus hispidus*, 4 km of Tlapacoyan, no date; 5 mi (8.1 km) N of Jalapa, no date (Price & Hellenthal 1976); *Orthogeomys hispidus torridus*, Misantla, no date (Price & Emerson 1971); 12.5 mi. (19.7 km) N of Tihuatlan, no date; 3 km W of Gutiérrez Zamora, no date (Price & Hellenthal 1976).

Types: Holotype and allotype deposited in the NHML.

Notes: Werneck (1945) identified the original host as “*Geomys mexicanus*”, but Emerson & Price (1971) concluded that the correct species was *Orthogeomys hispidus torridus*, because this is the only pocket gopher found in Misantla.

***Geomydoecus (Geomydoecus) coronadoi coronadoi* Barrera, 1961**

Geomydoecus geomydis coronadoi Barrera, 1961: 116, figs 1, 2, 4–6.

Hidalgo: *Cratogeomys perotensis*, Irolo, 2500 m, no date (Light & Hafner 2007).

Tlaxcala: *Cratogeomys perotensis*, 8 km N Tlaxco, 2887 m, no date (Light & Hafner 2007).

Puebla: *Cratogeomys perotensis*, 2.5 km N Zaragosa, 2250 m, no date (Light & Hafner 2007).

Veracruz: *Cratogeomys merriami estor*, Las Vigas (Barrera 1961); 2 km and 3 km E Las Vigas, no date; 6 km SSE Altotonga, no date; 7 km SE Jalacingo, no date; *Cratogeomys perotensis*, 10 km SE Perote, no date; 1 mi (1.6 km) NW Pescados, no date (Price & Hellenthal 1989a); 9 km NE Perote, 2440 m, no date (Light & Hafner 2007).

Note: The original host was given as “*Cratogeomys perotensis estor* Merriam” by Barrera (1961).

Types: Holotype and allotype deposited in CNIABM.

***Geomydoecus (Geomydoecus) coronadoi saccharalis* Price & Hellenthal, 1989**

Geomydoecus coronadoi saccharalis Price & Hellenthal, 1989a: 394.

Puebla: *Cratogeomys merriami saccharalis*, 2 mi (3.2 km) S Atlixco, 9 Aug. 1954, R.W. Dickerman (Price & Hellenthal, 1989a).

Types: Holotype female deposited in KSUC (62518).

***Geomydoecus (Geomydoecus) coronadoi submerriami* Price & Hellenthal, 1989**

Geomydoecus coronadoi submerriami Price & Hellenthal, 1989a: 393.

Distrito Federal: *Cratogeomys merriami merriami*, 4 mi (6.4 km) S Churubusco, no date; Gregorio Atapulco, no date (Price & Hellenthal 1989a).

Estado de Mexico: *Cratogeomys merriami merriami*, 5 mi (8.0 km) S, 1 mi (1.6 km) W Texcoco, 19 Jul. 1952, R.J. Russell; 14 km S, 2.5 km, 5 km W Rio Frío Chapingo, no date; 5 mi (8.0 km) E Amecameca, no date (Price & Hellenthal 1989a).

Puebla: *Cratogeomys merriami merriami*, Texmelucán, no date (Price & Hellenthal 1989a).

Tlaxcala: *Cratogeomys merriami merriami*, 8 km S, 7 km W Calpulalpán, no date (Price & Hellenthal 1989a).

Type: Holotype female deposited in KSUC (48540).

***Geomydoecus (Geomydoecus) crovelloi* Price & Hellenthal, 1981**

Geomydoecus crovelloi Price & Hellenthal, 1981a: 18, figs 32–34.

Sonora: *Thomomys umbrinus sonoriensis*, 1 mi (1.6 km) N Sahuaripa 19 Jul. 1975, J.L. Patton; 3.5 mi (5.6 km) S Moctezuma, no date; E bank and W bank Río Yaqui at El Novillo, no date (Price & Hellenthal 1981a).

Types: Holotype male deposited in UMSP.

***Geomydoecus (Geomydoecus) expansus* (Dugés, 1902)**

Trichodectes geomydis var *expansus* Dugés, 1902: 185.

Coahuila: *Cratogeomys castanops castanops*, 12 mi SE Hacienda La Mariposa, no date; 26 mi NE Piedro Blanco, no date; La Gacha, no date; Río Grande 17 mi S Dryden, no date; Villa Acuña, no date; *Cratogeomys castanops consitus*, 1 mi S Hermanas, no date; 1 mi SW San Pedro de las Colonias, 8 Feb. 1951, J.R. Alcorn; 2 mi E Torreón, 20 Jan. 1951, A.A. Alcorn; 2 mi N Monclova, no date; 3 mi N 9 mi E El Pino; 6 mi E Jaco, no date; 8 mi E 2 mi S Americanos, 19 May 1954, R.W. Dickerman; 12 mi N 10 mi E Parras, no date; 18 mi S 14 mi E Tanque Alvarez, no date; 21 mi S 11 mi E Australia, no date; 50 mi N 20 mi W Ocampo, no date; Tlahualilo, 17 Mar. 1926, E.A. Goldman; *Cratogeomys goldmani goldmani*, 1 mi S Jimulco, no date; 1.5 mi NW Ocampo, no date; Pico de Jimulco, no date; *Cratogeomys goldmani subnubilus*, 1 mi N Agua Nueva, no date (Price & Hellenthal 1975b).

Chihuahua: *Cratogeomys castanops consitus*, 1 mi S Ojinaga, no date; 25 mi S Gallego, no date; Station Arados, no date (Price & Hellenthal 1975b).

Durango: *Cratogeomys castanops consitus*, 12 mi E La Zarca, no date; 1.5 mi NW Ocampo, no date; *C. goldmani goldmani*, Rio Nazas 6 mi NW Rodeo, no date (Price & Hellenthal 1975b).

Jalisco: *Cratogeomys fumosus angustirostris* (as “*Pappogeomys zinseri*”), no date, questionable host record (Price & Emerson 1971).

San Luis Potosí: *Cratogeomys goldmani subnubilus*, 14 mi N 29 mi Ciudad del Maiz, no date (Price & Hellenthal 1975b).

Tamaulipas: *Cratogeomys goldmani subnubilus*, 8 mi N Tula, no date; 9 mi SW Tula, no date; *Cratogeomys goldmani goldmani*, Nicolás 56 km NW Tula, no date (Price & Hellenthal 1975b).

Zacatecas: *Cratogeomys goldmani subnubilus*, 15 mi S Concepción del Oro, no date (Price & Hellenthal 1975b); *Cratogeomys goldmani goldmani*, no date (Price & Emerson 1971).

No State: *Cratogeomys fumosus fumosus*, no data; *Thomomys umbrinus*, no data (Duges 1902).

Note: The following names of hosts, which were used in some of the above publications, have been updated: “*Cratogeomys castanops jucundus*”, “*Cratogeomys castanops perexiguus*”, “*Cratogeomys castanops peridoneus*”, “*Cratogeomys castanops subnubilus*”, “*Pappogeomys castanops goldmani*”, “*Cratogeomys castanops sordidulus*”, “*Cratogeomys castanops surculus*”, “*Cratogeomys castanops rubellus*”, “*Geomys mexicanus*”, “*Cratogeomys gymnurus*” and “*Cratogeomys zinseri*”.

***Geomydoecus (Geomydoecus) extimi* Price & Hellenthal, 1981**

Geomydoecus extimi Price & Hellenthal, 1981b: 41, figs 14, 17.

Nayarit: *Thomomys atrovarius atrovarius*, 6 mi (9.7 km) NE El Colomo, 17 Feb. 1967, P.L. Clifton (Price & Hellenthal 1981b).

Type: Holotype male deposited in KSUC (111690).

Note: The original host was identified by Price & Hellenthal (1981b) as “*Thomomys umbrinus extimus* Nelson and Goldman”.

***Geomydoecus (Geomydoecus) fulvescens* Price & Emerson, 1971**

Geomydoecus fulvescens Price & Emerson, 1971: 256, fig. 139.

Puebla: *Cratogeomys fulvescens*, Chalchicomula, no date; Guadalupe Victoria, no date (Price & Hellenthal 1989a); 1 km NW Zacatepec, 2380 m, no date; 1 km SE Ciudad Serdán, 2700 m, no date (Light & Hafner 2007).

Tlaxcala: Huamantla, 2380 m, no date (Light & Hafner 2007).

Veracruz: *Cratogeomys fulvescens*, Limón, 19 Nov. 1946 (Price & Emerson 1971); 2 km E and 2 km N of Perote, no date; 2 km W and 3 km W Limón, no date (Price & Hellenthal 1989a).

Types: Holotype male and allotype female deposited in KSUC (19351).

Note: Price & Emerson (1971) identified the type host as “*Pappogeomys merriami fulvescens*”.

***Geomydoecus (Geomydoecus) hoffmanni* Price & Hellenthal, 1976**

Geomydoecus hoffmanni Price & Hellenthal, 1976: 698, figs 13, 14.

Oaxaca: *Orthogeomys hispidus tehuantepecus*, 2 mi. (3.2 km) S of Tollocito (Price & Hellenthal 1976).

Veracruz: *Orthogeomys hispidus hispidus*, 3 km N of Presidio, no date; 4km WNW of Fortín, no date; Potrero Viejo, 5 km W of Potrero Viejo, no date; *Orthogeomys hispidus isthmicus*, 14 km SW of Coatzacoalcos, 10 Feb. 1957, W.W. Dalquest; 2 mi (3.2 km) E, 2 mi (3.2 km) N of Catemaco, 5 Jun. 1964, G.C. Bateman; 5 mi (8.1 km) SE of Lerdo de Tejada, 22 Jul. 1955, R.H. Baker; Sierra San Andrés Tuxtla, 15 Aug. 1955, A.S. Leopold; Jaltipán, 28 Apr. 1896, Nelson and Goldman; *Orthogeomys hispidus torridus*, 15 km W of Piedras Negras, no date (Price & Hellenthal 1976).

Types: Holotype male deposited in KSUC (19359).

***Geomydoecus (Geomydoecus) jaliscoensis* Price & Hellenthal, 1981**

Geomydoecus jaliscoensis Price & Hellenthal, 1981b: 40.

Jalisco: *Thomomys umbrinus* subspecies, 2 mi (3.2 km) ESE Plan de Barrancas, 11 Mar. 1966, P.L. Clifton (Price & Hellenthal 1981b).

Type: Holotype female deposited in KSUC (105652).

***Geomydoecus (Geomydoecus) jonesi* Price & Emerson, 1971**

Geomydoecus jonesi Price & Emerson, 1971: 249, figs 13, 20, 29, 49, 66, 90, 100.

Puebla: *Orthogeomys grandis felipensis*, Tilapa, 15 Aug. 1954 (Price & Emerson 1971).

Types: Holotype male and allotype female deposited in KSUC (62523).

***Geomydoecus (Geomydoecus) limitaris bakeri* Price & Hellenthal, 1981**

Geomydoecus limitaris bakeri Price & Hellenthal 1981a: 12.

Chihuahua: *Thomomys bottae modicus*, 2 mi (3.2 km) W of Villa Ahumada, no date (Price & Hellenthal 1989).

Sonora: *Thomomys bottae modicus*, Santa Cruz, no date (Price & Hellenthal 1989).

***Geomydoecus (Geomydoecus) limitaris limitaris* Price & Hellenthal, 1981**

Geomydoecus limitaris limitaris Price & Hellenthal 1981a: 10, figs 22–23.

Coahuila: *Thomomys bottae humilis*, 9 mi (14.5 km) W, 1 mi (1.6 km) S of Villa Acuña; *Thomomys bottae angustidens*, Sierra del Pino, 5 mi (8.0 km) S, 3 mi (4.8 km) W, 6 mi (9.7 km) N of Acehuches, no date; *Thomomys bottae villai*, 7 mi (11.3 km) S, 2 mi (3.2 km) E of Boquillas, no date (Price & Hellenthal 1981a).

***Geomydoecus (Geomydoecus) limitaris tolteci* Price & Hellenthal, 1981**

Geomydoecus limitaris tolteci Price & Hellenthal 1981a: 14, fig. 24.

Chihuahua: *Thomomys bottae toltecus*, Casas Grandes Viejo, no date; Rancho El Peñasco, 5.6 mi, (9.0 km) E of Janos, no date (Price & Hellenthal 1981a).

Sonora: *Thomomys bottae modicus*, 40 km S of Nogales, no date; 2 mi (3.2 km) S La Casita, no date (Price & Hellenthal 1981a).

***Geomydoecus (Geomydoecus) martini* Price & Hellenthal, 1975**

Geomydoecus martini Price & Hellenthal, 1975b: 38, figs 1, 13, 14.

Coahuila: *Cratogeomys castanops consitus*, 2 mi N Santa Cruz, no date; 3 mi S 3 mi E Muralla; N Foot Sierra Guadalupe 9 mi S 5 mi W General Cepeda, no date; San Antonio de Jacal, no date; *Cratogeomys goldmani subnubilus*, 2 mi E 2 mi N San Antonio de las Alazanas, no date; 4 mi S 6 mi E Saltillo, no date; 7 mi S 4 mi E Bella Union, no date; 8 mi N La Ventura, 22 Jul. and 17 Nov. 1949, W.K. Clark; 12 mi S 2 mi E Arteaga, no date; 12 mi W San Antonio de las Alazanas, no date; Sierra Guadalupe 11 mi S 4 mi W General Cepeda, 18 Apr. 1953, G.H. Heinrich (Price & Hellenthal 1975b).

Durango: *Cratogeomys goldmani goldmani*, Hacienda de Atotonilco, no date (Price & Hellenthal 1975b).

Nuevo León: *Cratogeomys goldmani subnubilus*, 5 mi W Ascensión, 23–24 Feb. 1954, R.W. Dickerman; 1 mi W Dr Arroyo, 17–18 Feb. 1954, R.W. Dickerman; 7 mi NW Providencia, 23 Apr. 1965, P.L. Clifton; Laguna, 25–26 Feb. 1954, R.W. Dickerman (Price & Hellenthal 1975b).

San Luis Potosí: *Cratogeomys goldmani goldmani*, 4.5 mi SW Herradura, no date (Price & Hellenthal 1975b).

Tamaulipas: *Cratogeomys goldmani goldmani*, Nicolás 56 km NW Tula, no date; *Cratogeomys goldmani subnubilus*, 4 mi N Jaumave, no date; Miquihuana, no date (Price & Hellenthal 1975b).

Zacatecas: *Cratogeomys castanops consitus*, 8 mi S Majoma, no date; Concepción del Oro, no date; *C. goldmani goldmani*, Canitas, no date; Villa de Cos, no date; *Cratogeomys goldmani subnubilus*, 22 mi SW Concepción del Oro, 5 Jan. 1964, G.W. Jones (Price & Hellenthal 1975b).

Type: Holotype female deposited in KSUC (58108).

Notes: The following names of hosts, which were used in some of the above publications, have been updated: “*Pappogeomys castanops subsimus*”, “*Pappogeomys castanops subnubilus*”, “*Pappogeomys castanops elibatus*”, “*Pappogeomys castanops goldmani*”, “*Pappogeomys castanops rubellus*”, “*Pappogeomys castanops planifrons*” and “*Pappogeomys castanops surculus*”.

***Geomydoecus (Geomydoecus) mcgregori* Price & Emerson, 1971**

Geomydoecus mcgregori Price & Emerson, 1971: 253, figs 18, 19, 33, 65, 89, 110.

Colima: *Cratogeomys fumosus*, Colima, 25 Nov. 1950, J.R. Alcorn; Colima, 14 Mar. 1892, E.W. Nelson (Price & Emerson 1971); 5 km SE Colima, no date; 2 mi (3.2 km) W Colima, no date; 4 mi (6.4 km) SW Colima, no date (Price & Hellenthal 1989a).

Jalisco: *Cratogeomys fumosus fumosus*, no date (Price & Emerson 1971); *Cratogeomys fumosus angustirostris*, 3 mi (4.8 km) WSW Mazamitla, no date; 4 mi (6.4 km) W Mazamitla, no date; 5 mi (8.0 km) SW Mazamitla, no date; 8 mi (12.8 km) E Jilotlan de los Dolores, no date; 3 km S, 14 km W Ciudad Guzman, no date; 1 mi (1.6 km) NE Tala, no date; 2 mi (3.2 km) N Ciudad Guzmán, no date; 2.5 mi (4.0 km) ENE Jazmín, no date; 2.5 mi (4.0 km) W Tala, no date; 3 mi (4.8 km) W Tala, no date; 3.5 mi (5.6 km) WNW Zapoltitic, no date; 4 mi (6.4 km) ENE Jazmín, no date; 9 mi (14.5 km) N Atoyac, no date; 10 mi (16.1 km) W Ciudad Guzman, no date; 13 mi (20.9 km) S, 15 mi (24.1 km) W Guadalajara, no date; 15 mi (24.1 km) E Ameca, no date; 19 mi (30.6 km) S, 9 mi (14.5 km) W Guadalajara, no date; Las Canoas; Nevado de Colima, no date; Zapotlan, no date (Price & Hellenthal 1989a). Questionable host records: *Pappogeomys bulleri bulleri* (as “*Pappogeomys tylorhinus atratus*”), no date (Price & Emerson 1971); *Pappogeomys bulleri bulleri*, 7 km S, 21 km W Ciudad Guzmán, no date; Nevado de Colima, no date (Price & Hellenthal 1989a).

Michoacán: *Pappogeomys* sp., no date (Price & Emerson 1971); *Cratogeomys fumosus angustirostris*, 1 km N, 2 km W Nahuatzen, no date; 1 mi (1.6 km) N Tinguinden, no date; 2 mi (3.2 km) SW Zacapu, no date; 4 mi (6.4 km) NE Tarecuato, no date; 4.5 mi (7.2 km) NE Tarecuato, no date; 8 mi (12.8 km) SE Carapan, no date; 10 mi (16.1 km) SW Nuevo San Juan, no date; W slope Sierra Patamba, no date (Price & Hellenthal 1989a). Questionable host record: *Zygoeomys trichopus trichopus*, 6 km N, 2 km W Tancitaro, no date (Price & Hellenthal 1989a).

Types: Holotype male and allotype female deposited in KSUC (39819).

Notes: The following names of hosts, which were used in some of the above publications, have been updated: “*Cratogeomys tylorhinus angustirostris*”, “*Cratogeomys gymnurus gymnurus*”, “*Cratogeomys gymnurus tellus*”, “*Cratogeomys tylorhinus zodiacus*”, “*Cratogeomys tylorhinus atratus*”, “*Cratogeomys gymnurus russelli*” and “*Pappogeomys bulleri nelsoni*”.

***Geomydoecus (Geomydoecus) merriami* Price & Emerson, 1971**

Geomydoecus merriami Price & Emerson, 1971: 255, fig. 136.

Estado de Mexico: *Cratogeomys merriami*, Nevado de Toluca, 10 and 22 Mar. 1963 (Price & Emerson 1971); *Cratogeomys fumosus tylorhinus*, 12 mi (19.3 km) NNE Valle de Bravo, no date; Nevado de Toluca, no date (Price & Hellenthal 1989a).

Morelos: *Cratogeomys merriami*, La Piedra, Lagunas de Zempoala, 26 Mar. 1963 (Price & Emerson 1971).

Types: Holotype female and allotype male deposited in USNM (B 64691).

***Geomydoecus (Geomydoecus) mexicanus* Price & Emerson, 1971**

Geomydoecus mexicanus Price & Emerson, 1971: 256, figs 1, 2, 15, 16, 41, 53, 68, 87, 141, 142.

Puebla: *Cratogeomys merriami saccharalis*, Atlixco, 9 Aug. 1954, R.W. Dickerman (Price & Emerson 1971); 2 mi (3.2 km) S and SW of Atlixco, no date (Price & Hellenthal 1989a); 1 km S Atlixco; 2 km and 3 km S of Atlixco, 6300 ft, no date (Light & Hafner 2007).

Types: Holotype male and allotype female deposited in KSUC.

GenBank Accession Numbers: DQ200304, DQ200306, DQ200317, DQ200344.

***Geomydoecus (Geomydoecus) musculi* Price & Hellenthal, 1981**

Geomydoecus musculi Price & Hellenthal, 1981b: 39.

Sinaloa: *Thomomys atrovarius*, 8 km N Rosario at Villa Union, near Mazatlán, no date, J.A. Allen; 3 mi (4.8 km) E El Roble, no date; 1 km N Siqueiros, no date; 5 mi (8.0 km) WSW La Cruz, no date; *Thomomys atrovarius atrovarius*, 3 mi (4.8 km) SW Santa Cruz at Copala, Plomosas, 18 Feb. 1964, P.L. Clifton; 8 mi (12.9 km) SE San Ignacio, no date; 21 mi (33.8 km) NE Rosario, no date (Price & Hellenthal 1981b).

Type: Holotype male deposited in KSUC (97135).

Notes: Price & Hellenthal (1981b) identified the hosts as “*Thomomys umbrinus musculus*” and “*Thomomys umbrinus atrovarius*”.

***Geomydoecus (Geomydoecus) nadleri* Price & Hellenthal, 1989**

Geomydoecus nadleri Price & Hellenthal, 1989b: 283, figs 3, 6.

Nayarit: *Pappogeomys bulleri nayaritensis*, 6 mi (9.7 km) S Ixtlán del Río, 2 Sep. 1950, J.R. Alcorn; Jalcocotán, 11 Mar. 1950 (Price & Hellenthal 1989b); *Pappogeomys bulleri albinasus*, 8 km W Ahuacatlán, 1,000 m (Demastes *et al.* 2012).

Jalisco: *Pappogeomys bulleri nayaritensis*, Magdalena, 14 Sep. 1950, J.R. Alcorn (Price & Hellenthal 1989b).

Type: Holotype male in deposited in KSUC (39802).

Genbank Accession Numbers: JF342599, JF342619-JF342624.

***Geomydoecus (Geomydoecus) nayaritensis* Price & Hellenthal, 1981**

Geomydoecus nayaritensis Price & Hellenthal, 1981b: 43.

Nayarit: *Thomomys atrovarius atrovarius*, 3.5 mi (5.6 km) SSW Las Varas, 9 Nov. 1950, J.R. Alcorn; *Thomomys umbrinus* subspecies, Navarrete, no date (Price & Hellenthal 1981b).

Type: Holotype male deposited in KSUC (39789).

Note: The type host was identified as “*Thomomys umbrinus extimus*”.

***Geomydoecus (Geomydoecus) pattoni* Price & Hellenthal, 1979**

Geomydoecus pattoni Price & Hellenthal, 1979: 272, figs 20–22.

Durango: *Thomomys sheldoni chihuahuae*, 3 mi (4.8 km) NW of El Salto, 23 Jul. 1970, J.L. Patton; 83 km SW of Durango, 5 May 1960, A.L. Gardner; 1.3 mi (2.1 km) NE of Mil Dios, 31 May 1974, J.L. Patton; 3 mi (4.8 km) E of Las Adjuntas, 29 Jun. 1955, R.W. Dickerman; 6 mi (9.7 km) SW of El Salto, 1–4 Jun. 1963, A.L. Gardner (Price & Hellenthal 1979).

Type: Holotype male deposited in UMSP.

Note: Price & Hellenthal (1979) identified the type host as “*Thomomys umbrinus chihuahuae*”.

***Geomydoecus (Geomydoecus) perotensis irolonis* Price & Emerson, 1971**

Geomydoecus perotensis irolonis Price & Emerson, 1971: 256.

Hidalgo: *Cratogeomys* sp., Apam, 24 Jul. 1952 (Price & Emerson 1971); Irolo, no date (Price & Hellenthal 1989a); *Cratogeomys merriami*, 85 km N Mexico City, no date; 4 mi (6.4 km) and 6 mi (9.7 km) S Pachuca, no date (Price & Hellenthal 1989a).

Edomex: *Cratogeomys merriami*, 5 km NW Texcoco, no date; Pirámides de San Juan Teotihuacán, no date; San Agustín Acolman, no date; Venta de Carpio, no date (Price & Hellenthal 1989a).

Types: Holotype female and allotype male deposited in KSUC (48539).

Note: The type host was identified as “*Pappogeomys merriami irolonis*” by Price & Emerson (1971), and an additional host as “*Pappogeomys tylorhinus tylorhinus*” by Price & Hellenthal (1989a).

***Geomydoecus (Geomydoecus) perotensis perotensis* Price & Emerson, 1971**

Geomydoecus perotensis perotensis Price & Emerson, 1971: 256, figs 3, 77, 140.

Hidalgo: *Cratogeomys perotensis*, Irolo, 2500 m, no date (Light & Hafner 2007).

Puebla: *Cratogeomys perotensis*, 2.5 km N Zaragoza, 2250 m, no date (Light & Hafner 2007).

Tlaxcala: *Cratogeomys perotensis*, 8 km N Tlaxco, 2887 m, no date (Light & Hafner 2007).

Veracruz: *Cratogeomys perotensis*, Las Vigas, 4 Nov. 1946; Alotonga, 11 Nov. 1946 (Price & Emerson 1971); 1 km NW Pescados, no date; 10 km NE Perote, no date; 2 km E Las Vigas, no date; 3 km E Las Vigas, no date; 6 km SSE Alotonga, no date; 2 km S Sierra de Agua, no date; 7 km SE Jalacingo, no date (Price & Hellenthal 1989a); 2 km S Las Vigas; 9 km NE Perote; 10 km NE Perote, no date (Light & Hafner 2007).

No State: *Cratogeomys perotensis*, no date (Price & Emerson 1971).

Types: Holotype male and allotype female deposited in KSUC (19338).

Genbank Accession Numbers: DQ200300, DQ200309, DQ200313, DQ200327, DQ200329, DQ200331, DQ200335, DQ200337, DQ200339, DQ200341, DQ200349, DQ200354.

Note: The hosts were identified as “*Pappogeomys merriami estor*” and by “*Pappogeomys merriami perotensis*” by Price & Emerson (1971) and Price & Hellenthal (1989a).

***Geomydoecus (Geomydoecus) polydentatus angustirostris* Price & Hellenthal, 1989**

Geomydoecus polydentatus angustirostris Price & Hellenthal, 1989a: 396.

Jalisco: *Cratogeomys fumosus angustirostris*, 3 mi (4.8 km) WSW and 4 mi (6.4 km) W Mazamitla, 18 Oct. 1950, J.R. Alcorn (Price & Hellenthal 1989a).

Michoacán: *Cratogeomys fumosus angustirostris*, 1 km N, 2 km W Nahuatzen, no date; 6.5 km S Patzcuaro, no date; 1 mi (1.6 km) N Tinguinden, no date; 2 mi (3.2 km) E San Gregorio, no date; 2 mi (3.2 km) N Patzcuaro, no date; 3 mi (4.8 km) S Patzcuaro, no date; 4.5 mi (7.2 km) NE Tarecuato, no date; 5 mi (8.0 km) SE Opoepo, no date; 5 mi (8.0 km) S Patzcuaro, no date; 8 mi (12.9 km) E Opoepo, no date; 10 mi (16.1 km) SW Nuevo San Juan, no date; 16 mi (25.8 km) W Ciudad Hidalgo, no date; W slope Sierra Patamba, no date (Price & Hellenthal 1989a).

Type: Holotype male deposited in KSUC (39815).

Note: Price & Hellenthal, 1989a identified the hosts as “*Cratogeomys tylorhinus angustirostris*” and “*P. g. imparilis*”.

***Geomydoecus (Geomydoecus) polydentatus polydentatus* Price & Emerson, 1971**

Geomydoecus polydentatus Price & Emerson, 1971: 255, figs 25, 72, 95, 137.

Distrito Federal: *Cratogeomys fumosus tylorhinus*, Colonia del Valle, no date (Price & Hellenthal 1989a).

Estado de Mexico: *Cratogeomys fumosus tylorhinus*, 5 km NW Texcoco, no date; 14 mi (22.5 km) NW Toluca, no date; El Río (= San Bernabé), no date; N slope Nevado de Toluca, no date; Pirámides de San Juan Teotihuacán, no date; San Agustín Acolman, no date; Venta de Carpio, no date (Price & Hellenthal 1989a).

Guanajuato: *Cratogeomys fumosus angustirostris*, no date (Price & Emerson 1971); 2 mi (3.2 km) and 5 mi (8.0 km) E Celaya (Price & Hellenthal 1989a).

Hidalgo: *Cratogeomys fumosus tylorhinus*, 85 km N Mexico City, no date; Marques, no date (Price & Hellenthal 1989a).

Jalisco: *Cratogeomys fumosus angustirostris*, Lagos de Moreno, 15 Oct. 1965; *Pappogeomys bulleri alcorni*, no date (Price & Emerson 1971); *Ceratogomys fumosus tylorhinus*, Lagos de Moreno, no date (Price & Hellenthal 1989a).

Types: Holotype male and allotype female deposited in KSUC (103348).

Notes: The hosts were identified by Price & Emerson (1971) and Price & Hellenthal (1989a) as: “*Pappogeomys zinseri*”, “*Pappogeomys alcorni*”, “*Pappogeomys tylorhinus brevirostris*”, “*Pappogeomys tylorhinus tylorhinus*” and “*Pappogeomys tylorhinus planiceps*”.

***Geomydoecus (Geomydoecus) pricei* Demastes *et al.*, 2012**

Geomydoecus pricei Demastes, Spradling, Hafner, Spies, Hafner & Light, 2012: 267, fig. 5.

Nayarit: *Pappogeomys bulleri nayaritensis*, La Libertad, 10 km NE Jalcocotánm, 1034m and 1524m elevation (Demastes *et al.* 2012).

Types: Holotype male and allotype female deposited in UMSP (1689.5).

Genbank Accession numbers: JF342598, JF342615- JF342618.

***Geomydoecus (Geomydoecus) quadridentatus* Price & Emerson, 1971**

Geomydoecus quadridentatus Price & Emerson, 1971: 240, figs 94, 106, 146.

Chihuahua: *Geomys arenarius arenarius*, Porvenir, 13 Nov. 1960 (Price & Emerson 1971).

***Geomydoecus (Geomydoecus) sinaloae* Price & Hellenthal, 1981**

Geomydoecus sinaloae Price & Hellenthal, 1981a: 17, fig. 31.

Sinaloa: *Thomomys bottae sinaloae*, 0.5 mi (0.8 km) E San Lorenzo, 1 May 1965; 6 km E El Fuerte; 2 km S El Dorado, no date; 5 km SW Los Mochis, no date; 1 mi (1.6 km) E Sinaloa de Leyva, no date; 2.5 mi (4.0 km) S and 4 mi (6.4 km) W El Fuerte, no date; 7.5 mi (12.1 km) ENE Altata, no date; S side of Rio Sinaloa, Sinaloa de Leyva, no date; *Thomomys bottae simulus*, 16 km NNE of Choix, no date (Price & Hellenthal 1981a).

Type: Holotype male deposited in KSUC (96639).

***Geomydoecus (Geomydoecus) subcalifornicus* Price & Emerson, 1971**

Geomydoecus subcalifornicus Price & Emerson, 1971: 240.

Baja California: *Thomomys bottae albatius*, 11 mi (17.7 km) E and 20 mi (32.2 km) E of Mexicali, no date; 20 mi (32.2 km) S of Pilot Knob, no date; 5 mi (8.0 km) E of Cerro Prieta, no date; *Thomomys bottae jojoe*, Sangre de Cristo, no date; *Thomomys bottae lucidus*, 6 mi (9.7 km) S and 3.5 mi (5.6 km) E of Mount Springs, no date; W side Laguna Salada, no date; *Thomomys bottae martirensis*, Concepción, no date; *Thomomys bottae proximarinus*, 16 mi (25.7 km) W and at Santo Tomás, no date; *Thomomys bottae siccovallis*, El Cajón Canyon, no date (Hellenthal & Price 1980).

Coahuila: *Thomomys bottae perditus* no date (Price & Emerson 1971).

Sonora: *Thomomys bottae simulus*, no date (Price & Emerson 1971); 1 mi (1.6 km) NW and at Alamos, no date; *Thomomys bottae basilicae*, 2 mi (3.2 km) SW and 1 mi (1.6 km) SW of Magdalena, no date; *Thomomys bottae camoae*, Nevajoa, no date; 1.7 mi (2.7 km) E of Soyopa, no date; *Thomomys bottae convergens*, 2.5 mi (4 km) SE of Rancho de Costa Rica, no date; *Thomomys bottae divergens*, 13.25 mi (21.3 km) S of Esqueda, no date; 1 mi (1.6 km) N and 11 mi (17.7 km) N of Huachinera, no date; 8 mi (12.9 km) N of Colonia Oaxaca, no date; *Thomomys bottae modicus*, Santa Cruz, no date; 23 mi (37 km) S and 5 mi (8 km) E of Nogales, no date; *Thomomys bottae pusillus*, 8.5 mi (13.7 km) N of Quitovac, no date; *Thomomys bottae winthropi*, 1 mi (1.6 km) SW and 14 mi (22.5 km) S of Hermasillo, no date; 1 mi (1.6 km) SW and 16.7 mi (26.9 km) N of Caborca, no date; *Thomomys umbrinus sonoriensis*, Bacanora, no date; *Thomomys umbrinus* subspecies, Guiricoba no date (Hellenthal & Price 1980).

Note: Price & Hellenthal (1980) identified one of the hosts as “*Thomomys bottae phasma*”.

***Geomydoecus (Geomydoecus) subnubili* Price & Hellenthal, 1975**

Geomydoecus subnubili Price & Hellenthal, 1975a: 406, figs 13, 14.

Coahuila: *Cratogeomys* sp., 1 mi (1.6 km) S of Jimulco, Pico de Jimulco, no date; *Cratogeomys castanops consitus*, 2 mi (3.2 km) N of Santa Cruz, no date; 3 mi (4.8 km) S and 3 mi (4.8 km) E of Muralla, no date; 9 mi (14.4 km) S and 5 mi (8.0 km) W of General Cepeda, no date; 21 mi (33.6 km) S and 11 mi (17.6 km) E of Australia, no date; N foot Sierra Guadalupe, no date; San Antonio de Jaral, no date; *Cratogeomys goldmani subnubilis*, 1 mi (1.6 km) N of Agua Nueva, 18 Jul. 1949, W.K. Clark; 3 mi (4.8 km) NE of San Antonio de las Alazanas, no date; 4 mi (6.4 km) S, 6 mi (9.6 km) E of Saltillo, no date; 7 mi (11.2 km) S and 4 mi (6.4 km) E of Bella Unión, no date; 8 mi (12.8 km) N of La Ventura, 22 Jul. and 17 Nov. 1949, W.K. Clark; 12 mi (19.2 km) S and 2 mi (3.2 km) E of Arteaga, no date; 12 mi (19.2 km) W of San Antonio de las Alazanas, no date; Sierra Guadalupe, 11 mi (17.6 km) S and 4 mi (6.4 km) W of General Cepeda, 18 Apr. 1953, G.H. Heinrich (Price & Hellenthal 1975a).

Durango: *Cratogeomys* sp., Hacienda de Atotonilco, no date (Price & Hellenthal 1975a).

Nuevo León: *Cratogeomys goldmani subnubilis*, 1 mi (1.6 km) W of Doctor Arroyo, 17–18 Feb. 1954, R.W. Dickerman; 5 mi (8.0 km) W of Ascensión, 23–24 Feb. 1954, R.W. Dickerman; 7 mi (11.2 km) NW of Providencia, 23 Apr. 1965, P.L. Clifton; Laguna, 25–26 Feb. 1954, R.W. Dickerman (Price & Hellenthal 1975a).

San Luis Potosí: *Cratogeomys goldmani goldmani*, 4.5 mi (7.2 km) SW of Herradura, no date; *Cratogeomys goldmani subnubilis*, 29 mi (46.4 km) W and 14 mi (22.4 km) N of Ciudad del Maíz, no date (Price & Hellenthal 1975a).

Tamaulipas: *Cratogeomys goldmani goldmani*, Nicolas 56 km NW of Tula, no date; *Cratogeomys goldmani subnubilus*, 4 mi (6.4 km) N of Jaumave of Tula, no date; 8 mi (12.8 km) N and 9 mi (14.4 km) SW of Tula, no date; Miquihuana, no date (Price & Hellenthal 1975a).

Zacatecas: *Cratogeomys* sp., Canitas; *Cratogeomys castanops consitus*, 8 mi (12.8 km) S of Majoma, no date; Concepción del Oro, no date; *Cratogeomys goldmani subnubilus*, 3 mi (4.8 km) N of Lulu, 27–28 May 1940, E.V. Miller; 15 mi (24.0 km) S of Concepción del Oro, 24 Jan. 1954, R.W. Dickerman; 22 mi (35.2 km) SW of Concepción del Oro, 5 Jan. 1964, G.W. Jones; *Cratogeomys goldmani goldmani*, Villa de Cos, no date (Price & Hellenthal 1975a).

Type: Holotype female deposited in KSUC.

Notes: Price & Hellenthal (1975a) identified the hosts as “*Pappogeomys castanops subnubilus*”, “*Pappogeomys castanops elibatus*”, “*Pappogeomys castanops goldmani*”, “*Pappogeomys castanops rubellus*”, “*Pappogeomys castanops peridoneus*”, “*Pappogeomys castanops subsimus*”, “*Pappogeomys castanops planifrons*” and “*Pappogeomys castanops surculus*”.

***Geomydoecus (Geomydoecus) tamaulipensis* Price & Hellenthal, 1975**

Geomydoecus tamaulipensis Price & Hellenthal, 1975a: 406, figs 12, 15, 17.

Tamaulipas: *Cratogeomys castanops castanops*, 3 mi (4.8 km) SE of Reynosa, 3 Mar. 1954, R.W. Dickerman (Price & Hellenthal 1975a).

Type: Holotype female deposited in KSUC (58118).

Note: Price and Hellenthal (1975a) identified the host as “*Pappogeomys castanops tamaulipensis*”.

***Geomydoecus (Geomydoecus) telli* Price & Hellenthal, 1988**

Geomydoecus telli Price & Hellenthal, 1988: 214, figs 1–4.

Jalisco: *Cratogeomys fumosus fumosus*, 1 mi NE Tala, 30 Mar. 1949, J.R. Alcorn; 1 mi S El Refugio, no date; 2 1/2 mi W Tala, 15 Mar. 1949; 15 mi E Ameca, 18 Aug. 1969, D.L. Berry; 19 mi S, 9 mi W Guadalajara, 16 Feb. 1949, J.R. Alcorn; 13 mi S, 15 mi W Guadalajara, 6/22 Feb. 1949, J.R. Alcorn (Price & Hellenthal 1989b).

Type: Holotype female deposited in UMSP.

Notes: Price & Hellenthal (1988) identified the hosts as “*Pappogeomys gymnurus tellus*”, “*Pappogeomys tylorhinus atratus*” and “*Pappogeomys tylorhinus zodiuss*”.

***Geomydoecus (Geomydoecus) texanus texanus* Ewing, 1936**

Geomydoecus texanus Ewing, 1936: 241.

Coahuila: *Cratogeomys castanops consitus* (as “*Pappogeomys castanops jucundus*”), no date, questionable host record (Price & Emerson 1971).

Tamaulipas: *Geomys personatus*, no date; *Geomys tropicalis*, no date (Price & Emerson 1971); *Geomys personatus*, 35 mi (56.6 km) SSE of Matamoros, no date; 73 mi (117.7 km) S of Washington Beach, no date (Price & Hellenthal 1975a).

Zacatecas: *Cratogeomys goldmani goldmani* (as “*Pappogeomys castanops rubellus*”), no date, questionable host record (Price & Emerson 1971).

Notes: Ewing (1936) identified the type host as “*Geomys personatus fallax*”.

***Geomydoecus (Geomydoecus) texanus tropicalis* Price & Hellenthal, 1975**

Geomydoecus texanus tropicalis Price & Hellenthal, 1975a: 403.

Tamaulipas: *Geomys tropicalis*, 1 mi (1.6 km) S of Altamira, 4 Jul. 1953, G.H. Heinrich (Price & Hellenthal 1975a).

Types: Holotype male deposited in KSUC (55542).

***Geomydoecus (Geomydoecus) toluca* Price & Emerson, 1971**

Geomydoecus toluca Price & Emerson, 1971: 245, figs 97, 122.

Estado de Mexico: *Thomomys umbrinus* Nevado de Toluca, Raíces, 14 Mar. 1963; Nevado de Toluca, no date (Price & Emerson 1971); Ojo de Agua, NW slope of Nevado de Toluca, no date; Salazar, no date; N slope of Popocatepetl, no date; 5.5 km S, 13 km E of Amecameca, no date; 18 km S, 12 km W of Toluca; 4 mi (6.4 km) S of

Raíces, no date (Price & Hellenthal 1979).

Puebla: *Thomomys umbrinus*, Pico de Orizaba, no date; Boca del Monte, no date (Price & Hellenthal 1979).

Veracruz: *Thomomys umbrinus*, Vicinity of Maltrata, no date (Price & Hellenthal 1979).

Types: Holotype male and allotype female deposited in USNM (B-64564).

Note: Price & Hellenthal (1979) identified the hosts as “*Thomomys umbrinus tolucae*”, “*Thomomys umbrinus peregrinus*”, “*Thomomys umbrinus vulcanius*” and “*Thomomys umbrinus orizabae*”.

***Geomydoecus (Geomydoecus) traubi* Price & Emerson, 1971**

Geomydoecus traubi Price & Emerson, 1971: 257, figs 23, 24, 63, 75, 80, 138.

Distrito Federal: *Cratogeomys merriami*, 4 mi (6.4 km) S Churubusco, no date (Price & Hellenthal 1989a); Gregorio Atapulco, no date (Price & Hellenthal 1989a).

Estado de Mexico: *Cratogeomys merriami*, Río Frío, 23 Nov. 1946; Nevado de Toluca, 10 Mar. 1963; Raíces, Nevado de Toluca, 2 Mar. 1963 (Price & Emerson 1971); Chapingo, no date; 5 km W, 14 km S, 2.5 km W of Río Frío, no date; Lagunas de Zempoala, no date; 5 mi (8.0 km) E Amecameca, no date; 5 mi (8.0 km) S Texcoco, no date (Price & Hellenthal 1989a); 2 km SE Coatepec, 8600 ft, no date; 5 km and 15 km SSW Texcoco, no date (Light & Hafner 2007); *Cratogeomys fumosus taylorhinus*, Toluca, no date; Nevado de Toluca, no date; N slope Nevado de Toluca, no date; 12 mi (19.3 km) NNE Valle de Bravo, no date (Price & Hellenthal 1989a).

Morelos: *Cratogeomys merriami*, La Piedra, Lagunas de Zempoala, 26 Mar. 1963 (Price & Emerson 1971).

Puebla: *Cratogeomys merriami*, Texmelucán, no date (Price & Hellenthal 1989a); 1 km SE San Miguel Xoxtla, 2430 m, no date (Light & Hafner 2007)

Tlaxcala: *Cratogeomys merriami*, 8 km S, 7 km W Calpulalpán, no date (Price & Hellenthal 1989a).

Types: Holotype male and allotype female deposited in KSUC (19327).

Genbank Accession Numbers: DQ200302, DQ200311, DQ200315, DQ200325, DQ200342, DQ200347, DQ200352.

Notes: Price & Emerson (1971) identified the type host as “*Pappogeomys merriami merriami*”. Price & Hellenthal (1989a) identified the hosts as “*Pappogeomys merriami merriami*” and “*Pappogeomys taylorhinus planiceps*”.

***Geomydoecus (Geomydoecus) trichopi* Price & Emerson, 1971**

Geomydoecus trichopi Price & Emerson, 1971: 253, figs 86, 120.

Michoacán: *Zygozomys trichopus trichopus*, Sierra Patamba, 29 Jun. 1954, R.W. Dickerman (Price & Emerson 1971); Sierra Patamba, no date; 5.3 km and 7 km E of Tancitaro, no date; 6 km N of Tancitaro, no date; 2 km W of Tancitaro, no date; NW slopes Cerro Patamban, no date; *Zygozomys trichopus tarascensis*, 10 km E Pátzcuaro, no date (Price & Hellenthal 1989a).

Types: Holotype male and allotype female deposited in KSUC (62520).

***Geomydoecus (Geomydoecus) umbrini* Price & Emerson, 1971**

Geomydoecus umbrini Price & Emerson, 1971: 240, figs 54, 69, 93, 101, 135, 143.

Durango: *Thomomys umbrinus durangi*, no date (Price & Emerson 1971).

Sinaloa: *Thomomys* sp., no date; *Thomomys atrovarius*, Aguacaliente, 1 May 1965; San Lorenzo, 1 May 1965 (Price & Emerson 1971); 2 mi (3.2 km) E Agua Caliente, no date; 3.5 mi (5.6 km) NE San Lorenzo, no date; 7 mi (11.3 km) ENE Presa Sanalona, no date; 18 mi (29.9 km) SE Culiacán, no date; 11 mi (17.7 km) and 12 mi (19.3 km) NE Presa Sanalona, no date (Price & Hellenthal 1981b); *Thomomys umbrinus*, no date; *Thomomys umbrinus eximius*, no date (Price & Emerson 1971); 10 km S, 44 km ENE and 38 km E Sinaloa de Leyva, no date; 18 km NNE and 50 mi (80.5 km) NE of Choix, no date; 12 mi (19.3 km) NE of San Benito, no date (Price & Hellenthal 1981b).

Zacatecas: *Thomomys atrovarius*, no date; *Thomomys umbrinus zacatecae*, no date (Price & Emerson 1971).

Types: Holotype male and allotype female deposited in KSUC (97136).

Note: Price & Emerson (1971) identified the hosts as “*Thomomys umbrinus parviceps*”, “*Thomomys umbrinus atrovarius*” and “*Thomomys umbrinus crassidens*”.

***Geomydoecus (Geomydoecus) ustulati ustulati* Price & Hellenthal, 1975**

Geomydoecus ustulati ustulati Price & Hellenthal, 1975a: 405, fig. 11.

Coahuila: *Cratogeomys castanops castanops*, Don Martín, 16 Aug. 1949, W.K. Clark; 5 mi (8 km) SE of Don Martín, 7 Nov. 1951, J.R. Alcorn; Base of Don Martín Dam, 27 Nov. 1953, R.W. Dickerman; 12 mi (19.2 km) E of Nava, no date; 29 mi (46.4 km) N, 6 mi (9.6 km) E of Sabinas, no date; 4 mi (6.4 km) N of Acatita, no date; *Cratogeomys castanops consitus*, Hermanas, no date (Price & Hellenthal 1975a).

Nuevo León: *Cratogeomys castanops castanops*, 4 mi (6.4 km) N, 1 mi (1.6 km) W of Anahuac (=Rodríguez), 25 Nov. 1953, R.W. Dickerman; 9 mi (14.4 km) N, 2 mi (3.2 km) W of Anahuac (=Rodríguez) 25 Nov. 1953, R.W. Dickerman; 3 mi (4.8 km) N of Lampazos, no date; 1 mi. (1.6 km) N of Vallecillo, no date (Price & Hellenthal 1975a).

Type: Holotype female deposited in KSUC (56611).

Note: Price & Hellenthal (1975a) identified the hosts as “*Pappogeomys castanops ustulatus*”, “*Pappogeomys castanops bullatus*”, “*Pappogeomys castanops excelsus*” and “*Pappogeomys castanops jucundus*”.

***Geomydoecus (Geomydoecus) veracruzensis* Price & Emerson, 1971**

Geomydoecus veracruzensis Price & Emerson, 1971: 255, figs 6, 70.

Puebla: *Cratogeomys fulvescens*, Chalchicomula, no date (Price & Hellenthal 1989a); 1 km SE Ciudad Serdán, 2700 m, no date (Light & Hafner 2007).

Tlaxcala: *Cratogeomys fulvescens*, Huamantla, 2380 m, no date (Light & Hafner 2007).

Veracruz: *Cratogeomys fulvescens*, Limón, 19 Nov. 1946 (Price & Emerson 1971); 2 km E and 2 km N Perote, Guadalupe Victoria, no date; 3 km W and 2 km W and at Limón, no date (Price & Hellenthal 1989a); 2 km NE Perote, 7900 ft, no date (Light & Hafner 2007).

Types: Holotype female and allotype male deposited in KSUC (19351).

GenBank Accession Numbers: DQ200320, DQ200322, DQ200333, DQ200345, DQ200351.

Note: Price & Emerson (1971) identified the type host as “*Pappogeomys merriami fulvescens*”.

***Geomydoecus (Geomydoecus) warmanae* Price & Hellenthal, 1981**

Geomydoecus warmanae Price & Hellenthal, 1981a: 19, figs 35, 36.

Coahuila: *Thomomys umbrinus goldmani*, 3 mi (4.8 km) SE of Torreón, no date (Price & Hellenthal 1981a).

Chihuahua: *Thomomys umbrinus madrensis*, 3.5 mi (5.6 km) NE of Colonia García, 11 Sep. 1971, J.L. Patton; 1 mi (1.6 km) W, and 2.4 mi (3.9 km) NE of Colonia García, no date; Water Canyon, 3 mi (4.8 km) S Colonia García, no date; 3 mi (4.8 km) S and 10 mi (16.1 km) E Pacheco, no date; 3 mi (4.8 km) SE Pacheco, no date; 7 mi (11.3 km) SW Pacheco, no date; Cañón del Oro, 12 mi (19.3 km) E Pacheco, no date; Río Gavilán, 9 mi (14.5 km) SW Pacheco, no date; Valle Moctezuma, 11.6 mi (18.7 km) SE of Colonia García, no date; *Thomomys umbrinus camargensis*, 1 mi (1.6 km) NW Ciudad Camargo, no date; 14 mi (22.5 km) SW Ciudad Camargo, no date; *Thomomys umbrinus juntae*, 1 mi (1.6 km) S Delicias, no date; 2 mi (3.2 km) SW Babicora, no date; 5 mi (8.0 km) N, 5 mi (8.0 km) E Meoqui, no date; 5 mi (8.0 km) N Cerro La Campana, no date; 5 mi (8.0 km) N Chihuahua, no date; 8.4 mi (13.5 km) W Cuauhtemoc, no date; Cañón del Alamo, Sierra del Nido, no date; Cañón del Potrero, 7 mi (11.3 km) W El Sauz, no date; Cañón Santa Clara, Sierra del Nido, no date; *Thomomys umbrinus nelsoni*, 10 mi (16.1 km) SE Hidalgo del Parral, no date; Jiménez; *Thomomys sheldoni chihuahuae*, 9.6 mi (15.4 km) W Tomochic, no date (Price & Hellenthal 1981a).

Durango: *Thomomys umbrinus goldmani*, 4 mi (6.4 km) WSW Lerdo, no date; *Thomomys umbrinus nelsoni*, 14.7 mi (23.7 km) N Las Nieves, no date; Villa Ocampo, no date (Price & Hellenthal 1981a).

San Luis Potosí: *Thomomys umbrinus arriagensis*, 1 km S Arriaga, no date; 11 km N and 12 km E Arriaga, no date; 4 mi (6.4 km) E Arriaga, no date; *Thomomys umbrinus potosinus*, 24 mi (38.6 km) NE Ciudad San Luis Potosí, no date; La Tinaja, no date; Ventura, no date (Price & Hellenthal 1981a).

Sonora: *Thomomys umbrinus sonoriensis*, 3 km NE Moctezuma, no date; 1 mi (1.6 km) S Moctezuma, no date; 10 mi (16.1 km) NE Chinapa, no date; *Thomomys umbrinus*, 1 mi (1.6 km) W Yecora, no date (Price & Hellenthal 1981a).

Zacatecas: *Thomomys umbrinus*, 20 km S, 30 km E Guadalupe, no date; *Thomomys umbrinus zacatecae*, 1 mi (3.2 km) ESE Trancoso, no date (Price & Hellenthal 1981a).

Types: Holotype male deposited in UMSP.

***Geomydoecus (Geomydoecus) welleri multilineatus* Price & Hellenthal, 1981**

Geomydoecus welleri multilineatus Price & Hellenthal, 1981b: 45, fig. 18.

Aguascalientes: *Thomomys umbrinus enixus*, 3 mi (4.8 km) N Cerro del Jaguey, no date; *Thomomys umbrinus zacatecae*, 12 mi (19.3 km) N Rincón de Romos, no date (Price & Hellenthal 1981b).

Guanajuato: *Thomomys umbrinus supernus*, Santa Rosa, no date (Price & Hellenthal 1981b)

Jalisco: *Thomomys umbrinus enixus*, 1 mi (1.6 km) NE Villa Hidalgo, no date; *Thomomys umbrinus newmani*, 2 mi (3.2 km) SW Matanzas, no date; 4.5 mi (7.2 km) NE Comanja de Corona, no date; 6 mi (9.7 km) SE La Punta, no date; 10 mi (16.1 km) NW Matanzas, no date (Price & Hellenthal 1981b).

San Luis Potosí: *Thomomys umbrinus crassidens*, Álvarez, no date; *Thomomys umbrinus newmani*, 7 mi (11.3 km) NW Palma Pegada, no date (Price & Hellenthal 1981b).

Zacatecas: *Thomomys umbrinus zacatecae*, 3 km N Ojocaliente, 23 Jul. 1977, M.S. Hafner; 5 mi (8.0 km) NW Zacatecas, no date; 8 mi (12.9 km) SE Zacatecas, no date; 9 mi (14.5 km) W Zacatecas, no date; Berriozabal, no date; *Thomomys umbrinus crassidens*, 10 km S, 2 km W Sombrerete, no date; 3 mi (4.8 km) NW Monte Escobedo, no date; 3 mi (4.8 km) SW Sombrerete, no date; Valparaíso Mts, no date; *Thomomys umbrinus enixus*, 11 mi (17.7 km) NW Jalpa, no date; El Plateado, no date.

Types: Holotype female deposited in UMSP.

***Geomydoecus (Geomydoecus) welleri welleri* Price & Hellenthal 1981**

Geomydoecus welleri welleri Price & Hellenthal, 1981b: 44, figs 9, 12, 16, 19.

Coahuila: *Thomomys umbrinus goldmani*, 3 mi (4.8 km) NE Sierra Mojada, no date (Price & Hellenthal 1981b).

Chihuahua: *Thomomys sheldoni chihuahuae*, 10 km N Guachochic, no date; 1.8 mi (2.9 km) E El Vergel, no date; 2 mi (3.2 km) W Samachic, no date; 6 mi (9.7 km) E Creel, no date; 7 mi (11.3 km) SW El Vergel, no date; 10 mi (16.1 km) SW Agostadero, no date; 15 mi (24.1 km) S Creel, no date; 25 mi (40.2 km) W Tomochic, Yaguirachic, no date; 65 mi (104.6 km) E Batopilas, no date; 130 mi (209.2 km) W Chihuahua, no date; *Thomomys umbrinus goldmani*, 19 mi (30.6 km) S, 4 mi (6.4 km) E Jaco, no date; *Thomomys umbrinus juntae*, 1 mi (1.6 km) S, 0.5 mi (0.8 km) E Santa Clara, no date; 2 mi (3.2 km) W Minaca, Rosario, no date; 4 mi (6.4 km) S Rosario, no date; 1 mi (1.6 km) W Santo Tomás, no date; 5 mi (8.0 km) N Chihuahua, no date; 7 mi (11.3 km) WSW Cuahutémoc, Cañón del Álamo, no date; 8.4 mi (13.5 km) W Cuahutémoc, Cañón del Álamo, no date; 11 mi (17.7 km) E La Junta Rosario, no date; Anderson Arroyo Mesteno, no date; *Thomomys umbrinus madrensis*, 1.3 mi (2.1 km) E Chuhuichpa, no date; 1.5 mi (2.4 km) NE Madera, no date; 3 mi (4.8 km) S and 5 mi (8.0 km) S Colonia García, no date; 9 mi (14.5 km) SE and 11.6 mi (18.7 km) SE Colonia García, no date (Price & Hellenthal 1981b).

Distrito Federal: *Thomomys umbrinus*, 2 mi (3.2 km) SSW Parres, no date (Price & Hellenthal 1981b).

Durango: *Thomomys sheldoni chihuahuae*, 1.3 mi (2.1 km) NE Mil Dios, 31 May 1974, J.L. Patton; 10 km N Aguaje del Alto, no date; 83 km WSW Durango, no date; 1 mi (1.6 km) E La Ciudad, no date; 3 mi (4.8 km) E Las Adjuntas, no date; 3 mi (4.8 km) NW El Salto, no date; 4 mi (6.4 km) SW Coyotes, no date; 6 mi (9.7 km) SW El Salto, no date; 7.7 mi (12.4 km) W La Ciudad, no date; 15 mi (24.1 km) W El Salto, no date; *Thomomys umbrinus goldmani*, 1 mi (1.6 km) WSW Mapimí, no date; *Thomomys umbrinus durangi*, 1.5 mi (2.4 km) S Morcillo, no date; 8 mi (12.9 km) NE Durango, no date; 8 mi (12.9 km) NW Durango, no date; 22 mi (35.4 km) WSW Durango, no date; Peña de Aguila, no date (Price & Hellenthal 1981b).

Estado de Mexico: *Thomomys umbrinus*, 10 km S, 16 km W Toluca de Lerdo, no date; 18 km S, 12 km W Toluca de Lerdo, no date; 1.5 mi (2.4 km) S Valle de Bravo, no date; 6 mi (9.7 km) E Valle de Bravo, no date; 10 mi (16.1 km) N Valle de Bravo, no date; N slope Nevado de Toluca, no date (Price & Hellenthal 1981b).

Hidalgo: *Thomomys umbrinus*, 5 mi (8.0 km) E Tulancingo, no date (Price & Hellenthal 1981b).

Michoacán: *Thomomys umbrinus pullus*, 6.5 km S and 3 mi (4.8 km) S Pátzcuaro), no date; 4 mi (6.4 km) S and 5 mi (8.0 km) S Pátzcuaro, no date (Price & Hellenthal 1981b).

Puebla: *Thomomys umbrinus umbrinus*, 3.5 km S, 3 km E Esperanza, no date; Boca del Monte, no date; *Thomomys umbrinus*, San Martín, no date (Price & Hellenthal 1981b).

Tlaxcala: *Thomomys umbrinus*, 8 km S, 7 km W Calpulalpan, no date; 9 km N, 7 km E Apizaco, no date; 9 km N, 8 km E Apizaco, no date; 10 km N, 9 km E Apizaco, no date; 19 km W Tlaxcala, no date (Price & Hellenthal 1981b).

Veracruz: *Thomomys umbrinus*, 10 mi (16.1 km) W Zacualpán, no date (Price & Hellenthal 1981b).

Types: Holotype female deposited in UMSP.

Notes: Some hosts were identified by Price & Hellenthal (1981b) as “*Thomomys umbrinus peregrinus*”, “*Thomomys umbrinus tolucae*”, “*Thomomys umbrinus albigularis*” and “*Thomomys umbrinus martinensis*”.

***Geomydoecus (Geomydoecus) wernecki planiceps* Price & Hellenthal, 1989**

Geomydoecus wernecki planiceps Price & Hellenthal, 1989a: 399.

Edomex: *Cratogeomys fumosus tylorhinus*, El Río (= San Bernabé), 14 mi (22.5 km) NW Toluca, 2 Feb. 1955, R.W. Dickerman (Price & Hellenthal 1989a).

Types: Holotype male deposited in KSUC (66161).

Note: Price & Hellenthal identified the type host (1989a) as “*Pappogeomys tylorhinus planiceps*”.

***Geomydoecus (Geomydoecus) wernecki wernecki* Price & Emerson, 1971**

Geomydoecus wernecki Price & Emerson, 1971: 253, figs 78, 109.

Estado de Mexico: *Cratogeomys fumosus tylorhinus*, San Agustín Acolman, no date (Price & Hellenthal 1989a).

Guanajuato: *Cratogeomys fumosus angustirostris*, 2 mi (3.2 km) and 5 mi (8.0 km) E Celaya, no date (Price & Hellenthal 1989a).

Hidalgo: *Cratogeomys fumosus tylorhinus*, Marques, no date (Price & Hellenthal 1989a).

Jalisco: *Cratogeomys fumosus tylorhinus*, Lagos de Moreno, 15 Oct. 1965 (Price & Emerson 1971); Lagos de Moreno, no date (Price & Hellenthal 1989a).

Michoacán: *Cratogeomys fumosus imparilis*, 6.5 km S Pátzcuaro, no date; 2 mi (3.2 km) E San Gregorio, no date; 2 mi (3.2 km) N Pátzcuaro, no date; 3 mi (4.8 km) S Pátzcuaro, no date; 5 mi (8.0 km) SE Opopeo, no date; 5 mi (8.0 km) S Pátzcuaro, no date; 8 mi (12.9 km) E Opopeo, no date; 16 mi (25.8 km) W Ciudad Hidalgo, no date (Price & Hellenthal 1989a).

Querétaro: *Cratogeomys fumosus tylorhinus*, 8 mi (12.9 km) NW Pinal de Amoles, no date (Price & Hellenthal 1989a).

Types: Holotype male and allotype female deposited in KSUC (103348).

Notes: Price & Emerson (1971) identified the type host as “*Pappogeomys zinseri*”. Price & Hellenthal (1989a) identified some hosts as “*Pappogeomys gymnurus imparilis*”, “*Pappogeomys neglectus*”, “*Pappogeomys tylorhinus brevirostris*”, “*Pappogeomys tylorhinus tylorhinus*” and “*Pappogeomys zinseri*”.

***Geomydoecus (Geomydoecus) yucatanensis* Price & Emerson, 1971**

Geomydoecus yucatanensis Price & Emerson, 1971: 249, figs 35, 46, 60, 125–127.

Campeche: *Orthogeomys hispidus yucatanensis*, Escárcega, 26 Dec. 1962; Champotón, no date (Price & Emerson 1971); Concepción, no date; 73 km and 103 km SE of Escárcega, no date; 7 km N, 51 km E of Escárcega, no date; Dzibalchen, no date (Price & Hellenthal 1976).

Quintana Roo: *Orthogeomys hispidus yucatanensis*, 6.5 km NE of Playa del Carmen (Price & Hellenthal 1976).

Yucatán: *Orthogeomys hispidus yucatanensis*, Tizimín, 29 Apr. 1963 (Price & Emerson 1971); 2 km E of Chichén Itzá (Price & Hellenthal 1976).

Types: Holotype male and allotype female deposited in KSUC.

***Geomydoecus* sp.**

No State: *Thomomys umbrinus*, Valle de Mexico (Werneck 1945).

Genus *Neotrichodectes* Ewing, 1929

***Neotrichodectes (Neotrichodectes) minutus* (Paine, 1912)**

Trichodectes minutus Paine, 1912: pl. 20, fig. 4.

No State: *Mustela* sp., no data (Werneck 1948).

***Neotrichodectes (Nasuicola) pallidus* (Piaget, 1880)**

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

Morelos: *Nasua narica narica*, Cuernavaca, no date (Werneck 1948).

Tabasco: *Nasua narica*, Parque-Museo La Venta, Villahermosa, no date (Isaak-Delgado 2014).

Genus *Stachiella* Kéler, 1938c

Stachiella octomaculatus (Paine, 1912)

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

Tabasco: *Nasua narica narica*, Parque-Museo La Venta, Villahermosa, no date (Isaak-Delgado 2014); *Procyon lotor*, Parque-Museo La Venta, Villahermosa, no date (Isaak-Delgado 2014).

Stachiella potus (Werneck, 1934)

Trichodectes potus Werneck, 1934: 171, figs 7–10.

Campeche: *Potos flavus*, Tuxpan, no date (Werneck 1948).

Genus *Thomomydoecus* Price & Emerson, 1972

Thomomydoecus (Thomomydoecus) asymmetricus (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) asymmetricus Price & Hellenthal, 1980b: 573, fig. 10.

Chihuahua: *Thomomys sheldoni chihuahuae*, 1.8 mi (2.9 km) E El Vergel, 17 Jul, 1976, J.L. Patton; 10 km N Guachochic, no date; 10 mi (16.1 km) SW Agostadero, no date; Lagunita, 7 mi (11.3 km) SW El Vergel, no date; Sierra Madre, 65 km (104.6 km) E Batopiles, no date (Price & Hellenthal 1980b).

Type: Holotype male deposited in UMSP.

Note: Price & Hellenthal (1980b) identified the type host as “*Thomomys umbrinus chihuahuae*”.

Thomomydoecus (Thomomydoecus) birneyi (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) birneyi Price & Hellenthal, 1980a: 302, figs 7, 10, 12.

Sonora: *Thomomys umbrinus sonoriensis*, 1 mi (1.8 km) N of Sahuaripa, 19 Jul. 1975, J.L. Patton; 3 km NE Moctezuma, no date; 1 mi (1.6 km) S Moctezuma, no date; Mina San Eufraci, 10 mi (16.1 km) NE Chinapa, no date; *Thomomys umbrinus* subspecies, 1 mi (1.6 km) W Yecora, no date; *Thomomys bottae divergens*, 1 mi (1.6 km) N Huachinera, no date (Price & Hellenthal 1980a);

Types: Holotype male deposited in UMSP.

Thomomydoecus (Thomomydoecus) dickermani (Price & Emerson, 1972)

Geomydoecus (Thomomydoecus) dickermani Price & Emerson, 1972: 467, figs 9–11.

Estado de Mexico: *Thomomys umbrinus*, Nevado de Toluca, 1 Aug. 1954, R.W. Dickerman; Valle de Bravo, no date (Price & Emerson 1972); 10 km S, 16 km W Toluca, no date; 18 km S, 12 km W Toluca, no date; 1 mi (1.6 km) W Salazar, no date; 1.5 mi (2.4 km) S Valle de Bravo, no date; 10 mi (16.1 km) N, 6 mi (9.7 km) E Valle de Bravo, no date; N slope Nevado de Toluca, no date; Ojo de Agua, no date (Price & Hellenthal 1980a).

Types: Holotype male and allotype female deposited in KSUC (62458).

Notes: Price & Emerson (1972) identified the hosts as “*Thomomys umbrinus tolucae*” and “*Thomomys umbrinus peregrinus*”.

Thomomydoecus (Thomomydoecus) genowaysi (Price & Emerson, 1972)

Geomydoecus (Thomomydoecus) genowaysi Price & Emerson, 1972: 464, figs 7, 8.

Coahuila: *Thomomys umbrinus goldmani*, 3 mi (4.8 km) NE Sierra Mojada, no date (Price & Hellenthal 1980b).

Chihuahua: *Thomomys umbrinus madreensis*, 2 Nov. 1954, J.R. Alcorn (Price & Emerson 1972); 1 mi (1.6 km) W Colonia García, no date; 1.3 mi (2.1 km) E Chuhuichupa, no date; 1.5 mi (2.4 km) NE Madera, no date; 2.4 mi (3.9 km) NE Colonia García, no date; 3 mi (4.8 km) SW, Pacheco, no date; 3 mi (4.8 km) S, 10 mi (16.1 km) E Pacheco, no date; 3.5 mi (5.6 km) NE Colonia García, no date; 7 mi (11.3 km) SW Pacheco, no date; 9 mi (14.5 km) SE Colonia García, no date; Cañon del Oro, 12 mi (19.3 km) E Pacheco, no date; Meadow Valley, 5 mi (8.0 km) S Colonia García, no date; Río Gaviola, 9 mi (14.5 km) SW Pacheco, no date; Valle Moctezuma, 11.6 mi (18.7 km) SE Colonia García, no date; Water Canyon, 3 mi (4.8 km) S Colonia García; *Thomomys sheldoni chihuahuae*, 2 mi (3.2 km) W Samachic, no date; 9.6 mi (15.4 km) W Tomochic, no date; Rancho El Pajarito, 23.0 mi (40.2 km) W Tomochic, no date; Yaguirachic, 130 km (209.2 km) W Chihuahua; *Thomomys umbrinus goldmani*, Sierra

Almagre, 19 mi (30.6 km) S, 4 mi (6.4 km) E Jaco, no date; *Thomomys umbrinus juntae*, 0.5 mi (0.8 km) E Santa Clara, no date; 1 mi (1.6 km) S Santa Clara, no date; 2 mi (3.2 km) SW Babicoa, no date; 2 mi (3.2 km) W Minaca, no date; 4 mi (6.4 km) S, 1 mi (1.6 km) E Santo Tomas, no date; 5 mi (8.0 km) N Cerro la Campana, no date; 5 mi (8.0 km) N Chihuahua, no date; 7 mi (11.3 km) WSW Cuauhtemoc, no date; 8.4 mi (13.5 km) W Cuauhtemoc, no date; 11 mi (17.7 km) E La Junta, no date; Arroyo Mesteno, Sierra del Nido, no date; Cañón del Potrero, 7 mi (11.3 km) W El Sauz, no date (Price & Hellenthal 1980b); *Thomomys umbrinus nelsoni*, no date (Price & Emerson 1972); 10 mi (16.1 km) SE Hd del Parral Jiménez, no date (Price & Hellenthal 1980b).

Durango: *Thomomys umbrinus nelsoni*, 14.7 mi (23.7 km) N Las Nieves, no date; Villa Ocampo, no date (Price & Hellenthal 1980b).

Types: Holotype male and allotype female deposited in KSUC (63975).

Thomomydoecus (Thomomydoecus) greeri (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) greeri Price & Hellenthal, 1980b: 575, figs 9, 17.

Chihuahua: *Thomomys umbrinus juntae*, 5 mi (8.0 km) N, 5 mi (8.0 km) E Meoqui, 23 Jun. 1953, J.K. Greer; 1 mi (1.6 km) S Delicias, no date (Price & Hellenthal 1980b).

Type: Holotype male deposited in KSUC (54534).

Thomomydoecus (Thomomydoecus) jamesbeeri (Price & Emerson, 1972)

Geomydoecus (Thomomydoecus) jamesbeeri Price & Emerson, 1972: 464, figs 1–6.

Guanajuato: *Thomomys umbrinus supernus*, Santa Rosa, 11–12 Nov. 1896, E.W. Nelson and E.A. Goldman (Price & Emerson 1972).

Types: Holotype male and allotype female deposited in USNM (81684).

Thomomydoecus (Thomomydoecus) johnhafneri (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) johnhafneri Price & Hellenthal, 1980a: 309, figs 17, 21.

Estado de Mexico: *Thomomys umbrinus*, 5.5 km S, 13 km E Amecameca, 5 Apr. 1977, J.C. Hafner; Timberline, N slope Popocatepetl, no date (Price & Hellenthal 1980a).

Type: Holotype male deposited in UMSP.

Note: Price & Hellenthal (1980a) identified the type host as “*Thomomys umbrinus vulcanius*”.

Thomomydoecus (Thomomydoecus) markhafneri (Price & Hellenthal, 1980a)

Geomydoecus (Thomomydoecus) markhafneri Price & Hellenthal, 1980a: 308, fig. 14.

Puebla: *Thomomys umbrinus umbrinus*, 3.5 km S, 3 km E Esperanza, Boca del Monte, 13 Aug. 1977, M.S. Hafner; Boca del Monte, no date (Price & Hellenthal 1980a).

Types: Holotype male deposited in UMSP.

Thomomydoecus (Thomomydoecus) minor (Werneck, 1950)

Geomydoecus chapini minor Werneck, 1950: 16, figs 14–16.

Coahuila: *Thomomys bottae angustidens*, 5 mi (8.0 km) S, 3 mi (4.8 km) W Acebuches, no date; 6 mi 9.7 km N, 6 mi (9.7 km) W Acebuches, no date; *Thomomys bottae retractus*, 1 mi (1.6 km) N Las Margaritas, no date; *Thomomys bottae sturgisi*, 38 mi (61.1 km) S, 23 mi (37.0 km) E of Boquillas del Carmen, no date; Piedra Blanca, Sierra del Carmen, no date (Price & Hellenthal 1980a).

Chihuahua: *Thomomys bottae toltecus*, Casas Grandes Viejo, no date (Price & Hellenthal 1980a).

Sonora: *Thomomys bottae basilicae*, 2 mi (3.2 km) W of Magdalena, no date; *Thomomys bottae divergens*, 13.15 mi (2.3 km) S of Esqueda, no date; *Thomomys bottae modicus*, 40 km S of Nogales, no date; 2 mi (3.2 km) S La Casita, no date; Santa Cruz, no date (Price & Hellenthal 1980a).

Thomomydoecus (Thomomydoecus) necopei (Price & Emerson, 1971)

Geomydoecus necopei Price & Emerson, 1971: 248, figs 5, 8, 39, 48, 56, 76, 131.

Estado de Mexico: *Thomomys* sp., Nevado de Toluca, no date; *Thomomys umbrinus* Nevado de Toluca, 5 Mar. 1963 (Price & Emerson 1971); Nevado de Toluca, no date; 18 km S, 12 km W Toluca de Lerdo, no date; NW slope Nevado de Toluca, Ojo de Agua, no date (Price & Hellenthal 1980b).

Types: Holotype male and allotype female deposited in USNM (B-64285).

Notes: Price & Emerson (1971) identified the type host as “*Thomomys umbrinus tolucae*”.

Thomomydoecus (Thomomydoecus) orizabae (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) orizabae Price & Hellenthal, 1980a: 308, figs 16, 18, 20.

Hidalgo: *Thomomys umbrinus*, 5 mi (8.0 km) E Tulancingo, no date (Price & Hellenthal 1980a).

Tlaxcala: *Thomomys umbrinus*, 8 km S, 7 km W Calpulalpán, no date; 9 km N, 7 km E Apizaco, no date (Price & Hellenthal 1980a).

Veracruz: *Thomomys umbrinus*, S slope Mount Orizaba, vicinity of Maltrata, 12 Jul. 1965, C.E. Wemmer; Pico de Orizaba, no date (Price & Hellenthal 1980a).

Types: Holotype female deposited in the CASC.

Notes: Price & Hellenthal (1980a) identified the hosts as ‘*Thomomys umbrinus orizabae*’ and “*Thomomys umbrinus albigularis*”.

Thomomydoecus (Thomomydoecus) peregrini (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) peregrini Price & Hellenthal, 1980b: 576.

Distrito Federal: *Thomomys umbrinus*, 2 mi (3.2 km) SSW Parres, 1 May 1950, J.A. Alcorn (Price & Hellenthal 1980b).

Type: Holotype female deposited in KSUC (38368).

Note: Price & Hellenthal (1980b) identified the type host as “*Thomomys umbrinus peregrinus*”.

Thomomydoecus (Thomomydoecus) potteri (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) potteri Price & Hellenthal, 1980b: 577, figs 12, 15, 16.

Zacatecas: *Thomomys umbrinus crassidens*, Valparaíso Mts, 2 Dec. 1897, Nelson and Goldman (Price & Hellenthal 1980b).

Types: Holotype male deposited in USNM (91994).

Thomomydoecus (Thomomydoecus) timmi (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) timmi Price & Hellenthal, 1980a: 305, figs 8, 11.

Baja California: *Thomomys bottae nigricans*, Agua Hechicera, no date; *Thomomys bottae jojobae*, Sangre de Cristo, no date; *Thomomys bottae juarezensis*, El Rayo, no date; Laguna Hanson, no date; *Thomomys bottae martirensis*, Concepción, no date; La Grulla, no date; Vallecitos, no date (Price & Hellenthal 1980a).

Thomomydoecus (Thomomydoecus) williamsi (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) williamsi Price & Hellenthal, 1980a: 308, figs 15, 22.

Tlaxcala: *Thomomys umbrinus*, 9 km N, 8 km E of Apizaco, 23 Mar. 1978, S.L. Williams; 9 km N, 8 km E Apizaco, 19 km W Tlaxcala, no date; 9 km N, 7 km E Apizaco, 19 km W Tlaxcala, no date; 10 km N, 9 km E Apizaco, 19 km W Tlaxcala, no date (Price & Hellenthal 1980a).

Type: Holotype male deposited in USNM.

Thomomydoecus (Thomomydoecus) zacatecae (Price & Hellenthal, 1980)

Geomydoecus (Thomomydoecus) zacatecae Price & Hellenthal, 1980a: 304.

Aguascalientes: *Thomomys umbrinus enixus*, 3 mi (4.8 km) N Cerro del Jaguey, no date; *Thomomys umbrinus zacatecae*, 12 mi (19.3 km) N Rincón de Romos, no date; (Price & Hellenthal 1980a).

Coahuila: *Thomomys umbrinus goldmani*, 3 mi (4.8 km) SE Torreón, no date (Price & Hellenthal 1980a).

Durango: *Thomomys umbrinus arriagensis*, 3 mi (4.8 km) NW El Salto, no date; *T. umbrinus goldmani*, 4 mi (6.4 km) WSW Lerdo, no date (Price & Hellenthal 1980a).

Jalisco: *Thomomys umbrinus newmani*, 2 mi (3.2 km) SW Matanzas, no date; 4.5 mi (7.2 km) NE Comanja de Corona, no date; 10 mi (16.1 km) NW Matanzas, no date; 4.5 mi (7.2 km) NE Comanja de Corona, no date (Price & Hellenthal 1980a).

San Luis Potosí: *Thomomys umbrinus arriagensis*, 1 km S Arriaga, no date; 11 km N, 12 km E Arriaga, no date; 4 mi (6.4 km) E Arriaga, no date; *Thomomys umbrinus atrodorsalis*, Alvarez, no date; *Thomomys sheldoni*

chihuahuae, 83 km WSW Durango, no date; 1 mi (1.6 km) E La Ciudad, no date; 1.3 mi (2.1 km) NE Mil Dios, no date; 3 mi (4.8 km) E LAs Adjuntas La Ciudad, no date; 1.3 mi (2.1 km) NE Mil Dios, no date; 6 mi (9.7 km) SW El Salto, no date; 7.7 mi (12.4 km) W La Ciudad, no date; 1.3 mi (2.1 km) NE Mil Dios, no date; 15 mi (24.1 km) W El Salto, no date; *Thomomys umbrinus durangi*, 22 mi (35.4 km) WSW Durango, no date; 1.5 mi (2.4 km) S Morcillo, no date; *Thomomys umbrinus newmani*, Palma Pegada, no date; *Thomomys umbrinus potosinus*, La Tinaja, no date; Ventura, no date (Price & Hellenthal 1980a).

Michoacán: *Thomomys umbrinus pullus*, 6.5 km S Patzcuaro, no date (Price & Hellenthal 1980a).

Zacatecas: *Thomomys umbrinus zacatecae*, 3 km N Ojocaliente, 23 Jul. 1977, J.C. Hafner; 2 mi (3.2 km) ESE Trancoso, no date; 5 mi (8.0 km) NW Zacatecas, no date; 8 mi (12.9 km) SE Zacatecas, no date; 9 mi (14.5 km) W Zacatecas, no date; Berriozabal, no date; *Thomomys umbrinus crassidens*, 10 km S, 1 km and 2 km W Sombrerete, no date; 3 mi (4.8 km) NW Monte Escobedo, no date; 3 mi (4.8 km) SW Sombrerete, no date; *Thomomys umbrinus enixus*, 11 mi (17.7 km) NW Jalpa, no date; El Plateado (Price & Hellenthal 1980a).

Types: Holotype male deposited in UMSP.

Genus *Trichodectes* Nitzsch, 1818

Trichodectes canis (De Geer, 1778)

Ricinus canis De Geer, 1778: 81, pl. 4, fig. 16.

Nuevo León: no host, no date (Quiroz- Martínez & Cantu 1995).

Tabasco: *Canis lupus familiaris*, Cárdenas, Centla, Villahermosa, May–June 2015 (Torres-Chable *et al.* 2017).

Genus *Tricholipeurus* Bedford, 1929

Tricholipeurus lipeuroides (Méglin, 1884)

Trichodectes lipeuroides Méglin, 1884: 494.

No State: *Odocoileus virginianus mexicanus*, no data (Méglin 1884); no data (Mjöberg 1910); no data (Stobbe 1913).

Types: Holotype male deposited in USNM (80195350).

Notes: Specimens of *T. lipeuroides* were described as “*Eutrichophilus mexicanus*” by Mjöberg (1910) and renamed as “*Trichodectes (Eutrichophilus) mazama*” by Stobbe (1913). The host was identified as “*Cervus mexicana*”.

Host-Louse list

Note: Host-lice associations resulting from either cross-contaminations of lice between hosts or misidentifications of lice have been omitted.

Class Aves

Order Accipitriformes

Family Accipitridae

Busarellus nigricollis nigricollis (Latham)

Craspedorrhynchus tubulus

Buteo jamaicensis (Gmelin)

Craspedorrhynchus sp.

Degeeriella fulva

Buteo plagiatus (Schlegel)
Craspedorrhynchus sp.

Buteo swainsoni Bonaparte
Craspedorrhynchus sp.

Haliaeetus leucocephalus (Linnaeus)
Craspedorrhynchus platystomus

Parabuteo unicinctus Temminck
Degeeriella fulva

Geranospiza caerulescens nigra (Du Bus)
Craspedorrhynchus genitalis

Rupornis magnirostris griseocauda Ridgway
Craspedorrhynchus brevicapitis

Family Cathartidae

Coragyps atratus (Bechstein)
Colpocephalum foetens
Sarcoramphus papa (Linnaeus)
Colpocephalum megalops

Order Anseriformes

Family Anatidae

Anas crecca Linnaeus
Anaticola sp.
Anatoecus sp.
Trinoton sp.

Anas diazi Ridgway
Anaticola sp.

Aythya affinis (Eyton)
Anaticola mergiserrati
Anaticola sp.
Anatoecus sp.

Dendrocygna autumnalis autumnalis (Linnaeus)
Anatoecus dentatus
Acidoproctus maximus

Mareca strepera (Linnaeus)
Anaticola sp.
Anatoecus sp.

Spatula clypeata Linnaeus
Anaticola sp.
Anatoecus sp.
Trinoton sp.

Spatula discors Linnaeus
Anaticola sp.
Trinoton querquedulae

Order Apodiformes

Family Apodidae

Chaetura pelagica (Linnaeus)
Dennyus dubius

Family Trochilidae

Hylocharis leucotis (Vieillot)
Trochiloecetes sp.

Phaethornis superciliosus
Trochiliphagus mexicanus

Selasphorus rufus (Gmelin)
Trochiloecetes ochoterenai

Tilmatura dupontii Lesson
Trochiloecetes doratophorus

Order Caprimulgiformes

Family Nyctibiidae

Nyctibius jamaicensis (Gmelin)
Nyctibicola longirostris

Order Ciconiiformes

Family Ardeidae

Ardea alba Linnaeus
Ciconiphilus decimfasciatus

Ardea alba egretta Gmelin
Ciconiphilus decimfasciatus

Cochlearius cochlearius Linnaeus
Ardeiphagus cochlearius

Egretta thula (Molina)
Comatomenopon thulae

Nyctanassa violacea (Linnaeus)
Ardeicola nyctanassa

Family Ciconiidae

Mycteria americana Linnaeus
Ardeicola loculator
Colpocephalum scalariforme

Family Threskiornithidae

Eudocimus albus (Linnaeus)
Colpocephalum fusconigrum
Ibidoecus bimaculatus

Platalea ajaja (Linnaeus)
Colpocephalum ajajae
Ibidoecus iberoamericanus

Plegadis chihi (Vieillot)
Plegadiphilus plegadis

Order Columbiformes

Family Columbidae

Claravis pretiosa (Ferrari-Pérez)
Columbicola passerinae
Physconelloides eurysema

Columba livia Gmelin
Bonomiella columbae
Columbicola columbae
Hohorstiella lata

Columbina passerina (Linnaeus)
Columbicola passerinae
Physconelloides eurysema

Columbina passerina socorroensis (Ridgway)
Columbicola passerinae

Columbina talpacoti (Temminck)
Columbicola passerinae
Physconelloides eurysema

Geotrygon montana (Linnaeus)

Columbicola macrourae

Physconelloides cubanus

Leptotila jamaicensis (Linnaeus)

Columbicola gracilicapitis

Physconelloides ceratoceps

Leptotila plumbeiceps Salvin

Columbicola gracilicapitis

Columbicola macrourae

Physconelloides ceratoceps

Leptotila verreauxi Bonaparte

Columbicola gracilicapitis

Columbicola macrourae

Hohorstiella paladinella

Leptotila verreauxi fulviventris Lawrence

Columbicola gracilicapitis

Columbicola macrourae

Physconelloides ceratoceps

Patagioenas fasciata (Say)

Columbicola extinctus

Patagioenas flavirostris flavirostris (Wagler)

Columbicola sp.

Patagioenas speciosa (Gmelin)

Columbicola adamsi

Physconelloides spenceri

Scardafella inca (Lesson)

Physconelloides eurysema

Zenaida asiatica (Linnaeus)

Hohorstiella paladinella

Physconelloides wisemani

Zenaida aurita salvadorii Ridgway

Columbicola macrourae

Zenaida macroura

Columbicola baculoides

Columbicola macrourae

Physconelloides zenaidurae

Order Coraciiformes

Family Momotidae

Eumomota superciliosa bipartita Ridgway
Philopterus insulicola

Eumomota superciliosa superciliosa (Sandbach)
Philopterus sp.

Hylomanes momotula momotula Lichtenstein
Philopterus momotula

Momotus momota (Linnaeus)
Motmotnirmus marginellus

Momotus coeruliceps coeruliceps (Gould)
Motmotnirmus xilitla

Momotus lessonii goldmani Nelson
Philopterus dennyi

Order Cuculiformes

Family Cuculidae

Coccyzus americanus occidentalis Ridgway
Cuculoecus coccygii

Crotophaga sulcirostris Swainson
Vernoniella macgregori

Piaya cayana (Linnaeus)
Cuculicola atopus

Order Charadriiformes

Family Alcidae

Ptychoramphus aleuticus (Pallas)
Saemundssonina insolita

Synthliboramphus hypoleucus (Xántus de Vesey)
Saemundssonina montereyi

Family Charadriidae

Charadrius nivosus nivosus (Lawrence)
Actornithophilus ochraceus
Quadriceps major

Charadrius wilsonia wilsonia Ord
Quadriceps major

Pluvialis squatarola (Linnaeus)
Actornithophilus ochraceus
Quadriceps hospes

Family Haematopodidae

Haematopus bachmani Audubon
Quadriceps nesiotis
Saemundssonina haematopi

Haematopus palliatus frazari Brewster
Quadriceps auratus
Saemundssonina sp.

Family Jacanidae

Jacana spinosa gymnostoma (Wagler)
Rallicola (Rallicola) exiguifrons

Family Laridae

Anous stolidus ridgwayi Anthony
Actornithophilus incisus

Larus heermanni Cassin
Actornithophilus piceus lari
Austromenopon transversum
Quadriceps punctatus felix

Larus sp.
Actornithophilus piceus lari
Quadriceps punctatus
Saemundssonina lari

Leucophaeus atricilla (Linnaeus)
Quadriceps sp.

Thalasseus sandvicensis Latham
Saemundssonina brevicornis

Family Recurvirostridae

Himantopus mexicanus (Statius-Müller)
Actornithophilus mexicanus
Quadriceps hemichrous
Quadriceps semifissus

Recurvirostra americana Gmelin
Cirrophthirius testudinarius

Family Scolopacidae

Actitis macularius (Linnaeus)
Quadriceps ravus

Arenaria melanocephala (Vigors)
Actornithophilus bicolor
Quadriceps strepsilaris

Calidris alba (Pallas)
Carduiceps zonarius
Luniceps actophilus

Calidris virgata (Gmelin)
Luniceps drosti

Limosa fedoa (Linnaeus)
Carduiceps clayae
Rotundiceps cordatus

Tringa incana (Gmelin)
Quadriceps obtusus

Tringa semipalmatus inornata (Brewster)
Austromenopon sachtlebeni
Quadriceps carrikeri

Tringa sp. (probably *Charadrius* sp.)
Quadriceps major
Saemundssonina platygaster

Order Falconiformes

Family Falconidae

Caracara cheriway (Jacquin)
Acutifrons mexicanus
Colpocephalum maculatum
Degeeriella pricei
Laemobothrion máximo

Caracara lutosa (Ridgway)
Acutifrons caracarensis

Falco mexicanus Schlegel
Degeeriella rufa

Order Galliformes

Family Cracidae

Crax rubra rubra Linnaeus
Amyrsidea (Cracimenopon) rubra
Oxylipeurus globicerus

Ortalis vetula (Wagler)
Chelopistes texanus

Ortalis vetula intermedia J.L. Peters
Amyrsidea (Cracimenopon) spicula

Ortalis vetula mcalli S.F. Baird
Amyrsidea (Cracimenopon) spicula
Chelopistes texanus

Ortalis vetula vetula (Wagler)
Amyrsidea (Cracimenopon) spicula
Chelopistes texanus
Oxylipeurus chiniri

Ortalis wagleri (G.R. Gray)
Amyrsidea (Cracimenopon) wagleri

Penelope purpurascens purpurascens Wagler
Amyrsidea (Cracimenopon) purpurascens
Chelopistes oculari

Family Odontophoridae

Colinus nigrogularis (Gould)
Oxylipeurus callipeplus

Dactylortyx thoracicus (Gambel)
Chelopistes dendrortyx
Oxylipeurus inexpectatus

Dendrortyx barbatus Gould
Oxylipeurus abdominalis

Dendrortyx macroura macroura
Chelopistes dendrortyx

Dendrortyx macroura dilutus Nelson
Oxylipeurus laticapitis

Odontophorus guttatus (Gould)
Chelopistes mexicanus

Philortyx fasciatus (Gould)
Colinicola philortyx

Family Phasianidae

Gallus gallus (Linnaeus)

Goniocotes gallinae

Menopon gallinae

Meleagris gallopavo Linnaeus

Chelopistes meleagridis

Cuclotogaster heterographus

Lipeurus caponis

Menacanthus cornutus

Menacanthus stramineus

Menopon gallinae

Oxylipeurus corpulentus

Oxylipeurus polytrapezius

Meleagris ocellata Cuvier

Oxylipeurus agriocharis

Oxylipeurus ocellatus

Order Gruiformes

Family Aramidae

Aramus guarauna dolosus J.L. Peters

Ibidoecus scolopaceus

Family Heliornithidae

Heliornis fulica (Boddaert)

Fulicoffula heliornis

Pseudomenopon carrikeri

Family Rallidae

Aramides cajaneus mexicanus Bangs

Rallicola (*Rallicola*) *ortygometrae ewingi*

Laterallus ruber (Sclater & Salvin)

Pseudomenopon scopulacorne

Order Passeriformes

Family Bombycillidae

Phainopepla nitens nitens (Swainson)

Brueelia peninsularis

Menacanthus eurysternus

Phainopepla nitens lepida Van Tyne
Brueelia peninsularis

Family Cardinalidae

Cardinalis cardinalis igneus S.F. Baird
Philopterus sp.

Cardinalis sinuatus peninsulae (Ridgway)
Myrsidea dissimilis

Cyanocompsa parellina (Linneo)
Ricinus sp.

Habia sp.
Myrsidea laciniaesternata

Saltator coerulescens vigorsii G.R. Gray
Guimaraesiella saltatora

Family Corvidae

Aphelocoma coerulescens (Bosc)
Brueelia deficiens
Philopterus crassipes

Aphelocoma ultramarina (Bonaparte)
Machaerilaemus cyanocittae

Calocitta formosa azurea Nelson
Colpocephalum hoffmanni
Myrsidea chiapensis
Myrsidea invadens
Philopterus sialii

Corvus corax Linnaeus
Hecatrishula cryptoleuca
Philopterus corvi

Corvus corax sinuatus Wagler
Colpocephalum fregili
Hecatrishula cryptoleuca

Corvus cryptoleucus Couch
Corvonirmus afzali

Cyanocitta stelleri (Gmelin)
Philopterus crassipes

Cyanocitta stelleri coronata (Swainson)
Olivinirmus clayae

Cyanocorax morio (Wagler)

Olivinirmus morionus

Myrsidea sp.

Philopterus underwoodi

Cyanocorax yncas (Boddaert)

Machaerilaemus cyanocittae

Cyanolyca pulchra (Lawrence)

Myrsidea luroris

Corvus sp.

Colpocephalum fregili

Philopterus osborni

Family Cotingidae

Platypsaris aglaiae sumichrasti (Nelson)

Philopterus platypsarus

Family Dendrocolaptidae

Dendrocincla anabatina P.L. Sclater

Rallicola (*Rallicola*) *fuliginosa*

Dendrocincla homochroa P.L. Sclater

Rallicola (*Rallicola*) *deckeri*

Dendrocolaptes certhia (Boddaert)

Rallicola (*Rallicola*) *colombiana*

Family Emberizidae

Amphispiza belli (Cassin)

Brueelia lautiuscula

Atlapetes pileatus pileatus Wagler

Philopterus sp.

Kieneria crissalis albigula (Baird)

Ricinus subhastatus

Junco phaeonotus Wagler

Philopterus sp.

Melozone fusca fusca (Swainson)

Brueelia vulgata

Pipilo maculatus macronyx Swainson
Brueelia vulgate

Passerculus sanctorum Coues
Ricinus diffuses

Pipilo erythrophthalmus (Linnaeus)
Penenirmus quadripustulatus

Spizella passerina mexicana Nelson
Brueelia vulgata

Xenospiza baileyi (Bangs)
Ricinus sp.

Family Formicariidae

Formicarius moniliger P.L. Sclater
Formicaricola analoides

Family Fringillidae

Haemorhous mexicanus (Statius-Müller)
Brueelia vulgata

Family Furnariidae

Synallaxis erythrothorax P.L. Sclater
Rallicola (Rallicola) parvigenitalis

Family Hirundinidae

Petrochelidon fulva citata Van Tyne
Myrsidea sp.
Philopterus excisus

Progne subis hesperia Brewster
Philopterus excisus

Stelgidopteryx serripennis serripennis (Audubon)
Philopterus tropicalis

Tachycineta albilinea (Lawrence)
Acronirmus cruscus

Tachycineta thalassina (Swainson)
Myrsidea dissimilis

Tachycineta thalassina thalassina (Swainson)
Acronirmus albiventris

Family Icteridae

Quiscalus mexicanus (Gmelin)
Bizarrifrons meinertzhageni
Brueelia flinti
Menacanthus quisicali
Myrsidea balteri

Psarocolius bifasciatus (Spix)
Myrsidea mirabilis

Psarocolius montezuma (Lesson)
Bizarrifrons clayae

Family Laniidae

Lanius ludovicianus (Linnaeus)
Menacanthus camelinus

Family Mimidae

Mimus gilvus (Vieillot)
Myrsidea sp.

Mimus polyglottos (Linnaeus)
Guimaraesiella polyglotta

Toxostoma crissale Henry
Brueelia dorsale

Toxostoma curvirostre (Swainson)
Brueelia dorsale

Family Parulidae

Cardellina rubra (Swainsson)
Ricinus pallens

Oreothlypis crissalis (Salvin & Godman)
Menacanthus aurocapillus

Vermivora celata (Say)
Menacanthus aurocapillus

Family Remizidae

Auriparus flaviceps (Sundevall)
Brueelia audax

Auriparus flaviceps ornatus (Lawrence)
Brueelia audax

Family Thamnophilidae

Thamnophilus doliatus (Linnaeus)
Formicaphagus sp.

Family Thraupidae

Thraupis abbas (Deppe)
Guimaraesiella abbasi

Family Troglodytidae

Campylorhynchus rufinucha (Lesson)
Ricinus invadens

Thryomanes bewickii (Audubon)
Menacanthus aedonis

Family Turdidae

Catharus mexicanus mexicanus
Myrsidea destructor

Catharus ustulatus ustulatus
Myrsidea incerta

Turdus grayi Bonaparte
Menacanthus eurysternus
Myrsidea antiqua

Turdus infuscatus (Lafresnaye)
Sturnidoecus mexicanus

Family Tyrannidae

Contopus pertinax pertinax Cabanis & Heine
Myrsidea invadens
Ricinus pallens

Empidonax wrightii Baird

Philoaterus sp.

Empidonax sp.

Philoaterus bruneri

Ricinus sucinaceus

Miodynastes luteiventris P.L. Sclater

Ricinus pallens

Myiarchus nuttingi nuttingi Ridgway

Philoaterus rufus

Pitangus sulphuratus guatemalensis (Lafresnaye)

Philoaterus sp.

Pyrocephalus rubinus mexicanus P.L. Sclater

Picicola foedus

Tolmomyias sulphureus (Spix)

Myrsidea sp.

Philoaterus sp.

Tyrannus vociferans (Swainson)

Ricinus arcuatus

Family Vireonidae

Vireo flavoviridis flavoviridis (Cassin)

Philoaterus sp.

Vireo huttoni Cassin

Brueelia vulgata

Philoaterus sp.

Order Pelecaniformes

Family Fregatidae

Fregata magnificens Mathews

Colpocephalum spineum

Pectinopygus fregatiphagus

Family Pelecanidae

Pelecanus erythrorhynchos Gmelin

Colpocephalum unciferum

Pectinopygus tordoffi

Piagetiella peralis

Pelecanus occidentalis Linnaeus
Colpocephalum occidentalis

Pelecanus occidentalis californicus Ridgway
Colpocephalum occidentalis
Pectinopygus occidentalis

Family Phaethontidae

Phaethon aethereus Linnaeus
Austromenopon beckii
Saemundssonina uppalensis

Family Sulidae

Sula sula websteri Rothschild
Pectinopygus annulatus
Pectinopygus sulae

Sula variegata (Tschudi)
Pectinopygus annulatus
Pectinopygus sulae

Order Piciformes

Family Picidae

Colaptes auratus cafer (Gmelin)
Penenirmus jungens

Colaptes rubiginosus yucatanensis (Cabot)
Penenirmus auritus
Penenirmus sp.

Dryocopus lineatus (Linnaeus)
Penenirmus auritus

Dryocopus lineatus similis (petersi) (van Rossem)
Penenirmus auritus

Melanerpes formicivorus formicivorus
Penenirmus auritus

Melanerpes formicivorus angustifrons
Penenirmus auritus

Melanerpes santacruzi grateloupensis (Lesson)
Penenirmus auritus

Melanerpes uropygialis (Baird)
Menacanthus pici

Picoides arizonae (Hargitt)
Penenirmus auritus

Picoides fumigatus (Orbigny)
Penenirmus auritus

Picoides scalaris (Wagler)
Penenirmus auritus

Picoides scalaris cactophilus (giraudi) Stone
Penenirmus auritus

Sphyrapicus thyroideus (Cassin)
Penenirmus auritus

Sphyrapicus varius Linnaeus
Brueelia straminea

Sphyrapicus varius (varius) Linnaeus
Penenirmus auritus

Family Ramphastidae

Aulacorhynchus prasinus prasinus (Gould)
Austrophilopterus minutus minutus
Traihoriella laticeps

Pteroglossus torquatus (Gmelin)
Austrophilopterus torquatus

Ramphastos sulfuratus Lesson
Austrophilopterus cancellosus
Menacanthus balfouri

Ramphastos sulfuratus sulfuratus Lesson
Austrophilopterus subsimilis

Order Procellariiformes

Family Diomedidae

Phoebastria nigripes (Audubon)
Docophoroides ferrisi
Harrisoniella copei
Paraclisis confidens

Phoebastria immutabilis (Rothschild)
Perineus concinnus

Family Hydrobatidae

Hydrobates macrodactylus Bryant
Austromenopon oceanodromae
Halipeurus raphanus
Longimenopon dominicanum
Hydrobates leucorhous (Vieillot)
Halipeurus pelagicus

Family Procellariidae

Puffinus opisthomelas Coues
Naubates harrisoni
Trabeculus mirabilis

Puffinus auricularis Townsend
Halipeurus placodus
Trabeculus mirabilis

Order Psittaciformes

Family Psittacidae

Amazona albifrons (Sparman)
Paragoniocotes microgaster

Amazona autumnalis (Linnaeus)
Paragoniocotes mexicanus
Psittacobrosus amazonicus

Amazona autumnalis autumnalis (Linnaeus)
Paragoniocotes grandis
Paragoniocotes mexicanus

Amazona viridigenalis (Cassin)
Paragoniocotes mexicanus

Eupsittula astec (Souance)
Paragoniocotes sp.

Pionus senilis (Spix)
Psittacobrosus amazonicus

Rhynchopsitta pachyrhyncha (Swainson)
Heteromenopon sp.
Psittacobrosus sp.

Order Strigiformes

Family Strigidae

Asio flammeus flammeus (Pontoppidan)
Strigiphilus cursor

Asio otus (Linnaeus)
Strigiphilus cursor

Athene cucularia hypugaea (Bonaparte)
Colpocephalum pectinatum
Strigiphilus speotyti

Athene cucularia rostrata (Townsend)
Strigiphilus speotyti

Ciccaba virgata centralis (Griscom)
Strigiphilus virgo

Glaucidium gnoma Wagler
Kurodaia gnomae

Glaucidium ridgwayi Sharpe
Conciella caputonis
Strigiphilus microgenitalis

Order Tinamiformes

Family Tinamidae

Crypturellus boucardi boucardi (P.L. Sclater)
Discocorpus furculus
Heptapsogaster acutiventris
Heptapsogaster modestae
Heptapsogaster tuxtlae
Kelloggia boucardi
Megapeostus multiplex
Pectenosoma angusta
Pseudolipeurus similis
Rhopaloceras heterogenitalis
Strongylocotes fimbriatus

Crypturellus cinnamomeus mexicanus (Salvadori)
Discocorpus mexicanus
Heptapsogaster acutiventris
Heptapsogaster modestae
Heptapsogaster tuxtlae
Kelloggia boucardi
Megapeostus arcaeiceps
Megapeostus secundus

Pectenosoma cinnamomea
Pseudolipeurus similis
Pseudophilopterus similis
Strongylocotes fimbriatus

Crypturellus cinnamomeus sallaei (Bonaparte)

Megapeostus secundus
Pectenosoma cinnamomea
Pseudolipeurus similis
Pseudophilopterus similis
Strongylocotes fimbriatus

Crypturellus soui meserythrus (P.L. Sclater)

Heptapsogaster tapicollae
Megaginus emarginatus
Pectenosoma meserythra
Rhopaloceras rudimentarius
Strongylocotes subconiceps

Tinamus major percautus Van Tyne

Heptapsogaster minutus
Kelloggia mexicanus
Ornicholax robustus
Pseudolipeurus tinami
Pterocotes aberrans
Strongylocotes cordiceps

Order Trogoniformes

Family Trogonidae

Trogon collaris puella Gould
Trogoninirmus hastiformis

Trogon massena Gould
Guimaraesiella cicchini

Trogon melanocephalus Gould
Guimaraesiella cicchini

Class Mammalia

Order Artiodactyla

Family Bovidae

Bos primigenius taurus Bojanus
Bovicola (Bovicola) bovis

Capra aegagrus hircus (Linnaeus)
Bovicola (Bovicola) caprae
Bovicola (Bovicola) limbatus

Ovis orientalis aries (Linnaeus)
Bovicola (Bovicola) ovis

Family Cervidae

Odocoileus virginianus mexicanus (Gmelin)
Tricholipeurus lipeuroides

Order Carnivora

Family Canidae

Canis lupus familiaris Linnaeus
Bovicola caprae
Heterodoxus spiniger

Family Mustelidae

Mustela sp. Linnaeus
Neotrichodectes (Neotrichodectes) minutus

Family Procyonidae

Nasua narica narica (Linnaeus)
Neotrichodectes (Nasuicola) pallidus
Stachiella octomaculatus

Potos flavus (Schreber)
Stachiella potus

Procyon lotor (Linnaeus)
Stachiella octomaculatus

Order Rodentia

Family Caviidae

Cavia porcellus (Linnaeus)
Gliricola porcelli
Gyropus ovalis

Family Erenthizontidae

Coendou mexicanus mexicanus (Kerr)
Eutrichophilus mexicanus

Coendou mexicanus yucataniae (Thomas)
Eutrichophilus mexicanus

Family Geomyidae

Cratogeomys castanops castanops (Baird)
Geomydoecus (*Geomydoecus*) *expansus*
Geomydoecus (*Geomydoecus*) *tamaulipensis*
Geomydoecus (*Geomydoecus*) *ustulati ustulati*

Cratogeomys castanops consitus Nelson & Goldman
Geomydoecus (*Geomydoecus*) *expansus*
Geomydoecus (*Geomydoecus*) *martini*
Geomydoecus (*Geomydoecus*) *subnubili*
Geomydoecus (*Geomydoecus*) *ustulati ustulati*

Cratogeomys fulvescens Merriam
Geomydoecus (*Geomydoecus*) *fulvescens*
Geomydoecus (*Geomydoecus*) *veracruzensis*

Cratogeomys fumosus (Merriam)
Geomydoecus (*Geomydoecus*) *mcgregori*

Cratogeomys fumosus angustirostris (Merriam)
Geomydoecus (*Geomydoecus*) *expansus*
Geomydoecus (*Geomydoecus*) *mcgregori*
Geomydoecus (*Geomydoecus*) *polydentatus angustirostris*
Geomydoecus (*Geomydoecus*) *polydentatus polydentatus*
Geomydoecus (*Geomydoecus*) *wernecki wernecki*

Cratogeomys fumosus fumosus (Merriam)
Geomydoecus (*Geomydoecus*) *expansus*
Geomydoecus (*Geomydoecus*) *mcgregori*
Geomydoecus (*Geomydoecus*) *telli*

Cratogeomys fumosus imparilis (Goldman)
Geomydoecus (*Geomydoecus*) *wernecki wernecki*

Cratogeomys fumosus tylorhinus (Merriam)
Geomydoecus (*Geomydoecus*) *merriami*
Geomydoecus (*Geomydoecus*) *polydentatus polydentatus*
Geomydoecus (*Geomydoecus*) *traubi*
Geomydoecus (*Geomydoecus*) *wernecki planiceps*
Geomydoecus (*Geomydoecus*) *wernecki wernecki*

Cratogeomys goldmani goldmani Merriam
Geomydoecus (Geomydoecus) expansus
Geomydoecus (Geomydoecus) martini
Geomydoecus (Geomydoecus) subnubili

Cratogeomys goldmani subnubilus Nelson & Goldman
Geomydoecus (Geomydoecus) expansus
Geomydoecus (Geomydoecus) martini
Geomydoecus (Geomydoecus) subnubili

Cratogeomys merriami merriami (Thomas)
Geomydoecus (Geomydoecus) coronadoi submerriami

Cratogeomys merriami estor (Merriam)
Geomydoecus (Geomydoecus) coronadoi coronadoi

Cratogeomys merriami saccharalis (Nelson & Goldman)
Geomydoecus (Geomydoecus) coronadoi saccharalis
Geomydoecus (Geomydoecus) mexicanus

Cratogeomys perotensis Merriam
Geomydoecus (Geomydoecus) coronadoi coronadoi
Geomydoecus (Geomydoecus) perotensis perotensis

Cratogeomys merriami (Thomas)
Geomydoecus (Geomydoecus) merriami
Geomydoecus (Geomydoecus) perotensis irolonis
Geomydoecus (Geomydoecus) traubi

Cratogeomys sp.
Geomydoecus (Geomydoecus) perotensis irolonis
Geomydoecus (Geomydoecus) subnubili

Geomys arenarius arenarius Merriam
Geomydoecus (Geomydoecus) quadridentatus

Geomys personatus True
Geomydoecus (Geomydoecus) texanus texanus

Geomys tropicalis Goldman
Geomydoecus (Geomydoecus) texanus texanus
Geomydoecus (Geomydoecus) texanus tropicalis

Orthogeomys grandis alleni Nelson & Goldman
Geomydoecus (Geomydoecus) alleni

Orthogeomys grandis felipensis Nelson & Goldman
Geomydoecus (Geomydoecus) jonesi

Orthogeomys hispidus chiapensis (Nelson & Goldman)
Geomydoecus (Geomydoecus) chapini

Orthogeomys hispidus concavus (Nelson & Goldman)
Geomydoecus (Geomydoecus) copei

Orthogeomys hispidus hispidus (J.L. Le Conte)
Geomydoecus (Geomydoecus) copei
Geomydoecus (Geomydoecus) hoffmanni

Orthogeomys hispidus isthmicus (Nelson & Goldman)
Geomydoecus (Geomydoecus) hoffmanni

Orthogeomys hispidus negatus (Goodwin)
Geomydoecus (Geomydoecus) copei

Orthogeomys hispidus teapensis (Goldman)
Geomydoecus (Geomydoecus) chapini

Orthogeomys hispidus tehuantepecus (Goldman)
Geomydoecus (Geomydoecus) hoffmanni

Orthogeomys hispidus torridus (Merriam)
Geomydoecus (Geomydoecus) copei
Geomydoecus (Geomydoecus) hoffmanni

Orthogeomys hispidus yucatanensis (Nelson & Goldman)
Geomydoecus (Geomydoecus) yucatanensis

Pappogeomys bulleri albinasus Merriam
Geomydoecus (Geomydoecus) alcorni
Geomydoecus (Geomydoecus) bulleri bulleri
Geomydoecus (Geomydoecus) nadleri

Pappogeomys bulleri amecensis Goldman
Geomydoecus (Geomydoecus) bulleri bulleri

Pappogeomys bulleri alcorni (Russell)
Geomydoecus (Geomydoecus) alcorni
Geomydoecus (Geomydoecus) polydentatus polydentatus

Pappogeomys bulleri bulleri (Thomas)
Geomydoecus (Geomydoecus) bulleri bulleri

Pappogeomys bulleri burti Goldman
Geomydoecus (Geomydoecus) burti

Pappogeomys bulleri infuscus Russell
Geomydoecus (Geomydoecus) bulleri bulleri

Pappogeomys bulleri lutulentus Russell
Geomydoecus (Geomydoecus) bulleri bulleri

Pappogeomys bulleri melanurus Genoway & Jones
Geomydoecus (Geomydoecus) bulleri melanuri

Pappogeomys bulleri nayaritensis Goldman

Geomydoecus (Geomydoecus) pricei

Geomydoecus (Geomydoecus) nadleri

Pappogeomys bulleri subspecies

Geomydoecus (Geomydoecus) bulleri intermedius

Pappogeomys gymnurus gymnurus (Merriam)

Geomydoecus (Geomydoecus) bulleri bulleri

Pappogeomys sp.

Geomydoecus (Geomydoecus) mcgregori

Thomomys atrovarius atrovarius J.A. Allen

Geomydoecus (Geomydoecus) extimi

Geomydoecus (Geomydoecus) musculi

Geomydoecus (Geomydoecus) nayaritensis

Thomomys atrovarius J.A. Allen

Geomydoecus (Geomydoecus) musculi

Geomydoecus (Geomydoecus) umbrini

Thomomys bottae abbotti Huey

Geomydoecus (Geomydoecus) bajaiensis

*Thomomys bottae albatu*s Grinnell

Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae analogus Goldman

*Geomydoecus (Geomydoecus) actuos*i

Geomydoecus (Geomydoecus) californicus

Thomomys bottae angustidens R.H. Baker

Geomydoecus (Geomydoecus) limitaris limitaris

Thomomydoecus (Thomomydoecus) minor

Thomomys bottae anitae J.A. Allen

Geomydoecus (Geomydoecus) bajaiensis

Geomydoecus (Geomydoecus) californicus

Geomydoecus (Geomydoecus) clausonae

Thomomys bottae aphrastus Elliot

Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae basilicae Benson & Tillotson

Geomydoecus (Geomydoecus) minor

Geomydoecus (Geomydoecus) subcalifornicus

Thomomydoecus (Thomomydoecus) minor

Thomomys bottae borjasensis Huey

Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae bottae (Eydoux & Gervais)
Geomydoecus (Geomydoecus) centralis

Thomomys bottae brazierhowelli Huey
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae cactophilus Huey
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae camoae Burt
Geomydoecus (Geomydoecus) centralis
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae catavinensis (Huey)
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae convergens Nelson & Goldman
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae cunicularis Huey
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae divergens Nelson & Goldman
Thomomydoecus (Thomomydoecus) birneyi
Thomomydoecus (Thomomydoecus) minor
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae estanciae Benson & Tillotson
Geomydoecus (Geomydoecus) centralis

Thomomys bottae homorus Huey
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae humilis R.H. Baker
Geomydoecus (Geomydoecus) limitaris limitaris

Thomomys bottae jobobae Huey
Thomomydoecus (Thomomydoecus) timmi
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae juarezensis Huey
Geomydoecus (Geomydoecus) californicus
Thomomydoecus (Thomomydoecus) timmi

Thomomys bottae lucidus Hall
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae martirensis J.A. Allen
Geomydoecus (Geomydoecus) bajaiensis
Geomydoecus (Geomydoecus) californicus
Geomydoecus (Geomydoecus) subcalifornicus
Thomomydoecus (Thomomydoecus) timmi

Thomomys bottae modicus Goldman
Geomydoecus (Geomydoecus) limitaris bakeri
Geomydoecus (Geomydoecus) limitaris tolteci
Geomydoecus (Geomydoecus) subcalifornicus
Thomomydoecus (Thomomydoecus) minor

Thomomys bottae nigricans Rhoads
Geomydoecus (Geomydoecus) californicus
Thomomydoecus (Thomomydoecus) timmi

Thomomys bottae perditus Merriam
Geomydoecus (Geomydoecus) actuosus
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae proximarinus Huey
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae pusillus Goldman
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae retractus R. H. Baker
Geomydoecus (Geomydoecus) actuosus
Thomomydoecus (Thomomydoecus) minor

Thomomys bottae rhizophagus Huey
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae ruricola Huey
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae russeolus Nelson & Goldman
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae sanctidiegi Huey
Geomydoecus (Geomydoecus) californicus

Thomomys bottae siccovallis Huey
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae simulus Nelson & Goldman
Geomydoecus (Geomydoecus) californicus
Geomydoecus (Geomydoecus) sinaloae
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae sinaloae Merriam
Geomydoecus (Geomydoecus) californicus
Geomydoecus (Geomydoecus) centralis
Geomydoecus (Geomydoecus) sinaloae

Thomomys bottae sturgisi Goldman
Geomydoecus (Geomydoecus) actuosus
Thomomydoecus (Thomomydoecus) minor

Thomomys bottae toltecus J.A. Allen
Geomydoecus (Geomydoecus) centralis
Geomydoecus (Geomydoecus) limitaris tolteci
Thomomydoecus (Thomomydoecus) minor

Thomomys bottae villai R. H. Baker
Geomydoecus (Geomydoecus) limitaris limitaris

Thomomys bottae winthropi Nelson & Goldman
Geomydoecus (Geomydoecus) subcalifornicus

Thomomys bottae xerophilus Huey
Geomydoecus (Geomydoecus) bajaiensis

Thomomys bottae subspecies (Eydoux & Gervais)
Geomydoecus (Geomydoecus) bajaiensis
Geomydoecus (Geomydoecus) californicus

Thomomys sheldoni chihuahuae Nelson & Goldman
Geomydoecus (Geomydoecus) chihuahuae chihuahuae
Geomydoecus (Geomydoecus) chihuahuae emersoni
Geomydoecus (Geomydoecus) pattoni
Geomydoecus (Geomydoecus) warmanae
Geomydoecus (Geomydoecus) welleri welleri
Thomomydoecus (Thomomydoecus) asymmetricus
Thomomydoecus (Thomomydoecus) genowaysi
Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus arriagensis Dalquest
Geomydoecus (Geomydoecus) warmanae
Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus atrodorsalis Nelson & Goldman
Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus camargensis Anderson
Geomydoecus (Geomydoecus) warmanae

Thomomys umbrinus crassidens Nelson & Goldman
Geomydoecus (Geomydoecus) welleri multilineatus
Thomomydoecus (Thomomydoecus) potteri
Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus durangi Nelson & Goldman
Geomydoecus (Geomydoecus) umbrini
Geomydoecus (Geomydoecus) welleri welleri
Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus eximius Nelson & Goldman
Geomydoecus (Geomydoecus) umbrini

Thomomys umbrinus enixus Nelson & Goldman

Geomydoecus (Geomydoecus) welleri multilineatus

Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus goldmani Merriam

Geomydoecus (Geomydoecus) warmanae

Geomydoecus (Geomydoecus) welleri welleri

Thomomydoecus (Thomomydoecus) genowaysi

Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus juntae Anderson

Geomydoecus (Geomydoecus) chihuahuae chihuahuae

Geomydoecus (Geomydoecus) warmanae

Geomydoecus (Geomydoecus) welleri welleri

Thomomydoecus (Thomomydoecus) genowaysi

Thomomydoecus (Thomomydoecus) greeri

Thomomys umbrinus madrensis Nelson & Goldman

Geomydoecus (Geomydoecus) chihuahuae chihuahuae

Geomydoecus (Geomydoecus) warmanae

Geomydoecus (Geomydoecus) welleri welleri

Thomomydoecus (Thomomydoecus) genowaysi

Thomomys umbrinus nelsoni Merriam

Geomydoecus (Geomydoecus) warmanae

Thomomydoecus (Thomomydoecus) genowaysi

Thomomys umbrinus newmani Dalquest

Geomydoecus (Geomydoecus) welleri multilineatus

Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus potosinus Nelson & Goldman

Geomydoecus (Geomydoecus) warmanae

Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus pullus Hall & Villa-Ramírez

Geomydoecus (Geomydoecus) welleri welleri

Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus sonoriensis Nelson & Goldman

Geomydoecus (Geomydoecus) crovelloi

Geomydoecus (Geomydoecus) subcalifornicus

Geomydoecus (Geomydoecus) warmanae

Thomomydoecus (Thomomydoecus) birneyi

Thomomys umbrinus supernus Nelson & Goldman

Geomydoecus (Geomydoecus) welleri multilineatus

Thomomydoecus (Thomomydoecus) jamesbeeri

Thomomys umbrinus umbrinus (Richardson)

Geomydoecus (Geomydoecus) welleri welleri

Thomomydoecus (Thomomydoecus) markhafneri

Thomomys umbrinus zacatecae Nelson & Goldman
Geomydoecus (Geomydoecus) umbrini
Geomydoecus (Geomydoecus) warmanae
Geomydoecus (Geomydoecus) welleri multilineatus
Thomomydoecus (Thomomydoecus) zacatecae

Thomomys umbrinus (Richardson)
Geomydoecus (Geomydoecus) californicus
Geomydoecus (Geomydoecus) centralis
Geomydoecus (Geomydoecus) cliftoni
Geomydoecus (Geomydoecus) expansus
Geomydoecus (Geomydoecus) jaliscoensis
Geomydoecus (Geomydoecus) nayaritensis
Geomydoecus (Geomydoecus) subcalifornicus
Geomydoecus (Geomydoecus) toluca
Geomydoecus (Geomydoecus) umbrini
Geomydoecus (Geomydoecus) warmanae
Geomydoecus (Geomydoecus) welleri welleri
Thomomydoecus (Thomomydoecus) birneyi
Thomomydoecus (Thomomydoecus) dickermani
Thomomydoecus (Thomomydoecus) johnhafneri
Thomomydoecus (Thomomydoecus) neocopei
Thomomydoecus (Thomomydoecus) orizabae
Thomomydoecus (Thomomydoecus) peregrini
Thomomydoecus (Thomomydoecus) williamsi

Thomomys sp.
Geomydoecus (Geomydoecus) umbrini
Thomomydoecus (Thomomydoecus) neocopei

Zygogeomys trichopus tarascensis Goldman
Geomydoecus (Geomydoecus) trichopi

Zygogeomys trichopus trichopus Merriam
Geomydoecus (Geomydoecus) mcgregori
Geomydoecus (Geomydoecus) trichopi

Discussion

Three hundred and forty two species of chewing lice (77 in the suborder Amblycera and 265 in the suborder Ischnocera) have been recorded in Mexico, representing only 7.7% of the 4,464 species recorded worldwide until 2002 (Price *et al.* 2003). Also, 206 species of birds and 28 species of mammals have been recorded as hosts for lice in Mexico, representing only 18% of the total bird fauna—estimated at 1,123–1,150 species by Navarro-Sigüenza *et al.* (2014)—and only 5.64% of the 496 land mammal species listed by Ramírez-Pulido *et al.* (2014) for Mexico. In particular, the orders Passeriformes (66 species) and Rodentia (20) have the highest number of chewing lice recorded from them, with 60 and 69 species respectively.

Although there are species of chewing lice recorded from 31 of the 32 Mexican States, the highest diversity is in Veracruz with 63 species, followed by San Luis Potosí (56) and Baja California (51). By contrast, states with the lowest louse diversity are Morelos with 3 species, Querétaro and Aguascalientes (2). Guerrero is the only State that lacks records (Fig. 1A, B). The most widespread species are *Geomydoecus (Geomydoecus) welleri* and *G. (G.) warmanae*, while 176 species (51.46%) have been recorded from a single State. A total of 130 species have been

described from type specimens collected in Mexico, which are deposited in ten collections around the world, as indicated above under each species. Unfortunately, some types deposited in the Colección Nacional de Insectos Instituto de Biología, Universidad Nacional Autónoma de México (CNIN) have been lost.

These insects have a relevant role in veterinary medicine, since they negatively affect livestock and poultry production by generating intense pruritus in the hosts, which can lead to loss of hair or feathers and in severe cases can cause to injury. Also, lice are known to transmit microorganisms that cause disease (Durden & Loyd 2009) and have an important role as intermediate hosts of some helminths such as tapeworms (e.g. *Dypilidium caninum* in *Trichodectes canis*: Traviña-Muñoz *et al.* 2017) and roundworms (e.g. *Eulimdana wongae* in lice from *Limosa fedoa*: Bartlett 1993; Durden & Loyd 2009). Kumsa *et al.* (2012) have identified *Acinetobacter* and *Rickettsia* pathogens from several species of lice parasitic on domestic animals in Africa, which can produce respiratory and urinary tract infections, as well as infections in exposed wounds in humans. Pathogens such as *Rickettsia prowazekii* and *Rickettsia felis*—aetiological agents of epidemic typhus and *R. felis* rickettsiosis—have been detected in lice, so their role as potential vectors of these microorganisms is uncertain and should be studied (Mediannikov *et al.* 2014; Merhej *et al.* 2014).

Considering the large number of bird and mammal species living in Mexico, many more species of chewing lice are expected to be found on hosts that have not yet been searched for them in this country. It is essential to undertake systematic studies of this insect group, in order to elucidate their importance as components of biodiversity, aspects of their biology, ecology, biogeography, and phylogenetic relationships.

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