

An Annotated Catalog of  
Primary Types of Siphonaptera in the  
National Museum of Natural History,  
Smithsonian Institution

NANCY E. ADAMS  
and  
ROBERT E. LEWIS

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## ABSTRACT

Adams, Nancy E., and Robert E. Lewis. An Annotated Catalog of Primary Types of Siphonaptera in the National Museum of Natural History, Smithsonian Institution. *Smithsonian Contributions to Zoology*, number 560, 86 pages, 1995.—Annotated accounts for the 417 siphonapteran primary types in the collection of the National Museum of Natural History, Smithsonian Institution, are presented. Each account includes the name, author, date of description, genus, computer reference number, citation, collection locality, host species, date of collection, and collector, if known. The kind of primary type and its sex are designated, accompanied by the USNM type number. The remarks section includes the current status of the name and other pertinent information. Of these accounts, 63 names are junior synonyms, one of which is synonymized here. Of the remaining 354 valid taxa, nine primary types are in the Natural History Museum, London, although for various reasons they warrant further discussion. Twenty-seven lectotypes are designated. Five appendices are included. They are an alphabetical index of host/parasite names by species; a list of junior synonyms and their equivalents; a list of type localities by country and the species described from them; an alphabetical list of the valid genera, species, and subspecies represented by primary types in the collection, including their USNM numbers; and the supraspecific classification of the Siphonaptera.

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## Introduction

In accordance with Recommendation 72G (4) of the International Commission on Zoological Nomenclature (1985:147, hereafter referred to as the *Code*), which states that: "Every institution in which name-bearing types are deposited should ... publish lists of name-bearing types in its possession or custody ...," we present a list of primary types of Siphonaptera in the National Museum of Natural History (USNM), Smithsonian Institution. Our sources of data and methods are explained below. But first we present a few words about the typological interpretations employed here.

The use of the term TYPE has had a long and often confusing history. Some early workers did not designate types, while others applied the term to all of the specimens available to them at the time of description. Two of the best analyses of types and typology are in Mayr et al. (1953:236–245) and Blackwelder (1967:196 et seq.); a more legalistic approach is in the *Code*. The glossary in the *Code* defines 11 kinds of types. Blackwelder divides these, and a few others, into three categories: primary, secondary, and tertiary. While we are concerned here only with primary types, other categories

appear on the labels of some specimens and require explanation. As Blackwelder so aptly stated, "... the only direct purpose served by most types is to show to what the name is to be applied ...." Here are the categories encountered, their definitions, and our interpretations.

## *Primary Types*

**HOLOTYPE.**—A single specimen, preferably of the diagnostic sex in dimorphic forms, established as the name-bearing type of a species or subspecies at the time of description, or the sole specimen upon which the taxon was based when no type was specified (monotypy) [Article 73a].

**LECTOTYPE.**—A syntype (or cotype of earlier workers) designated as the single name-bearing specimen at some time subsequent to the description of a name-bearing species or subspecies [Article 74]. According to Article 74(c) of the current *Code* "... each [lectotype] designation must be made specifically for an individual nominal species-group taxon and must have as its object the definition of that taxon." A designated specimen from the syntype series of the opposite sex from the lectotype is called an allolectotype and is not considered any kind of type.

**NEOTYPE.**—The single specimen designated as the name-bearing type of a species or subspecies for which no holotype, lectotype, syntype, or prior neotype is known to exist [Article 75].

## *Secondary Types*

**SYNTYPE** (= cotype of earlier workers).—Any specimen of a type series from which neither holotype nor lectotype has been

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designated [Articles 72a (ii), 73b, 74]. In some instances "cotype" has been used instead of "allotype."

PARALECTOTYPE.—Any specimen remaining from a syntype series after designation of a lectotype [Article 72a (ii), Recommendation 74F].

### Tertiary Types

PARATYPE.—Any specimen of a type series other than the holotype (once a holotype has been designated) [Article 72a (iii), Recommendation 73D].

ALLOTYPE.—A designated specimen of the opposite sex to the holotype. Not regulated by the *Code*, but equivalent to a paratype [Recommendation 72A]. This category requires further explanation as it is applied in this catalog. Fleas, by their very nature, cannot be adequately studied unless mounted on microscope slides. When series with both sexes are available, it is not uncommon for a male and a female to be mounted on the same slide. With rare exception the male is the diagnostic sex in these insects, and with slides bearing the holotype and allotype, without reference to their sex, we are assuming the former to be the male and the latter to be the female.

Recommendation 72A of the *Code* recommends that authors avoid applying the term allotype to specimens other than paratypes. There are a few instances in the collection where nonparatypic specimens have been designated allotypes by subsequent authors and attention is called to these in the annotations. Strictly speaking, while they may be the first instance of that sex being described or illustrated, they actually have no type status according to our interpretation of the *Code*.

In the process of assembling the data for this catalog we have attempted to trace the history of the specimens thought to represent the primary types of the taxa involved. Due to inconsistent practices of earlier students of this group of insects, some species are represented by series of specimens of equal nomenclatural rank since all specimens available at the time of description were labeled "type." In other instances a single specimen was labeled "type" and the remaining individuals in the series were labeled "cotype." Where the distinction has been drawn between "type" and "cotype," we have either treated the "type" as the holotype or, in some instances, designated it as the lectotype. Where a species is only represented by a series of syntypes we have designated a lectotype and, on the advice of one of the reviewers, where possible an allolectotype. Any additional specimens in the type series, irrespective of their sex, automatically become paralectotypes. For the convenience of the reader, following is a list of taxa for which lectotypes have been designated, and their current equivalents.

*affinis*, *Pulex* = *Euhoplopsyllus glacialis affinis* (Baker, 1904)

*alaskensis*, *Ceratophyllus* = *Oropsylla (Oropsylla) alaskensis* (Baker, 1904)

*alpina*, *Typhlopsylla* = *Stenistomera alpina* (Baker, 1895e)  
*anomalus*, *Pulex* = *Hoplopsyllus anomalus* (Baker, 1904)  
*arctomys*, *Ceratophyllus* = *Oropsylla (Oropsylla) arctomys* (Baker, 1904)

*becki*, *Megarhroglossus* = *Megarhroglossus becki* Tipton and Allred, 1952

*brasiliensis*, *Pulex* = *Xenopsylla brasiliensis* (Baker, 1904)  
*bruneri*, *Pulex* = *Oropsylla (Opisocrostis) bruneri* (Baker, 1895c)

*citelli*, *Ceratophyllus* = *Thrassi fotus* (Jordan, 1925)  
*dissimilis*, *Malaraeus penicilliger* = *Amalaraeus dissimilis* (Jordan, 1938)

*divisus*, *Pulex* = *Megarhroglossus divisus* (Baker, 1898)  
*dugesii*, *Pulex irritans* var. = *Pulex simulans* Baker, 1895a  
*eremicus*, *Ceratophyllus* = *Malaraeus eremicus* (Baker, 1904)

*floridensis*, *Trichopsylla* = *Chaetopsylla (Chaetopsylla) floridensis* (I. Fox, 1939a)

*fraternus*, *Typhlopsylla* = *Rhadinopsylla (Actenophthalmus) fraterna* (Baker, 1895e)

*gillettei*, *Pulex* = *Orchopeas howardi howardi* (Baker, 1895b)

*hadweni*, *Amphipsylla* = *Mioctenopsylla arctica hadweni* (Ewing, 1927)

*idahoensis*, *Ceratophyllus* = *Oropsylla (Oropsylla) idahoensis* (Baker, 1904)

*javanicus*, *Ceratophyllus* = *Paraceras javanicum* (Ewing, 1924)

*lutzi*, *Pulex* = *Rhopalopsyllus lutzi lutzi* (Baker, 1904)

*lynx*, *Pulex* = *Euhoplopsyllus glacialis lynx* (Baker, 1904)

*montanus*, *Pulex* = *Oropsylla (Diamanus) montana* (Baker, 1895c)

*nudata*, *Typhlopsylla* = *Anomiopsyllus nudatus nudatus* (Baker, 1898)

*orectus*, *Megabothris asio* = *Megabothris asio* (Baker, 1904)

*parkeri*, *Phalacropsylla* = *Meringis parkeri* (Jordan, 1937a)

*pseudarctomys*, *Ceratophyllus* = *Opisodasys (Opisodasys) pseudarctomys* (Baker, 1904)

*reconditus*, *Ctenophthalmus* = *Ctenophthalmus (Palaeoctenophthalmus) reconditus* Peus, 1977

*sexdentatus*, *Ceratophyllus* = *Orchopeas sexdentatus sexdentatus* (Baker, 1904)

The reader will note that the lectotypes of 10 of the species named by C.F. Baker now reside in the collection of the British Museum (Natural History) in London. Some time between 1905 and 1915 Baker sold his collection of fleas to N.C. Rothschild. Much to Rothschild's chagrin, no primary types were included in the sale, but there were a number of syntypes due to Baker's labeling habits. Some of these have since been designated lectotypes and include the following taxa. The



current status of each name is reviewed and those names preceded by a (†) are discussed further in the appropriate accounts.

*acutus*, *Ceratophyllus*. Lectotype ♂, designated by Smit and Wright, 1978b:3. A junior synonym of *Oropsylla* (*Diamanus*) *montana* (Baker, 1895c).

*americana*, *Typhlopsylla*. Lectotype ♂, designated by Jordan and Rothschild, 1915:54. A junior synonym of *Foxella* (*Foxella*) *ignota ignota* (Baker, 1895b).

*californicus*, *Anomiopsyllus*. Holotype ♀, by monotypy. Now a junior synonym of *Animiopsyllus nudatus nudatus* (Baker, 1898).

*charlottensis*, *Typhlopsylla*. Lectotype ♀, designated by Smit and Wright, 1978b:12. Now *Catallagia charlottensis* (Baker, 1898).

†*hirsutus*, *Pulex*. Lectotype ♀, designated by Smit and Wright, 1978b:23. Now *Oropsylla* (*Opisocrostis*) *hirsuta* (Baker, 1895c).

†*howardi*, *Pulex*. Lectotype ♂, designated by Hopkins, 1954:198. Now *Orchopeas howardi howardi* (Baker, 1895b).

†*inaequalis*, *Pulex*. Lectotype ♂, designated by Hopkins and Rothschild, 1953:180. Now *Cediopsylla inaequalis inaequalis* (Baker, 1895d).

†*keeni*, *Pulex*. Lectotype ♂, designated by Smit and Wright, 1978b:26. Now *Opisodasys* (*Oxyopsylla*) *keeni* (Baker, 1896b).

†*simulans*, *Pulex*. Lectotype ♀, designated by Smit, 1958b:525. Now *Pulex* (*Pulex*) *simulans* Baker, 1895a.

†*wickhami*, *Pulex*. Lectotype ♀, designated by Hopkins, 1954:198. A junior synonym of *Orchopeas howardi howardi* (Baker, 1895b).

An additional nine species are represented by holotypes or lectotypes in the Natural History Museum, London (formerly the British Museum (Natural History) (BMNH)). *Opisodasys* (*Sciuropsylla*) *robustus robustus* (Jordan, 1925) has a ♀ holotype by author designation. *Malacopsylla grossiventris* Weyenbergh, 1879, has a lectotype ♂ that was designated by Hopkins, 1962:266. *Opisodasys* (*Opisodasys*) *vesperalis* (Jordan, 1929a) has a ♂ lectotype designated by Smit and Wright, 1978b. The remaining species, *Macrostylophora levis* (Jordan and Rothschild, 1922a) (♂), *Opisodasys* (*Sciuropsylla*) *enoplus* (Rothschild, 1909) (♂), *Spicata comis* (Jordan, 1929a) (♀) and *Stivalius cognatus spiramus* Jordan, 1926 (♀) have holotypes of the indicated sex by virtue of monotypy. Each is discussed further under the appropriate species heading.

#### SOURCES OF DATA

Information included in each species treatment has been

taken from the original description of the taxon. The draft was then compared with the information included on the slide labels themselves. In order to clarify or supplement the available information, feet and miles have been converted to the metric system and rounded off to the nearest whole number, a 5-digit computerization number unique to that species has been included in brackets [ ] after the name in the heading, and additional geopolitical information, such as countries, provinces, districts, etc., where available, have been added to assist in pinpointing collection localities. Information not included on the slide label but derived from other sources is also enclosed in brackets. We have also included map coordinates, i.e., 12.34°N, 12.34°W, when possible. Many of these have been drawn from the indices of the five-volume Mid-Century Edition of *The Times Atlas of the World*, (1955–1959), but many have also come from various gazetteers available in the library of Iowa State University. In some instances, collection localities were calculated from maps. In such cases the coordinates are prefixed by ~ [= approximately].

Names of hosts follow current usage as employed in the Peters series, (1931–1987), the *American Ornithologist's Union Check-list* (1983), and Sibley and Monroe (1990) for birds, and Wilson and Reeder (1993) and Nowak (1991) for mammals. Host synonymy is indicated in the text.

Since this is a catalog of primary types, not of synonymies, the names of species and subspecies are listed in italicized boldface type whether they are currently valid or not. Although allotypes are not primary types, they are included here when present in the collection, albeit some are invalid in current practice. Junior synonyms are preceded by an asterisk.

Of the more than 400 types said to be at the National Museum of Natural History, we were unable to find four. They are listed here in the hope that they will be located subsequently: *Amaradix bitterrootensis bitterrootensis* (Dunn in Dunn and Parker, 1923); *Ceratophyllus peromysci* Stewart, 1928; *Spicata comis scapoossei* (Hubbard, 1954); and *Mioctenopsylla traubi traubi* Holland and Jellison, 1952.

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## Primary Type List

- acanthus** Lewis, 1974a. *Paradoxopsyllus* [97408].  
Journal of Medical Entomology, 11(1):46, figures 1-5.  
NEPAL [Mugu District], Karnali Zone, Rara Lake,  
[29.34°N, 82.05°E, 3000 m], from *Rattus rattoides* [= *turkestanicus*], 12 March 1969, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on one slide, USNM 72539.
- aestivalis** Jameson and Sakaguti, 1954. *Stivalius* [95433].  
Journal of Parasitology, 40(4):374, figures 2A-D, 3A-F.  
JAPAN, Honshu [Island], Kyoto Prefecture [~13 km N,  
Kyoto City], Hanase [~35.05°N, 135.45°E], 2500' [762  
m], from *Apodemus speciosus*, 11 June 1952, E.W.  
Jameson, Jr.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM  
62232.  
REMARKS.—Now *Lentistivalius* (*Lentistivalius*) *aestivalis*  
(Jameson and Sakaguti).
- affinis** Baker, 1904. *Pulex* [90410].  
Proceedings of the United States National Museum,  
27(1361):382.  
USA, Arizona [Coconino County], near Grand Canyon,  
[~36.04°N, 112.07°W], from a cottontail rabbit [= *Sylvilagus* sp.], 7-6-92 [6 July 1892], A.B. Cordley.  
TYPE, sex not stated, USNM 6898.  
REMARKS.—Now *Euhoplopsyllus glacialis affinis* (Baker).  
The slide contains a male and a female and we here  
designate the male as the LECTOTYPE and the female as  
the allectotype.
- agadirensis** Hastriter and Tipton, 1975. *Leptopsylla* (*Leptop-*  
*sylla*) *algira* [97554].  
Journal of the Egyptian Public Health Association,  
50(2):146, figures 63-69.  
MOROCCO, Agadir Province, 16 km W Aoulouz,  
[30.42°N, 08.10°W], 2000 ft [610 m], from *Mastomys*  
*natalensis*, 13 March 1970, R.E. Vaden.  
HOLOTYPE ♂, Allotype ♀, USNM 73817.
- agilis** Eads, 1960. *Meringis* [96029].  
Journal of Parasitology, 46(2):215, plate II: figures A-E.  
USA, Texas, Brewster County, Big Bend National Park,  
Panther Junction [~29.20°N, 103.19°W], from *Per-*  
*ognathus merriami*, 20 February 1958, R.D. P[orter].  
HOLOTYPE ♂, Allotype ♀, USNM 65455.  
REMARKS.—The allotype female is from the same locality  
but from *Perognathus* [= *Chaetodipus*] *nelsoni*, 12  
February 1959.
- alaskensis** Baker, 1904. *Ceratophyllus* [90415].  
Proceedings of the United States National Museum,  
27(1361):394.  
USA, Alaska [North Slope Division], Point Barrow,  
[71.22°N, 156.30°W], from *Citellus barrowensis* [= *Spermophilus parryi*], 6-27-98 [27 June 1898], McEl-  
haney.  
TYPE ♂, USNM 6903.  
REMARKS.—There are two slides, one bearing a male  
labeled "type," the other a female labeled "cotype." Both  
bear the same number. Baker obviously intended the  
male to be the holotype. In the absence of additional  
material from the type series, these are designated the  
LECTOTYPE and allectotype respectively. Now  
*Oropsylla* (*Oropsylla*) *alaskensis* (Baker).
- alredi** Traub and Tipton, 1951. *Jordanopsylla* [95118].  
Journal of the Washington Academy of Sciences, 41(8):264,  
figures 1-7.  
USA, Utah, Washington County, Grafton [37.10°N,  
113.04°W], from *Peromyscus eremicus*, 17 December  
1950, D.E. Beck and D.M. Allred.  
HOLOTYPE ♀, USNM 104577.
- alpina** Baker, 1895e. *Typhlopsylla* [89513].  
Canadian Entomologist, 27(7):191.  
USA, Colorado [Clear Creek County], Georgetown,  
[39.43°N, 105.42°W], from "mountain rat" [probably  
*Neotoma* sp.], no date, L. Bruner.  
REMARKS.—There are a male and a female on one slide,  
USNM 104578, which is annotated "type" and "types of  
*Typhlopsylla alpina*." The male specimen is here  
designated the LECTOTYPE and the female the allecto-  
totype of the species. Now *Stenistomera alpina* (Baker).
- alpinus** Stark, 1957. *Thrassis* [95719].  
Journal of Parasitology, 43(3):335, plates III, IV: figures  
15-22.  
USA, Colorado [Clear Creek County], Mt. Evans, [39.35°N,  
105.39°W, 4115 m], from *Marmota* sp., 14 July 1949,  
D.H. Eecke.  
HOLOTYPE ♂, USNM 104579.  
REMARKS.—Now *Thrassis spenceri alpinus* Stark.
- alticola** Traub, 1954a. *Sigmactenus* [95409].  
Studies from the Institute for Medical Research, Federation  
of Malaya, 26(11):184, figures 1-12.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu,  
Tenompok [05.07°N, 115.57°E], 4500' [1372 m], from  
*Rattus* [= *Maxomys*] *alticola*, 2 August 1951, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on the same slide, USNM  
61806.
- altmani** Tipton and Méndez, 1961. *Pleochaetis* [96102].  
Annals of the Entomological Society of America, 54(2):262,  
figures 1-10.  
PANAMA, Chiriquí Province, Cerro Barú [08.49°N,  
82.32°W, 3048 m], from *Reithrodontomys sumichrasti*, 2  
May 1960 [C.M.] Keenan and [V.J.] Tipton.

- HOLOTYPE ♂, USNM 66654.
- REMARKS.—Allotype female, from *Oryzomys* [= *Oligoryzomys*] *fulvescens*, from Finca Martinez [near] Cerro Punta, Chiriquí province [08.53°N, 82.34°W, 2073 m], 12 February 1960, Keenan and Tipton. Now *Baculomeris altmani* (Tipton and Méndez).
- altus** Tipton and Méndez, 1966. *Ceratophyllus* (*Ceratophyllus*) [96617].
- Ectoparasites of Panama*, Wenzel and Tipton, editors, page 308, plate 66: figures 1–7.
- PANAMA, Chiriquí Province, Camino Boquete [8 km beyond Cerro Punta, (Boquete = 08.47°N, 82.25°W), 2377 m], from *Glaucidium jardinii*, 3 May 1961, [C.M.] Keenan and [V.J.] Tipton.
- HOLOTYPE ♂, USNM 104581.
- \*ambersoni** Traub and Johnson, 1952a. *Polygenis* [95205].
- Boletín de la Oficina Sanitaria Panamericana, 32:112, figures 1–4, 6.
- VENEZUELA, Estado Aragua, Campamento Rafael Rangel [10.12°N, 67.11°W], 1260 m, from *Sigmodon hispidus*, 7 August 1950, E. Schwartz.
- HOLOTYPE ♂, USNM 104582.
- REMARKS.—Allotype female on separate slide but with the same data. Considered a junior synonym of *Polygenis* (*Polygenis*) *dunni* (Jordan and Rothschild, 1922b), by Johnson, 1957b:160.
- americana** Baker, 1899. *Hystrichopsylla* [89902].
- Entomological News, 10(2):37.
- USA, Maine [Penobscot County], Orono [44.53°N, 68.43°W], from *Eutamias* [= *Clethrionomys*] *gapperi*, date not given, O.W. Knight.
- [HOLO]TYPE ♀, USNM 104583, by monotypy.
- REMARKS.—Now *Stenoponia americana* (Baker).
- americanus** Hubbard, 1950. *Monopsyllus eumolpi* [95006].
- Entomological News, 60(10):259, figure 1.
- USA, Arizona, Coconino County, Painted Desert, [–36.09°N, 111.18°W], from Desert chipmunk, *Eutamias* [= *Tamias*] *minimus*, 7 July 1945, C.A. Hubbard.
- HOLOTYPE ♂, Allotype ♀, on the same slide, USNM 104584.
- REMARKS.—Now *Eumolpianus eumolpi americanus* (Hubbard).
- anomalus** Baker, 1904. *Pulex* [90409].
- Proceedings of the United States National Museum, 27(1361):381, plate X: figures 1–6.
- USA, Colorado [Archuleta County], Arboles [37.02°N, 107.24°W], on Gray [ground] squirrel, from *Spermophilus* [sp.], 7-3-99 [3 July 1899], C.F. Baker.
- TYPE ♂, COTYPE ♀, USNM 6897.
- REMARKS.—The male is here designated the LECTOTYPE and the female the ALLOLECTOTYPE. Now *Hoplopsyllus anomalus* (Baker).
- apachinus** C. Fox, 1914. *Ceratophyllus* [91418].
- Bulletin of the Hygienic Laboratory, Washington, 97:14, figures 1–3.
- USA, New Mexico [Apache County], sine loco, from prairie dog [probably *Cynomys ludovicianus*], 18 August 1905, collector not given.
- [HOLO]TYPE ♀, USNM 18458, by monotypy.
- REMARKS.—The description of this species begins with the statement that “the specimen, a single female, has been mutilated during its collection or preservation and therefore the following description is lacking in certain details.” The author then proceeds to describe the new species on the basis of the damaged specimen. After the description, which clearly applies to the female sex, he states “... a single male specimen is contained in the collection of the United States National Museum...” and cites the data given above. There is no Apache County in New Mexico, but neither Arizona nor New Mexico were states in 1905. The locality is probably New Mexico Territory, since Apache County, Arizona, borders on New Mexico. See the account for *Foxella* (*Foxella*) *ignota ignota* (Baker, 1895b), for further information. Now *Foxella* (*Foxella*) *ignota apachina* (C. Fox).
- apsidata** Traub and Evans, 1967b. *Palaeopsylla* [96719].
- Pacific Insects, 9(4):611, figures 13–18.
- MALAYSIA, Malaya, Perak, Maxwell Hill, untraced, 4400' [1355 m], from *Crocidura* sp., 20 March 1958, [R.] Traub [and T.C. Maa].
- HOLOTYPE ♀, USNM 69711.
- apricus** Jordan, 1929a. *Ceratophyllus* (*Ceratophyllus*) *celsus* [92916].
- Novitates Zoologicae, 35(1):37, plate II: figure 24.
- CUBA, Soledad [untraced], from nest of *Petrochelidon fulva canicola* [= *Hirundo fulva*], 4 April 1925, J.[C.] Bequaert.
- [HOLO]TYPE ♂, USNM 41439, by designation by Jordan, 1929a:37.
- arachis** Jordan, 1929a. *Phalacroscopsylla* [92919].
- Novitates Zoologicae, 35(1):38, plate II: figure 27.
- USA, Arizona [Pima County], McCleary's Ranch, 30 mi. [48 km] SE Tucson [–31.59°N, 110.35°W], from *Dipodomys spectabilis*, 30 January 1921, V. Bailey.
- [HOLO]TYPE ♂, USNM 41419, by designation by Jordan, 1929a:38.
- REMARKS.—Now *Meringis arachis* (Jordan).
- arborea** Lewis, 1971d. *Rowleyella* [97132].
- Journal of Parasitology, 57(6):1350, figures 1–5.
- NEPAL, Sindu-Palchok District, Melumchi [28.03°N, 85.33°E, 2469 m], from *Dremomys lokriah*, 18 November 1969, R.M. Mitchell.
- HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71506.
- arctomys** Baker, 1904. *Ceratophyllus* [90428].
- Proceedings of the United States National Museum, 27(1361):411, plate XXII: figures 1–6.
- USA, New York [Madison County], Peterboro [43.00°N, 75.40°W], from *Arctomys* [= *Marmota*] *monax*, 7-9-1900 [9 July 1900], G.S. Miller.

- TYPE ♀, USNM 6916.  
 REMARKS.—There are two slides in the collection, both originally labeled “type.” When USNM numbers were added, the female was labeled “type” and the male was labeled “cotype.” But figure 6 of plate XXII of Baker, 1904, is of the male clasper. Since the specimens bear the same data they must be syntypes and we here designate the male as the LECTOTYPE and the female as the ALLOLECTOTYPE of this species. Now *Oropsylla (Oropsylla) arctomys* (Baker).
- arcuatus** Stark, 1957. *Thrassis* [95721].  
 Journal of Parasitology, 43(3):338, plate V: figures 29–36.  
 USA, California, Monterey County [Hunter Liggett Military Reservation, ~36.02°N, 121.12°W, 274 m], from *Dipodomys [heermanni]*, Coll. 2-25-47 [25 February 1947, SFFS, (San Francisco Field Station) personnel] 52:190.  
 HOLOTYPE ♂, Allotype ♀, on two slides, USNM 104586.  
 REMARKS.—The female is numbered 51:190. Now *Thrassis aridis arcuatus* Stark.
- aridis** Prince, 1944. *Thrassis* [94402].  
 Pan-Pacific Entomologist, 20(1):14, figures 1, 2.  
 USA, Ariz.[ona], Santa Cruz Co.[unty, 24 km NW Nogales, ~31.29°N, 111.45°W, 1052 m], from *Dipodomys merriami*, Coll. 2-22-39 [22 February 1939, SFFS, (San Francisco Field Station?) personnel], D-1387.  
 HOLOTYPE ♂, USNM 104587.  
 REMARKS.—The allotype female was taken from the same host species, but [21 km N, Tucson, ~32.26°N, 110.57°W, 762 m], Pima Co.[unty], Ariz.[ona], Coll. 2-3-39 [3 February 1939] D-1320. Now *Thrassis aridis aridis* Prince.
- arizonensis** Hubbard, 1947. *Foxella utahensis* [94703].  
*Fleas of Western North America*, page 184, figure 91a.  
 USA, Utah [Kane County], Kanab [37.03°N, 112.32°W], from Pocket gopher *Thomomys fossor* [= *talpoides*], 9 July 1945, C.A. Hubbard.  
 HOLOTYPE ♂, USNM 104585.  
 REMARKS.—Now *Foxella (Foxella) ignota arizonensis* Hubbard.
- arizonensis** Baker, 1898. *Pulex* [89822].  
 Journal of the New York Entomological Society, 6(1):55.  
 USA, Arizona [Pima County], Tucson [35.15°N, 110.57°W], from nest of Silvery mouse [= *Neotoma albigula*] in cavity of *Cereus giganteus*, 1-6-97 [6 January 1897, H.G.] Hubbard.  
 [HOLO]TYPE ♂, USNM 104588, by monotypy, as *Ceratophyllus arizonensis* Baker, 1904.  
 REMARKS.—Now *Thrassis arizonensis* (Baker).
- asetus** Traub, 1950b. *Pleochaetis equatoris* [95012].  
 Fieldiana: Zoology Memoires, 1:33, plate 17: figures 1–8.  
 USA, New Mexico [Catron County], Mogollon Mts, [~33.20°N, 108.45°W], from *Callospermophilus* [= *Spermophilus*] *lateralis* and *Microtus mexicanus*, 1 September 1933, H.S. Gentry.  
 HOLOTYPE ♂, USNM 104589.  
 REMARKS.—Now *Plusaetis asetus* (Traub).
- asio** Baker, 1904. *Ceratophyllus* [90424].  
 Proceedings of the United States National Museum, 27(1361):406.  
 USA, Massachusetts [Norfolk County], Wellesley, [42.18°N, 71.18°W], from Screech owl, *Megascops* [= *Otus*] *asio*, date not given, A.P. Morse.  
 [HOLO]TYPE ♀, USNM 6912, by monotypy.  
 REMARKS.—Now *Megabothris (Megabothris) asio asio* (Baker).
- atallahi** Lewis, 1971b. *Citellophilus* [97123].  
 Journal of Parasitology, 57(4):766, figures 12–16.  
 NEPAL, Dolpa District, D[h]orpatan [28.29°N, 83.05°E, 2712 m], from Royal's vole [= *Alticola roylei*], 8 February 1969, R.M. Mitchell.  
 HOLOTYPE ♂, USNM 71509.  
 REMARKS.—Allotype female, same data but 25 January 1969. Now *Callopsylla (Callopsylla) sparsilis atallahi* (Lewis).
- attenuata** Jameson and Sakaguti, 1954. *Rhadinopsylla (Actenophthalmus)* [95434].  
 Journal of Parasitology, 40(4):380, figures 4A,B, 5A–F.  
 JAPAN [Honshu Island], Kyoto Prefecture, Ōhara, [39.03°N, 141.23°E], from *Clethrionomys* sp. [= *rufocanus*], 7 March 1952, E.W. Jameson, Jr.  
 HOLOTYPE ♂, Allotype ♀, USNM 62231.  
 REMARKS.—Female allotype on separate slide, from *Clethrionomys* [= *Phaulomys*] *smithi*, 3 April 1952.
- audyi** Traub, 1952. *Johnsonaeapsylla* [95215].  
 Journal of the Washington Academy of Sciences, 42(9):289, figures 1–9.  
 [MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, Tenompok [06.03°N, 116.32°E], 5000 ft. [1525 m], from *Hylomys suillus*, 16 July 1951, R. Traub.  
 HOLOTYPE ♂, USNM 104590.  
 REMARKS.—Now *Cratynius (Cratynius) audyi* (Traub).
- augustsoni** Hubbard, 1949c. *Thrassis* [94927].  
 Bulletin of the Southern California Academy of Sciences, 48(2):50, plate 7.  
 USA, California, Kern County, east of Bakersfield, [35.20°N, 118.52°W], from *Citellus* [= *Ammospermophilus*] *nelsoni*, 23 March 1949, C.A. Hubbard.  
 HOLOTYPE ♂, Allotype ♀, USNM 104591.  
 REMARKS.—Although an allotype is listed, the author of the name specifically states that he did not have a female. Its data are: “California, San Benito County, 11 mi [18 km] E Llanada [Llano?], from *C. nelsoni*, 1-22-50” [22 January 1950]. The specimen was determined by G.F. Augustson and is not an allotype.
- azuereensis** Tipton and Méndez, 1966. *Kohlsia* [96618].  
*Ectoparasites of Panama*, Wenzel and Tipton, editors, page 312, plate 76: figures 1–5, plate 77: figures 1–5.  
 PANAMA, Cerro Hoya, Los Santos [17 km W Guánico

Arriba and Las Palmitas, 07.20°N, 80.30°W, 914 m], from *Peromyscus* [= *Isthmomyis*] *flavidus*, 20 February 1962, C.O. Handley.

HOLOTYPE ♂, Allotype ♀, USNM 104592.

REMARKS.—The allotype was collected on 17 February 1962.

*bamus* Traub, 1972. *Stivalius cognatus* [97226].

Bulletin of the British Museum (Natural History), Zoology, 23(9):286, figures 163–167, 170–172, 174, 176, 177.

PHILIPPINES, Mindanao, Zamboanga [del Norte], Mt. Malindang, Masawan, Mutia [–08.12°N, 123.40°E], 4500–5000' [1372–1524 m], from *Rattus rattus mindanensis* [= *Rattus tanezumii*], 29 December 1962, D.S. Rabor.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71610.

*barnesi* Stark, 1970. *Thrassis francisi* [97002].

University of California Publications in Entomology, 53:74, figures 160–167.

USA, Ida.[ho], Fremont Co.[unty], 10 mi. [16 km] NE St. Anthony [43.59°N, 111.40°W], 5000' [1524 m], from *Citellus* [= *Spermophilus*] *armatus*, 6-19-39 [19 June 1939, SFFS, (San Francisco Field Station?) personnel], D-1692.

HOLOTYPE ♂, USNM 104593.

*barrerai* Traub and Evans, 1967b. *Corrodopsylla* [96723].

Pacific Insects, 9(4):637, figures 57–61.

MEXICO, Guerrero [State], Omiltemi, 5 km SW [–17.30°N, 99.00°W], 7000' [2155 m], from *Sorex* sp., 6 April 1963, [A.D.] Stock and [J.H.] Shaw.

HOLOTYPE ♀, USNM 69703.

*batibacula* Traub, 1972. *Medwayella* [97223].

Bulletin of the British Museum (Natural History), Zoology, 23(9):250, figures 106, 109, 110, 112, 115, 116.

MALAYSIA, Borneo, Sarawak, Kuching, Bukit Stigang, Kampong Pangkalan Kuap [01.32°N, 110.20°E], from *Lariscus insignis*, 27 December 1968, Lim Boo Liat.

HOLOTYPE ♂, USNM 71607.

*becki* Tipton and Allred, 1952. *Megarhthroglossus* [95211].

Great Basin Naturalist, 11(3–4):108, figures 1–7.

USA, Utah [Utah County, near] Provo, [lower level] Buckley's Mine [Rock Canyon, 40.14°N, 111.40°W, 1554 m], from *Neotoma cinerea* nest, 24 November 1949, D.M. Allred.

TYPE ♂, USNM 104594.

REMARKS.—There is also a female "type" on a separate slide with the same data. We here designate the male as the LECTOTYPE and the female as the allolectotype of this species.

\**bertholffi* C. Fox, 1927. *Ceratophyllus* [92708].

Transactions of the American Entomological Society, 53(906):211.

USA, Alaska, Nagai Island [55.10°N, 160.00°W], from *Citellus nebulicola* [= *Spermophilus parryii*], June 1909, collector not given.

HOLOTYPE ♂, USNM 40355.

REMARKS.—There is also a female on the same slide. This is now considered a junior synonym of *Oropsylla* (*Oropsylla*) *idahoensis* (Baker, 1904), according to Jordan, 1933a:74.

*bifidatus* Smit, 1960. *Ctenophthalmus* (*Ctenophthalmus*) *bifidatus* [96038].

Tijdschrift voor Entomologie, 103(3/4):277, figures 1–3.

TURKEY, Bolu Province, Abant [Gölu, 40.51°N, 31.02°E], 4500' [1372 m], from *Microtus guentheri*, 9 August 1953, H. Hoogstraal.

HOLOTYPE ♂, USNM 104595.

REMARKS.—There is an allotype female on a separate slide with the same data but 14 August 1953.

*bisetosa* Ewing, 1925. *Adoratopsylla* (*Adoratopsylla*) [92540].

Journal of Parasitology, 12(1):44.

BRAZIL [Acre Province], Santa Maria, Rio Branco, [09.59°S, 67.49°W], from *Monodelphis brevicaudata*, 8 September 1924 [Harvard Expedition].

LECTOTYPE ♂, USNM 27886.

REMARKS.—There is also a female mounted on the same slide. It is not known to us when, where, or by whom the male was declared a lectotype, but the slide is so marked.

*bitterrootensis* Dunn, in Dunn and Parker, 1923. *Ceratophyllus* [92342].

Public Health Reports, Washington, 38(883):2771.

USA, Montana, Ravalli County, Spoon Creek, SW Darby, [46.01°N, 114.11°W], from pack rat [= *Neotoma* sp.], 16 August 1922, [L.H.] Dunn and [R.R.] Parker.

HOLOTYPE ♂, not found.

REMARKS.—This specimen was originally in the collection of the Rocky Mountain Laboratory, Hamilton, Montana. That collection was sent to the USNM during the 1970's but we have been unable to find this type. While described in a jointly authored paper with R.R. Parker, it was specifically stated that Dunn was solely responsible for the descriptions. Now *Amaradix bitterrootensis bitterrootensis* (Dunn).

*blarinae* C. Fox, 1914. *Doratopsylla* [91416].

Bulletin of the Hygienic Laboratory, Washington, 97:11, plate IV: figures 1–3.

USA, Washington, D.C. [38.55°N, 77.00°W], from *Blarina brevicauda*, no date given, G.S. Miller.

HOLOTYPE ♂, by monotypy, USNM 18455.

REMARKS.—There is also a male of *Ceratophyllus wickhami* [= *Orchopeas howardi howardi* (Baker, 1895b)] on the same slide.

*bluei* C. Fox, 1909b. *Dolichopsyllus* [90923].

Entomological News, 20(5):195, figures 1–4.

USA [California, San Francisco County], S.[an] Francisco, [37.45°N, 122.27°W], from *Putorius xanthogenes* [= *Mustela frenata*, November] 1908 [C. Fox].

LECTOTYPE ♀, USNM 13130.

REMARKS.—We are not sure when or by whom the USNM

- lectotype was designated, but Smit and Wright, 1978b:9 also designate a lectotype female in the BMNH bearing the same data. Now *Dactylopsylla bluei bluei* (C. Fox).
- bogora** Traub, 1972. *Medwayella robinsoni* [97216].  
Bulletin of the British Museum (Natural History), Zoology, 23(9):235, figures 54, 58, 62, 63.  
INDONESIA, Java, Bogor [06.34°S, 106.45°E], elev. 206 m, from *Callosciurus notatus*, 15 July 1965, J.M. Stusak.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71600.
- borealis** Ewing, 1929a. *Catallagia* [92925].  
Proceedings of the Biological Society of Washington, 42:126.  
USA, Maine [Piscataquis County], Mt. Katahdin, Basin Pond [45.55°N, 68.57°W], from *Microtus pennsylvanicus*, 7 September 1928, W.J. Hamilton, Jr.  
HOLOTYPE ♀, USNM 41633.  
REMARKS.—There is also a specimen of *Leptopsylla hesperomys catatonae* [sic] Jordan [= *Peromyscopsylla catatina* (Jordan, 1928)] on the same slide.
- borealis** Lewis, 1978. *Myodopsylla* [97816].  
Journal of Parasitology, 64(3):524, figures 1–4.  
USA, Montana, Carter County, NW [11 km N, 16 km W], Camp Crook [South Dakota, ~45.39°N, 104.04°W, 1158 m], from *Eptesicus fuscus*, 11 July 1970, R.A. Winstel.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 75437.
- bottaceps** Hubbard, 1943c. *Dactylopsylla (Foxelloides)* [94308].  
Pacific University Bulletin, 40(2):5, figure [unnumbered].  
USA, California, Del Norte County, [school yard at] Fort Dick [41.54°N, 124.10°W], from *Thomomys bottae*, 3 July 1943, C.A. Hubbard.  
HOLOTYPE ♀, USNM 57084.  
REMARKS.—Now *Spicata bottaceps* (Hubbard).
- brasilensis** Baker, 1904. *Pulex* [90407].  
Proceedings of the United States National Museum, 27(1361):379.  
BRAZIL [Sao Paulo State], Sao Paulo [23.33°S, 46.39°W], from *Mus decumanus* [= *Rattus norvegicus*], no date given, Dr. [A.] Lutz.  
TYPE ♀, USNM 6895.  
REMARKS.—There is one slide labeled “type.” Another bears a female with essentially the same data, but labeled “cotype.” In both cases there is a circle drawn around the word and “error” printed nearby. We here designate the female specimen labeled “type” as the LECTOTYPE and the specimen labeled “cotype” the allolectotype. Now *Xenopsylla brasiliensis* (Baker).
- \*brennani** Augustson, 1944a. *Thrassis* [94404].  
Journal of Parasitology, 30(4):239, figures 1–3.  
USA, Texas, Bexar County, Fort Sam Houston [29.25°N, 98.30°W], from *Citellus* [= *Spermophilus*] *tridecemlineatus*, Apr. 8, 1943 [8 April 1943, J.M. Brennan].  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 56958.  
REMARKS.—Now considered a junior synonym of *Thrassis fatus* (Jordan, 1925), according to Eads, 1950b:50.
- bruneri** Baker, 1895c. *Pulex* [89508].  
Canadian Entomologist, 27(5):132.  
USA, Iowa [Story County], Ames [42.02°N, 93.33°W], on *Spermophilus 13-lineatus* [= *tridecemlineatus*] 4-22-86 [22 April 1886], collector not given.  
SYNTYPE ♂, USNM 10932, as *Ceratophyllus bruneri*.  
REMARKS.—There are four additional specimens on three slides, all labeled “type.” One female from Fort Collins, Colorado, from *Spermophilus 13-lineatus*, 6-30-90 [30 June 1890], C.F. B[aker]; two females from Lincoln, Nebraska, on *Spermophilus 13-lineatus*, Apr.[il] 17, 1890, collected by L. Bruner; and one male from Brookings, South Dakota, collected by J.M. Aldrich. We designate the male syntype from Ames, Iowa, as the LECTOTYPE and the female from Fort Collins the allolectotype. The remaining three syntypes are paralectotypes. Now *Oropsylla (Opisocrostitis) bruneri* (Baker).
- bullisi** Augustson, 1944b. *Pleochaetoides* [94415].  
Journal of Parasitology, 30(6):366, figures 1–4.  
USA, Texas, Bexar County, Camp Bullis [~29.25°N, 98.30°W], from *Peromyscus pectoralis*, 1 June 1944, [G.F.] Augustson coll.  
HOLOTYPE ♂, USNM 57189.  
REMARKS.—Now *Jellisonia bullisi* (Augustson).
- caducus** Jordan, 1930. *Ceratophyllus gladiolus* [93026].  
Novitates Zoologicae, 35(3):268, figure 2.  
USA, Utah [Uintah County], Vernal [40.26°N, 109.32°W], from *Ammospermophilus leucurus*, 20 November 1927, A.W. Moore.  
[HOLO]TYPE ♂, by designation, USNM 43061.  
REMARKS.—Now *Thrassis bacchi caducus* (Jordan).
- calcarata** Traub, 1972. *Medwayella* [97222].  
Bulletin of the British Museum (Natural History), Zoology, 23(9):247, figures 103–105, 107, 108, 111, 113.  
MALAYSIA, Perak, 13 km W Ipoh, Kledan Soiong Forest Reserve [~04.36°N, 100.55°E], 1300' [396 m], from *Lariscus insignis*, 1 October 1958, R. Traub.  
HOLOTYPE ♂, USNM 71606.  
REMARKS.—Allotype female from Perak, Maxwell Hill, untraced, 3000' [915 m], 25 June 1958.
- \*californicus** Baker, 1904. *Ceratophyllus* [90416].  
Proceedings of the United States National Museum, 27(1361):395, plate XVII: figures 5–8.  
USA, California [Santa Clara County], Mountain View, [~37.20°N, 121.55°W], from field mouse, June 1900, [E.] Ehrhorn.  
[HOLO]TYPE ♀, USNM 6904, by monotypy.  
REMARKS.—A junior synonym of *Nosopsyllus (Nosopsyllus) fasciatus* (Bosc, 1800), according to Jordan, 1929a:33.

- calisheri** Eads and Campos, 1979. *Catallagia* [97945].  
Journal of Medical Entomology, 16(4):191, figures 1–6.  
USA, Col.[orado], Larimer Co.[unty, Rocky Mountain National Park, Trail Ridge Road, ~40.22°N, 105.48°W, 3500 m], from *Peromyscus maniculatus*, 26 October 1974, R.B. Eads and E.G. Campos.  
HOLOTYPE ♂, Allotype ♀, USNM 104596.
- campestris** Prince, 1944. *Thrassis* [94403].  
Pan-Pacific Entomologist, 20(1):15, figures 3, 4.  
USA, Neb.[aska], Hooker Co.[unty, 11.2 km W Mullen, ~42.03°N, 101.10°W], from *Dipodomys ordii*, Coll. 10-15-42 [15 October 1942, SFFS, (San Francisco Field Station?) personnel].  
HOLOTYPE ♂, USNM 104597.  
REMARKS.—The allotype female was collected on the same host species but [10 km N, Ashby, ~42.03°N, 101.56°W], Grant Co.[unty], Neb.[aska], 10-16-42 [16 October 1942]. Originally described as *Thrassis aridis campestris* Prince.
- \***canadensis** Baker, 1904. *Ceratophyllus* [90425].  
Proceedings of the United States National Museum, 27(1361):407, plate XX: figures 1–4.  
CANADA [Ontario], Ottawa [45.25°N, 75.43°W], host [*Tamias* suggested] and date unknown, J. Fletcher.  
[HOLO]TYPE ♀, USNM 6913, by monotypy.  
REMARKS.—According to Jordan, 1929a:33, this is a junior synonym of *Nosopsyllus* (*Nosopsyllus*) *fasciatus* (Bosc, 1800).
- \***canadensis** Hubbard, 1950. *Monopsyllus eumolpi* [95005].  
Entomological News, 60(10):259, figure 1.  
CANADA, Ontario, Kenora District, Malachi [49.56°N, 94.58°W], from Chipmunk, *Eutamias* [= *Tamias minimus*], 19 July 1947, W. Watson.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104598.  
REMARKS.—This is a junior synonym of *Monopsyllus* [= *Eumolpianus*] *eumolpi eumolpi* (Rothschild, 1905), according to Johnson, 1961:42.
- \***carlsbadensis** Ewing, 1940. *Aptilopsylla* [94029].  
Proceedings of the Biological Society of Washington, 53:36.  
USA, New Mexico [Eddy County], Carlsbad [32.25°N, 104.14°W], from bat guano, 14 June 1938, K. Dearolf.  
HOLOTYPE ♀, by designation, USNM 54001.  
REMARKS.—Both the genus and the species are junior synonyms of *Sternopsylla distincta texana* (C. Fox, 1914), according to Hopkins, 1952:365.
- carteri** C. Fox, 1927. *Carteretta* [92706].  
Transactions of the American Entomological Society, 53(906):209.  
USA, California [Los Angeles County], Los Angeles [34.00°N, 118.15°W], from *Neotoma fuscipes*, 1925, collector not given.  
HOLOTYPE ♂, USNM 40353.  
REMARKS.—An allotype female was designated from Hastings [Natural History] Reservation [Monterey County, ~36.24°N, 121.37], from *Peromyscus maniculatus*, 28 November 1938, R. Holdenried. This specimen has no type status.
- caucensis** Méndez, 1977. *Polygenis* [97728].  
Questiones Entomologicae, 13(2):137, figures 21, 22.  
COLOMBIA, Departamento del Valle, Alto Anchicayá, [03.39°N, 76.56°W], 650 m, from *Oryzomys* [= *Melanomys*] *caliginosus*, 11 February 1974, E. Méndez and L. Velásquez.  
HOLOTYPE ♂, Allotype ♀, USNM 104262.  
REMARKS.—Now *Polygenis* (*Polygenis*) *caucensis* Méndez.
- cavernicola** Traub, 1957. *Epitedia* [95771].  
Studies from the Institute for Medical Research, Federation of Malaya, 28(17):41, figures 12–20.  
USA, Virginia [Alleghany County], McElwee Cave, Clifton Forge [32.49°N, 79.50°W], from *Neotoma magister* [= *floridana*], 8 October 1950, V.J. Tipton.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 64077.
- cavernicolus** Méndez and Haas, 1972. *Megarhroglossus* [97207].  
Journal of Medical Entomology, 9(4):285, figures 1–6.  
USA, New Mexico, Sandoval County, [E edge of South Mt.] in cave, W edge of Valle Grande, Jemez Mts. [~35.37°N, 106.44°W], 8650 ft. [2638 m], from *Neotoma cinerea* nest, 18 September 1970, G.E. Haas, R.P. Martin, and R.W. Hannemann.  
HOLOTYPE ♂, USNM 73331.  
REMARKS.—Allotype female on separate slide bearing the same data.
- celata** Traub, 1965. *Ophthalmopsylla* (*Eremedosa*) [96508].  
Journal of Medical Entomology, 2(2):125, figures 1–13.  
PAKISTAN [Kashmir], Gilgit Agency, Kohighizar, Phandar, (Mt. Desert), untraced, elev. 10,500' [3200 m], from *Cricetulus* sp., 9 September 1963, R. Traub.  
HOLOTYPE ♂, USNM 69709.  
REMARKS.—Allotype female on separate slide, same data but 9,700' [2957 m], 30 August 1964.
- celebensis** Ewing, 1924. *Pygiopsylla* [92403].  
Parasitology, 16(3):352, plate XIV: figure 6.  
INDONESIA, Celebes [= Sulawesi], Pulo Sembeh [= Pulo Lembeh = Lembeh Island, 01.25°N, 125.17°E], from *Sciurus evidens* [= *Prosciurillus murinus*], 13 January 1916, collector not given.  
HOLOTYPE ♂, by designation, USNM 23771.  
REMARKS.—Now *Farhangia celebensis* (Ewing).
- celebensis** Lewis and Jones, 1985. *Sigmactenus* [98505].  
Journal of Medical Entomology, 22(2):204, figures 1–4.  
INDONESIA, Sulawesi Selatan, Biroro, 05.15°S, 119.51°E, from *Maxomys musschenbroeki*, 30 January 1969, G.S. Jones.  
HOLOTYPE ♀, USNM 101391.
- chapini** Jordan, 1929a. *Nycteridopsylla* [92921].  
Novitates Zoologicae, 35(1):39, plate II: figures 30, 31.

- USA, Maryland [Montgomery County], Glen Echo, [38.59°N, 77.09°W], from *Eptesicus fuscus*, 31 March 1916, R.C. Shannon.  
[HOLO]TYPE ♂, by designation, USNM 41423.
- \**charlestonensis* Hubbard, 1950. *Monopsyllus eumolpi* [95003].  
Entomological News, 60(10):254, figure 1.  
USA, Nevada, Clark County [base of Charleston Peak], Kyle Canyon [40 km NW Las Vegas, ~36.10°N, 115.10°W], from *Eutamias* [= *Tamias*] *palmeri*, 25 June 1945, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104599.  
REMARKS.—A junior synonym of *Eumolpianus cyrturus* (Jordan, 1929a), according to Johnson, 1961:50.
- chilensis* Lewis, 1976. *Ectinorus (Ectinorus)* [97627].  
Journal of Parasitology, 62(6):1003, figures 1–4.  
CHILE, Santiago Province, 10 km W Tiltill [33.05°S, 70.56°W], from *Abracomia bennetti*, 4 November 1974, R.E. Martin.  
HOLOTYPE ♂, USNM 73734.
- ciliatus* Baker, 1904. *Ceratophyllus* [90418].  
Proceedings of the United States National Museum, 27(1361):397, plate XVI: figures 1–6.  
USA, California, Santa Clara Co. [unty, Mountain View, 37.33°N, 122.22°W], from chipmunk, 6 July 1900, [E.] Ehrhorn.  
LECTOTYPE ♂, USNM 6906, designated by Jordan, 1929a:34.  
REMARKS.—There is another slide bearing a female with the same data and number. The label "cotype" has been marked out and replaced with "paratype." More correctly this specimen is a paralectotype. Both Baker, 1904:397, and Jordan, 1929a:34, listed the type locality as Mountain View, and the latter placed this in Santa Cruz County. Johnson, 1961:24, corrected this to Santa Clara County. Although the true identity of the type host is not known for certain, it is likely a species of *Tamias*. Now *Ceratophyllus (Amonopsyllus) ciliatus ciliatus* Baker.
- \**ciulli* Stewart, 1928. *Ceratophyllus* [92820].  
Canadian Entomologist, 60(6):150, plate 13: figures 3, 4.  
USA, Colorado, Weld County, sine loco, from *Citellus* [= *Spermophilus tridecemlineatus*], 20 April 1926, S.C. McCampbell, thru F.C. Bishopp, Colorado. Acc. #4208.  
REMARKS.—The slide is present in the collection as USNM 104600 and bears a male and female. *Ceratophyllus* has been crossed out and first replaced with *Thrassis petiolatus* (Baker, 1904), and later by [*T.*] *fotus* by P.T. Johnson. Although the author indicated that the holotype was in the USNM, he did not indicate its sex. We here designate the male as the LECTOTYPE and the female as the allolectotype. This is a junior synonym of *Thrassis fotus* (Jordan, 1925), according to Stewart, 1930a:152.
- clantoni* Hubbard, 1949c. *Foxella ignota* [94925].  
Bulletin of the Southern California Academy of Sciences, 48(2):48, plate 6.  
USA, Washington, Lincoln County, 4 mi. [6 km] E Odessa [~47.19°N, 118.40°W], from "Norwegian Rat," *Rattus norvegicus*, 7 June 1949, C.A. Hubbard.  
HOLOTYPE ♀, USNM 104601.  
REMARKS.—There is an additional male from the same locality, but from *Thomomys* sp., collected on 9 June 1949. This is certainly a synonym of some other taxon, since the female is not the diagnostic sex in this genus.
- clantoni* Hubbard, 1949a. *Megabothris* [94920].  
Entomological News, 60(6):141, figure unnumbered.  
USA, Washington, Lincoln County, Davenport [47.38°N, 118.09°W], from Sagebrush vole, *Lagurus* [= *Lemmiscus*] *curtatus*, 15 May 1949, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104602.  
REMARKS.—Now *Megabothris (Amegabothris) clantoni* Hubbard.
- clavata* Good, 1942a. *Carteretta carteri* [94205].  
Annals of the Entomological Society of America, 35(1):110–113, figure 1.  
USA, Nevada, Clark County, 23 mi [37 km] NW Las Vegas, [36.10°N, 115.10°W], 2400 ft [732 m] from *Peromyscus* sp. (*?truei*), 16 April 1938 [F.J. Gonderman].  
HOLOTYPE ♂, USNM 104869.  
REMARKS.—Allotype female from 20 mi [32 km] NW Las Vegas, Clark County, Nevada, from *Peromyscus eremicus*, 9 April 1938 [F.J. Gonderman]. Now *Carteretta clavata* Good.
- coahuilensis* Eads, 1956. *Ceratophyllus* [95602].  
Journal of Parasitology, 42(1):73, plate I: figures A–F.  
USA, Texas, Uvalde County, sine loco, from *Petrochelidon* [= *Hirundo*] *fulva pallida* nests, 30 March 1955, R.B. Eads.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 62924.  
REMARKS.—Now *Ceratophyllus (Ceratophyllus) coahuilensis* Eads.
- \**cochisei* Hubbard, 1954. *Meringis* [95424].  
Entomological News, 65(7):175.  
USA, Arizona [Pima County], Baboquivari Mts., [~31.47°N, 111.36°W], from Hog-nosed skunk, *Conepatus mesoleucus*, 16 January 1931, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104603.  
REMARKS.—This slide also bears an additional female. The name is a junior synonym of *Meringis arachis* (Jordan, 1929a), according to Eads et al., 1987:467.
- collinsi* Kohls, 1937. *Myodopsylla* [43704].  
Journal of Parasitology, 23(4):300, figures 1, 2.  
USA, Arizona, Santa Cruz County [Madera Canyon], Santa Rita Mts. [~31.45°N, 110.48°W], from "bat," 9 May 1933, G.M. Kohls.  
HOLOTYPE ♂, Allotype ♀, USNM 104604.
- colombianus* Méndez, 1968. *Scolopsyllus* [96815].  
Journal of Medical Entomology, 5(3):405, figures 1–14.  
COLOMBIA, Departamento del Valle, Municipio de Cali, Quebrada Honda, near Pichindé [03.24°N, 76.30°W],



- ~1800 m, from *Oryzomys* [= *Melanomys*] *caliginosus*, 4 September 1965, H. Trapido.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 69813.
- coloradensis** Baker, 1895b. *Pulex* [89505].  
Canadian Entomologist, 27(4):111.  
USA, Colorado [Clear Creek County], Georgetown, [39.43°N, 105.42°W], from Western little gray squirrel, Fremont's chickaree [= *Tamiasciurus hudsonicus*], date not given, L. Bruner.  
[HOLO]TYPE, ♂, USNM 104605, by monotypy.  
REMARKS.—Listed as *Ceratophyllus coloradensis* Baker, in Baker, 1904:417, 441, 460, and Baker, 1905:134. Now *Tarsopsylla octodecimentata coloradensis* (Baker).
- comis** Jordan, 1929a. *Dactylopsylla* [92918].  
Novitates Zoologicae, 35(1):38, plate II: figure 26.  
CANADA, British Columbia, Okanagan Landing, [50.12°N, 119.22°W], from *Thomomys fuscus* [= *talpoides*], 2 May 1915, J.A. Munro.  
HOLOTYPE ♀, by monotypy, BMNH.  
REMARKS.—The male of this species was described by Hubbard, 1943c:5, with the following data: USA, Oregon, Lane County, summit [of] McKenzie Pass, Frog Camp, from Pocket Gopher, *Thomomys monticola*, 22 July 1938, C.A. Hubbard, USNM 57086. Hubbard erroneously referred to the male (there is also a female on the slide) as the allotype, when in fact it only provides the description of the male sex and has no type status of its own. Now *Spicata comis comis* (Jordan).
- consimilis** Stark, 1957. *Thrassis bacchi* [95720].  
Journal of Parasitology, 43(3):336, plate IV: figures 23–28.  
USA, Ariz.[ona], Navajo Co.[unty], 37 km SW Holbrook, ~34.41°N, 110.28°W, 1798 m], from *Citellus* [= *Spermophilus*] *spilosoma*, Coll. 5-10-39 [10 May 1939, SFFS, (San Francisco Field Station?) personnel], B-1876.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104606.
- convexus** Segerman, 1973. *Lagaropsylla* [97304].  
Novos Taxa Entomológicos, 102:3, figures 1–7.  
GHANA, Ashanti Region, Ahiriso, untraced, from *Tadarida* [= *Mops*] *thersites*, 26 January 1968 [H.W. Setzer et al.].  
HOLOTYPE ♂, USNM 72475  
REMARKS.—The slide bears a male and a female, but only the male is designated a type. The female is not designated the allotype.
- cora** Traub, 1950b. *Kohlsia* [95020].  
Fieldiana: Zoology Memoires, 1:54, plate 33: figures 1–4, 6, 7.  
EL SALVADOR, Morazan Department [~13.48°N, 88.06°W], from *Peromyscus numip*. [?nudipes = *mexicanus*], 29 December 1941, M. Hildebrand.  
HOLOTYPE ♂, USNM 104607.
- costai** Lewis, 1970b. *Ctenophthalmus* (*Medioctenophthalmus*) [97009].  
Journal of the Kansas Entomological Society, 43(2):188, figures 9–14, 18, 19.  
ISRAEL, Mt. Hermon [Jebel esh Sheikh, ~33.24°N, 35.50°E], 1800 m, from *Spalax* [= *Nannospalax*] *ehrenbergi*, nest, 4 May 1968, M. Costa.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71002.
- cryptica** Tipton and Machado-Allison, 1972. *Hormopsylla* [97230].  
Brigham Young University Science Bulletin, Biological Series, 17(6):87, figures 72–74.  
VENEZUELA, T.F. Amazonas, 84 km SSE Esmeralda, near Boca Mavaca [02.30°N, 65.11°W], 185 m, from *Eptesicus brasiliensis*, 13 February 1966, Tuttle team.  
HOLOTYPE ♂, USNM 72537.
- crypticus** Hopkins and Traub, 1955. *Cratynius* [95515].  
Transactions of the Royal Entomological Society of London, 107:254, figures 1–9, 11.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, Tenompok [06.03°N, 116.32°E], 4500' [1372 m] from *Hylomys suillus*, 12 August 1953, R. Traub.  
HOLOTYPE ♂, USNM 62478.  
REMARKS.—Allotype female, with same data but collected on 20 August 1953. Now *Cratynius* (*Cratynius*) *crypticus* Hopkins and Traub.
- cryptotis** Traub and Barrera, 1966. *Ctenophthalmus* (*Alloctenus*) [96614].  
Journal of Medical Entomology, 3(2):128, figures 1–3, 5, 8–11, 13, 14, 17–22.  
MEXICO, Mexico State, Lagunas de Zempoala, near Ojotongo, untraced, 9100 ft. [2775 m], from *Cryptotis* sp., 22 March 1963, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69704.
- cummingsi** C. Fox, 1926. *Phalacropsylla* [92614].  
Pan-Pacific Entomologist, 2(4):182, figures 1, 2.  
USA, California [Los Angeles County], Los Angeles, [34.00°N, 118.15°W], from *Dipodomys agilis*, 1925, collector not given.  
[HOLO]TYPE ♂, by monotypy, USNM 28918.  
REMARKS.—Now *Meringis cummingsi* (C. Fox).
- cuneata** Johnson and Traub, 1954. *Peromyscopsylla hamifer* [95438].  
Smithsonian Miscellaneous Collections, 123(4):49, figures 124–131.  
KOREA, Chipori, untraced, from *Apodemus agrarius*, 16 October 1952, C.H.F.F.U. [= Commission on Hemorrhagic Fever Field Unit]  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104608.
- cynomuris** Jellison, 1939. *Opisocrostitis tuberculatus* [93909].  
Public Health Reports, Washington, 54(20):843, figure [unnumbered].  
USA, Montana [Broadwater County], Jefferson Canyon, sine loco, from Prairie dog [= *Cynomys ludovicianus*], 22 March 1934, W.L. J.[ellison].  
HOLOTYPE ♀, USNM 104609.

- REMARKS.—Allotype male on separate slide. Now *Oropsylla (Opisocrostis) tuberculata cynomuris* (Jellison).  
**declivus** Traub, 1963b. *Nosopsyllus (Nosopsyllus) londiniensis* [96308].  
 Proceedings of the Entomological Society of Washington, 65(2):90, figures 13, 14, 17.  
 EGYPT, Giza Province, Imbaba, Ausim [30.08°N, 31.07°E], from *Arvicanthis niloticus*, 28 February 1953, H. Hoogstraal.  
 HOLOTYPE ♂, Allotype ♀, on same slide, USNM 66657.
- delpontei** Méndez, 1977. *Polygenis* [97729].  
 Quaestiones Entomologicae, 13(2):138, figures 23–25.  
 COLOMBIA, Departamento del Valle, Municipio de Cali, Quebrada Honda, near Pichindé [03.24°N, 76.30°W], 1800 m, from *Oryzomys* [= *Melanomys*] *caliginosus*, 7 October 1965, H. Trapido.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104261.  
 REMARKS.—Now *Polygenis (Polygenis) delpontei* Méndez.
- dentatus** Baker, 1904. *Ceratophyllus* [90412].  
 Proceedings of the United States National Museum, 27(1361):390.  
 USA, Idaho [Latah County], Moscow [46.44°N, 117.00°W], from *Lynx can[adensis]*, date not given, [J.M.] Aldrich.  
 [HOLO]TYPE ♂, USNM 6900, by monotypy.  
 REMARKS.—Now *Odontopsyllus dentatus* (Baker).
- deuterus** Jordan, 1937a. *Callistopsyllus* [93708].  
 Novitates Zoologicae, 40(2):266, figure 49.  
 USA, California [San Bernardino County], Big Bear Lake, [34.15°N, 116.58°W], from Deer mouse [*Peromyscus* sp.], 5 May 1936 [G.M. Kohls].  
 [HOLO]TYPE ♀, by monotypy, USNM 104610.  
 REMARKS.—Now *Callistopsyllus terinus deuterus* Jordan.
- dieteri** C. Fox, 1929. *Ceratophyllus nepos* [92928].  
 Entomological News, 40(7):218.  
 USA, California, L[os] A[ngeles] Co.[unty], sine loco, from *Lynx ruffus* [*recte rufus*], 1926, collector not given.  
 [HOLO]TYPE ♂, USNM 41820.  
 REMARKS.—“Holotype” is penciled in on male slide and “allotype” on the female slide. Now *Orchopeas dieteri* (C. Fox).
- digitatus** Lewis, 1974a. *Paradoxopsyllus* [97409].  
 Journal of Medical Entomology, 11(1):48, figures 6–10.  
 NEPAL, Dolpa District, D[h]orpatan [28.29°N, 83.05°E, 2730 m], from *Rattus nitidus*, 25 January 1969, R.M. Mitchell.  
 HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72540.
- digitenua** Prince and Stark, 1951. *Dactylopsylla* [95121].  
 Pan-Pacific Entomologist, 27(3):134, figures 16–19.  
 USA, Tex.[as], Motley Co.[unty], 10 mi. [16 km] W Matador [–34.01°N, 100.55°W, 732 m], from *Onychomys leucogaster*, 3 May 1950 [F. Terry and R. Raikko].  
 HOLOTYPE ♂, USNM 104611.
- dipodomys** Kohls, 1938. *Meringis* [93808].  
 Public Health Reports, Washington, 53(28):1219, figures 6, 7.  
 USA, California, Imperial County, sine loco, from *Dipodomys* sp., December 1935, collector not given.  
 HOLOTYPE ♂, Allotype ♀, USNM 104612.  
 REMARKS.—Allotype female with same data but collected by C.R. Eskey.
- disparalis** Eads, 1979. *Meringis* [97907].  
 Great Basin Naturalist, 38(4):447, figures 1–5.  
 USA, New Mexico, Doña Ana County, sine loco, from *Dipodomys merriami*, 13 December 1951, collector not given.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 76054.  
 REMARKS.—Allotype collected on 12 December 1951.
- dissimilis** Jordan, 1938. *Malariaeus penicilliger* [93820].  
 Novitates Zoologicae, 41(2):119, figures 65, 66.  
 USA, Alaska, Rapids [63.30°N, 145.52°W], from *Eutomys* [= *Clethrionomys*] sp., 13 July 1937, collector not given.  
 LECTOTYPE ♂, and allolectotype ♀, USNM 104613, here designated.  
 REMARKS.—No holotype was designated in the original description. The slide with the male is marked “type” and that bearing the female is marked “allotype.” Labeling attributed to Jellison, 1938. Now *Amalaraeus dissimilis dissimilis* (Jordan).
- divisus** Baker, 1898. *Pulex* [89820].  
 Journal of the New York Entomological Society, 6(1):54.  
 USA, Colorado [Clear Creek County], Georgetown, [39.43°N, 105.42°W], from Fremont’s Chickaree [= *Tamiasciurus hudsonicus*], date not given, L. Bruner.  
 TYPE, ♀, USNM 104614.  
 REMARKS.—Originally named *Pulex longispinus* by Baker (1895c:131–132) based on a series of specimens. This female is actually a syntype, which we here designate the LECTOTYPE. Now *Megarthroglossus divisus* (Baker).
- dobbsi** Hubbard, 1940b. *Malariaeus* [94051].  
 Pacific University Bulletin, 37(6):3, figure unnumbered.  
 USA, Oregon [Tillamook County], Tillamook [45.28°N, 123.50°W], from Oregon creeping meadow mouse, *Microtus oregoni*, 30 August 1939, C.A. Hubbard.  
 HOLOTYPE ♂, Allotype ♀, on same slide, USNM 55131.  
 REMARKS.—Now *Amalaraeus dobbsi* (Hubbard).
- dryadosa** Traub, 1972. *Medwayella* [97212].  
 Bulletin of the British Museum (Natural History), Zoology, 23(9):215, figures 4–16, 18–20, 22, 24–27, 29–31, 42, 43.  
 MALAYSIA, Selangor, Gombak Forest Reserve, 26 km °N, K[uala] L[umpur], –03.24°N, 101.42°E], 300' [91 m], from *Rhinosciurus laticaudatus*, 22 August 1956, R. Traub.  
 HOLOTYPE ♂, USNM 71598.  
 REMARKS.—Allotype female on separate slide, from Ampang Reservoir, Ampang Forest Reserve, 1 May 1958.

- dubia** Mardon, 1976. *Papuapsylla* [97617].  
Australian Journal of Zoology, Supplementary Series, 45:18, figures 11, 33.  
[PAPUA] NEW GUINEA, Papua Central District, Guari, Smith's Gap [-07.40°S, 147.05°E], ±2500 m, from *Rattus* sp., 4 August 1968, A.B. Mirza.  
HOLOTYPE ♂, USNM 103879.
- \*dugesii** Baker, 1899. *Pulex irritans* var. [89901].  
Entomological News, 10(2):37.  
MEXICO [Guanajuato State], Guanajuato [21.00°N, 101.16°W], from *Spermophilus macrourus* [= *variegatus*], date not given, Dr. A. Dugès.  
TYPE ♂, USNM 104615.  
REMARKS.—There are 2 slides in the collection. One, a female, is in good condition. On the back of the slide, P.T. Johnson has penciled "this may be the type of *dugesii*." The other, a male, has the body in pieces. Strictly for nomenclatural purposes we designate the female syntype the LECTOTYPE of this species. A junior synonym of *Pulex (Pulex) simulans* Baker, 1895a, according to Smit, 1958b:524.
- dunni** Kohls, 1942. *Ptilopsylla* [94228].  
Journal of Parasitology, 28(5):361, 1 figure.  
[PANAMA, Panamá Province], Panama City [08.58°N, 79.32°W], from *Molossus coibensis* [= *molossus*], 6 December 1933, L.H. Dunn.  
HOLOTYPE ♂, USNM 104616.  
REMARKS.—Now *Ptilopsylla leptina dunni* Kohls.
- eatoni** Hubbard, 1954. *Oropsylla arctomys* [95419].  
Entomological News, 65(7):173.  
USA, Washington [Jefferson County], Olympic National Park [-47.49°N, 123.42°W], from *Marmota olympus*, 12 August 1951, C.A. Hubbard.  
HOLOTYPE ♂, allotype ♀, on same slide, USNM 104617.  
REMARKS.—Also labeled "Lectotype = ♂." Now *Oropsylla (Oropsylla) eatoni* Hubbard.
- ebrighti** C. Fox, 1926. *Leptopsylla* [92615].  
Pan-Pacific Entomologist, 2(4):182, figures 3, 4, 7.  
USA, California [Los Angeles County], Los Angeles, [34.00°N, 118.15°W], from *Neotoma fus[c]ipes*, July 1925, collector not given.  
LECTOTYPE ♂, USNM 28919.  
REMARKS.—There is also a female on the slide. We do not know where, when, or by whom this lectotype was designated. Johnson and Traub (1954:26) list a holotype male and allotype female under USNM 28919. Now *Peromyscopsylla ebrighti* (C. Fox).
- elbeli** Traub, 1954b. *Araeopsylla* [95431].  
Proceedings of the Entomological Society of Washington, 56(4):168, figures 8–10, 12, 14, 21, 23–25.  
THAILAND, Kanchanaburi, Tamoung Bantum [14.02°N, 99.32°E], from bats [= *Taphozous melanopogon*], 5 April 1952, R.E. Elbel.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104618.
- elutus** Johnson, 1957b. *Tetrapsyllus* [95740].  
Memoirs of the Entomological Society of Washington, 5:152, plate 82: figure 3, plate 83: figures 1–4.  
PERU, Puno Department, Pampa de Capazo, 123 km S, Ilave [17.11°S, 69.46°W], 14,300 ft. [4362 m], from *Akodon berlepschii* [= *albiventer*], 2 February 1952, O.P. Pearson.  
HOLOTYPE ♂, USNM 63369.  
REMARKS.—Now *Tetrapsyllus (Phylliver) elutus* Johnson.
- enoplus** Rothschild, 1909. *Ceratophyllus* [90907].  
Novitates Zoologicae, 16(1):53, plate VIII: figure 6.  
USA, California, Kings County, Kings River [-36.30°N, 120.25°W], from *Sciurus griseus*, 25 July 1896, collector not given.  
HOLOTYPE ♂, by monotypy, BMNH.  
REMARKS.—There is a female in the collection labeled allotype by Jellison, 1938, but not given a number, bearing the following data: USA, California, Riverside County, from *Sciurus griseus*, September 1936, [C.R.] Eskey. This specimen has no type status. Now *Opisodasys (Sciuropsylla) enoplus* (Rothschild).
- erana** Traub, 1950b. *Kohlsia graphis* [95017].  
Fieldiana: Zoology Memoires, 1:49, plate 29: figures 1–5, plate 30: figures 1–4.  
EL SALVADOR, Santa Ana Department, sine loco, from *Peromyscus* sp., 23 April 1942, M. Hildebrand.  
HOLOTYPE ♂, USNM 104619.  
REMARKS.—Allotype female from same locality, but from *Sciurus deppei*, 22 April 1942, M. Hildebrand and J.T. Marshall.
- eremicus** Baker, 1904. *Ceratophyllus* [90432].  
Proceedings of the United States National Museum, 27(1361):388, 417.  
USA, Arizona [Pima County], foothills of the Santa Rita Mts. [-31.40°N, 110.40°W], from *Peromyscus eremicus* nest, 10 January 1897 [H.G. Hubbard].  
TYPE ♀, USNM 6920.  
REMARKS.—The description was based on two females, one of which is here designated the LECTOTYPE. Now *Malariaeus eremicus* (Baker).
- essarsi** Mardon, 1976. *Papuapsylla* [97623].  
Australian Journal of Zoology, Supplementary Series, 45:29, figures 18, 40, 58, 69, 97, 98.  
[PAPUA] NEW GUINEA, N.E. Morobe District, 19 km from Edie Creek, Bulldog Road [-07.30°S, 146.35°E], ±2400' [732 m], from *Rattus* sp., 17 June 1968, A.B. Mirza.  
HOLOTYPE ♂, USNM 103880.
- euneomys** Lewis in Lewis and Spotorno, 1984. *Agastopsylla nylota* [98405].  
Journal of Medical Entomology, 21(4):392, figures 1–4.  
CHILE [Santiago Province], Farellones, 32.21°S, 70.20°W, from *Euneomys noei* [= *mordax*], 12 March 1976, A. Spotorno.  
HOLOTYPE ♂, USNM 101124.

- ewingi** I. Fox, 1940a. *Amphipsylla* [94018].  
 Proceedings of the Entomological Society of Washington, 42(3):64, plate 9: figure 1.  
 USA, Alaska, Golovin [64.32°N, 163.00°W], from Alaska short-tailed mouse [*Microtus* sp.], 7 May 1931, E.C. Cushing.  
 HOLOTYPE ♂, USNM 53585.  
 REMARKS.—Now *Amphipsylla marikovskii ewingi* I. Fox. There is a slide attributed to this species under *Monopsyllus ewingi* [I.] Fox, 1940, with the following data: USA, Massachusetts [Dukes County], Edgartown, [41.24°N, 70.31°W], from *Microtus pennsylvanicus*, 14 June 1936, C.N. Smith, HOLOTYPE ♂, Allotype ♀, USNM 52898. ♂ Holotype and ♀ allotype have been crossed out, and penciled underneath is *Megabothris asio* B. There was only one *ewingi* described in 1940 and it is properly attributed to the genus *Amphipsylla*. *Monopsyllus ewingi* is a nomen nudum, and has no nomenclatural status. These specimens are not types of any kind.
- exilis** Jordan, 1937a. *Megabothris* [93706].  
 Novitates Zoologicae, 40(2):264, figure 46.  
 USA, Montana [Powder River County], Powderville, [45.43°N, 105.07°W], from Grasshopper mouse [*Onychomys leucogaster*], 1916, R.R. P[arker].  
 [HOLO]TYPE ♂, USNM 104620.  
 REMARKS.—No type was specifically designated but Johnson (1961:17) refers to the holotype male in the USNM collection. Now *Pleochaetis exilis* (Jordan).
- exoticus** Lewis and Jones, 1985. *Stivalius* [98507].  
 Journal of Medical Entomology, 22(2):208, figures 9–12.  
 [INDONESIA], Sulawesi, Selatan, Biroro, 05.15°S, 119.51°E, from *Rattus exulans*, 30 January 1969, G.S. Jones.  
 HOLOTYPE ♂, USNM 101393.
- exsula** Lewis, 1970a. *Mitchella* [97006].  
 Journal of Parasitology, 56(1):148, figures 1–7.  
 NEPAL, Bagmati Zone [Sindu District], Nuwakot, Uring Ghang [28.01°N, 85.30°E], 11,475' [3498 m], from *Pipistrellus* sp., 6 September 1968, R.[M.] Mitchell.  
 HOLOTYPE ♀, USNM 70841.
- facilis** Eads, 1979. *Meringis* [97908].  
 Great Basin Naturalist, 38(4):451, figures 6–9.  
 USA, New Mexico, Chaves County, sine loco, from *Dipodomys ordii*, 14 December 1966 [J.R. Wheeler].  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 76053.
- falcata** Méndez and Hanssen, 1975. *Kohlsia* [97526].  
 Proceedings of the Entomological Society of Washington, 77(1):91, figures 1–8.  
 COLOMBIA, Llanos (Meta) Department, Hacienda "La Conquista," [70 km N, of Puerto López, 04.06°N, 72.57°W], 642 m, from *Tamandua tetradactyla*, July 1971, H. Hanssen.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 73330.
- falsicalifornicus** C. Fox, 1929. *Anomiopsyllus* [92927].  
 Entomological News, 40(7):218.  
 USA, California [Los Angeles County], Los Angeles, [~34.00°N, 118.15°W], from *Neotoma fus[c]ipes*, 1925, C.[arrol] F.[ox].  
 LECTOTYPE ♂, USNM 28921.  
 REMARKS.—There is also a female on this slide. The author designated the male type. We do not know when or by whom the lectotype designation was subsequently applied. Now *Anomiopsyllus falsicalifornicus falsicalifornicus* C. Fox.
- \*fasteni** Hubbard, 1954. *Monopsyllus ciliatus* [95422].  
 Entomological News, 65(7):174, 1 figure.  
 USA, Idaho, Latah County, Potlatch [46.56°N, 116.53°W], from Chipmunk, *Eutamias* [= *Tamias*] *ruficaudus*, 22 July 1945, C.A. Hubbard.  
 HOLOTYPE ♀, USNM 104621.  
 REMARKS.—A junior synonym of *Ceratophyllus (Amonopsyllus) ciliatus kincaidi* (Hubbard, 1947) according to Johnson, 1961:26.
- firemani** Hubbard, 1955. *Orchopeas sexdentatus* [95505].  
 Entomological News, 66(5):138.  
 MEXICO [Sinaloa State], 56 km N, Los Mochis, Sonora, [on border of Sinaloa and Sonora, ~26.26°N, 109.02°W], from woodrat, *Teanopus* [= *Neotoma*] *phenax*, 23 March 1954, C.A. Hubbard.  
 HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104622.
- floridanus** Johnson and Layne, 1961. *Polygenis* [96107].  
 Proceedings of the Entomological Society of Washington, 63(2):115, figures 1–6, 9, 10.  
 USA, Florida, Alachua County, 10 mi. [16 km] NW Gainesville [~29.37°N, 82.23°W], from *Podomys floridanus*, 13 January 1958, J.N. Layne.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 65669.  
 REMARKS.—Now *Polygenis (Polygenis) floridanus* Johnson and Layne.
- floridensis** I. Fox, 1939a. *Trichopsylla* [93906].  
 Proceedings of the Entomological Society of Washington, 41(2):45, plate 6: figure 6.  
 USA [Florida, Alachua County], Gainesville, U.[niversity] of Fl[orida] [29.37°N, 82.21°W], in "garden truck leaf mold," 30 September 1935, R.R. Shephard.  
 COTYPE ♂, USNM 52897.  
 REMARKS.—The author specified the type slide as number 52897 but did not specifically designate a type, referring to the two males and two females as "cotypes." There is also a female cotype with the same data on a separate slide. We here designate the male cotype the LECTOTYPE and the female the allolectotype of this species. Now *Chaetopsylla (Chaetopsylla) floridensis* (I. Fox).
- fornacis** Jordan, 1937a. *Monopsyllus* [93705].  
 Novitates Zoologicae, 40(2):263, figure 45.  
 USA, California [San Bernardino County] Seven Oaks,

- [~34.11°N, 116.55°W], from Gray squirrel [*Sciurus griseus*], 5-9-36 [9 May 1936], G.M. Kohls.  
[HOLO]TYPE ♀, USNM 104623.
- REMARKS.—The type series consisted of two females. However, there is a male in the collection from the Hastings [Natural History] Reservation [~36.24°N, 121.37°W, Monterey County, California], from *Eutamias* [= *Tamias*] *merriami*, 18 June 1939, which Jellison, 1940, labeled "allotype." This specimen has no type status. Now *Eumolpianus fornacis* (Jordan).
- \**fousti* Hubbard, 1954. *Thrassis* [95420].  
Entomological News, 65(7):173, figure unnumbered.  
USA, Washington, Clallam County [Olympic National Park, ~47.45°N, 123.30°W], from Olympic marmot, *Marmota olympus*, 12 August 1950, C.A. Hubbard.  
LECTOTYPE ♂, USNM 104624.  
REMARKS.—A male and female are on the same slide and originally designated (in red) "holotype" and "allotype," respectively. The slide is also marked "lectotype = ♂" in black ink in an untraced hand. A junior synonym of *Thrassis petiolatus* (Baker, 1904), according to Stark, 1970:39.
- foxi* Ewing, 1924. *Hoplopsyllus* [92401].  
Parasitology, 16(3):350, plate 14: figure 4.  
USA [California, San Francisco County], S.[an] F.[rancisco], 37.45°N, 122.27°W], from *Lepus* [= *Sylvilagus*] *bachmani*, 1908, C. Fox.  
HOLOTYPE ♂, by designation, USNM 23769.  
REMARKS.—Now *Euhoplopsyllus glacialis foxi* (Ewing). There is also a female on this slide that possibly belongs to the subspecies *affinis*.
- francisi* C. Fox, 1927. *Ceratophyllus* [92707].  
Transactions of the American Entomological Society, 53(906):210.  
USA, Utah, sine loco, from *Citellus* [= *Spermophilus*] *mollis*, 1920 [E. Francis].  
LECTOTYPE ♂, USNM 40354.  
REMARKS.—There is also a female on the slide. The author specified the male type under this number. When and by whom this unnecessary lectotype designation was made is not known to us. Now *Thrassis francisi francisi* (C. Fox).
- fraternus* Baker, 1895e. *Typhlopsylla* [89512].  
Canadian Entomologist, 27(7):190.  
USA, S.[outh] D.[akota, Brookings County], Brookings, [44.19°N, 96.47°W], [*Scalpus aquaticus*], no date given, J.M. Aldrich.  
TYPE ♀, USNM 104625.  
REMARKS.—Additional specimens of this species were known to the author at the time of description. Prudence dictates that the type cited above be designated the LECTOTYPE and we do so here. Now *Rhadinopsylla (Actenophthalmus) fraterna* (Baker).
- \**fusca* Lewis, 1971b. *Callopsylla (Orneacus)* [97121].  
Journal of Parasitology, 57(4):761, figures 1-6.  
NEPAL, Sindhu-Palchok District, Dhukpu, 19 km N, Tarke Gyang [28.06°N, 85.35°E, 3969 m], from *Carpodacus erythrinus pallidus* nest, 9 August 1969, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71508.  
REMARKS.—A junior synonym of *Megabothris (Kueichenlipsylla) rhipisoides* Li and Wang, 1964, according to Liu et al., 1986:1131.
- gammonsi* Traub, 1950b. *Kohlsia* [95018].  
Fieldiana: Zoology Memoires, 1:51, plate 31: figures 1-9.  
EL SALVADOR, Chalatenango Department, sine loco, from *Peromyscus [numipsylla]* penciled in], 25 March 1942, M. Hildebrand.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104626.  
REMARKS.—The only species of *Peromyscus* with a trivial name near *numipsylla* is *nudipes*, which is now treated as a junior synonym of *mexicanus*. The allotype female is from *Peromyscus*, 24 March 1942.
- genalis* Baker, 1904. *Ctenophthalmus* [90435].  
Proceedings of the United States National Museum, 27(1361):420, 424.  
USA, Michigan [Ingham County], Agricultural College [East Lansing, 42.45°N, 84.30°W], from *Scalops* [= *Scalopus aquaticus*], October [18]91, C.[F.] Baker.  
[HOLO]TYPE ♂, USNM 6923, by monotypy.  
REMARKS.—Now *Nearctopsylla (Beringiopsylla) genalis genalis* (Baker).
- geneatus* Traub, 1963b. *Nosopsyllus (Penicus)* [96307].  
Proceedings of the Entomological Society of Washington, 65(2):82, figures 1-12.  
EGYPT, Sinai Province, St. Catherine's Monastery, [28.33°N, 33.58°E], from *Acomys russatus*, 16 November 1952, H. Hoogstraal.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 66658.
- georgiana* Pratt and Harrison, 1954. *Nearctopsylla (Beringiopsylla)* [95413].  
Proceedings of the Entomological Society of Washington, 56(3):124, figures 1, 2.  
USA, Georgia [Towns County], top Brasstown Bald [= Mt., 34.52°N, 83.48°W], 4782 ft [1459 m], from *Blarina brevicauda* [= *carolinensis*], 16 November 1952, J.O. Harrison.  
HOLOTYPE ♂, USNM 61859.
- georychi* C. Fox, 1914. *Rooseveltiella* [91413].  
Bulletin of the Hygienic Laboratory, Washington, 97:7, plate I: figures 1-6.  
[ANGOLA, Bié-Cuando Cubango Province], 483 km inland from Benguela, from *Georychus* sp. [probably *Cryptomys bocagei*], no date given, Misses M. and H.J. Melville.  
LECTOTYPE ♂, USNM 18452.  
REMARKS.—According to the author there were six pairs in the type series. We have been unable to determine when, where, or by whom this lectotype was designated. Now *Xenopsylla georychi* (C. Fox). *Georychus capensis* does

not occur in Angola, and Ribeiro, 1975:77, noted that *Cryptomys bocagei* seemed to be the preferred host. That distance east of Benguela would place the type locality at about 13.00°S, 17.45°E. There is also a female on the slide which we designate the allolectotype.

**ghanensis** Segerman, 1971. *Ctenophthalmus (Ethioctenophthalmus)* [97109].

Novos Taxa Entomológicos, 87:3, figures 1–3.

GHANA, Eastern Region, Berekuso, untraced, from *Hybomys trivirgatus* (Temminck), 16 October 1967 [H.W. Setzer et al.].

HOLOTYPE ♂, USNM 72477.

REMARKS.—There is no designated allotype, but there is a female paratype on the same slide.

**\*gibsoni** C. Fox 1914. *Ceratophyllus* [91419].

Bulletin of the Hygienic Laboratory, Washington, 97:15, plate V: figures 4, 5.

CANADA [Ontario], Point Lepreux, Ottawa [45.25°N, 75.43°W], in hen [*Gallus gallus*] house, 13 July 1909, Arthur Gibson.

LECTOTYPE ♂, USNM 18457.

REMARKS.—Only a single pair made up the type series. We do not know where, when, or by whom the lectotype male was formally designated. There is also a female on the slide which we here designate the allolectotype. This is a junior synonym of *Ceratophyllus (Ceratophyllus) gallinae* (Schrank, 1803), according to Ewing and I. Fox, 1943:69.

**\*gillettei** Baker, 1895b. *Pulex* [89503].

Canadian Entomologist, 27(4):109, 111.

USA, Michigan [Ionia County], Portland [42.52°N, 84.53°W], from Red squirrel [*Tamiasciurus hudsonicus*], date not given, C.P. G.[illette].

LECTOTYPE ♀, USNM 104632, by present designation.

REMARKS.—There are two females on the same slide attributed to this species. Baker, 1895b:111, “described” *Pulex Wickhami*, *P. Gillettei*, and *P. Howardii* in that order. See Lewis and Lewis, 1989:168, and Lewis, 1990:125, for the history of these names. This name is a junior synonym of *Orchopeas howardi howardi* (Baker, 1895b), in spite of the fact that it has page priority over that name.

**girshami** Traub, 1950a. *Acropsylla episema* [95071].

Proceedings of the Entomological Society of Washington, 52(3):137, figures 55–64.

BURMA, 10 km N, Myitkyina [~25.27°N, 97.25°E], from underground nest of *Mus bactrianus* [= *musculus*], 27 March 1945, R. Traub.

HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104627.

REMARKS.—Allotype female from the same locality and host but 21 March 1945.

**glyphona** Mardon, 1976. *Papuapsylla* [97615].

Australian Journal of Zoology, Supplementary Series, 45:13, figures 6, 28, 45, 75, 76, 84.

[PAPUA] NEW GUINEA, Morobe District, 19 km E of Edie Creek, Bulldog Road [~07.30°S, 146.35°E], from “rat,” 8 July 1966, R.[M.] Mitchell.

HOLOTYPE ♂, USNM 103881.

**golana** Lewis and Burt, 1973. *Rhadinopsylla (Rhadinopsylla)* [97305].

Journal of the Kansas Entomological Society, 46(2):144, figures 1–9.

ISRAEL, Ramath ha’Golan [~33.05°N, 35.44°E], from *Spalax* [= *Nannospalax ehrenbergi*] nest, 1 March 1968, M. Costa.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72538.

**goodi** Hubbard, 1941. *Micropsylla* [94111].

Pacific University Bulletin, 37(10):3, figures unnumbered.

USA, Oregon [Washington County], Forest Grove, [45.32°N, 123.07°W], from Deer mouse, *P.[eromyscus] m.[aniculatus]* Osgood, 12 March 1937, C.A. Hubbard.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 56437.

REMARKS.—Now *Rhadinopsylla (Micropsylla) sectilis goodi* (Hubbard).

**gracilis** Lewis, 1971c. *Chaetopsylla (Chaetopsylla)* [97131].

Journal of Parasitology, 57(6):1344, figures 1–5.

NEPAL, Solukhumbu District, Khumjung, 2 mi. [3 km], NE Namche Bazar [27.49°N, 86.44°E, 3673 m], from *Ochotona roylei*, 17 October 1968, R.M. Mitchell.

HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 71507.

REMARKS.—Allotype female with same data but 7 November 1968.

**grossiventris** Weyenbergh, 1879. *Pulex* [87901].

Boletín de la Academia Nacional de Ciencias en Córdoba, 3(2–3):188.

ARGENTINA, sine loco, from *Dasybus minutus* [= *Zaedyus pichiy*], no date given, H. Weyenbergh.

LECTOTYPE ♀, BMNH, designated by Hopkins, 1962:266.

REMARKS.—The specimen in the USNM labeled “type” is without data other than that it was collected in Argentina by a Dr. Berg. In view of the action by Hopkins, the three damaged USNM specimens are at most only paralectotypes, and we doubt that they have any type status at all. Now *Malacopsylla grossiventris* (Weyenbergh).

**grundmanni** Egoscue, 1989. *Traubella* [98916].

Bulletin of the Southern California Academy of Sciences, 88(3):131, figures 4–7.

USA, Utah, Washington County, 2 mi [3 km] NE Ivins, mouth of Snow Canyon [~37.08°N, 113.39°W], 3100 ft. [946 m], from *Peromyscus crinitus*, 19 November 1988, H.J. Egoscue.

HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104628.

**gurrlicos** Mardon, 1976. *Papuapsylla* [97622].

Australian Journal of Zoology, Supplementary Series, 45:27, figures 20, 41, 56, 68, 95.

[PAPUA] NEW GUINEA, Morobe District, 12 mi [19 km]

East of Edie C[ree]k, Bulldog Road [−07.30°S, 146.35°E], 2405 m, from “giant rat,” 13 July 1966, N. Wilson.

HOLOTYPE ♂, USNM 103882.

**gwyni** C. Fox, 1914. *Rhopalopsyllus* [91415].

Bulletin of the Hygienic Laboratory, Washington, 97:10, plate III: figures 1–6.

USA, Georgia [Glynn County], Brunswick, Quarantine Stat.[ion] [31.09°N, 81.30°W], from “rats” = *Rattus norvegicus* or *rattus*, 1904, M.K. Gwyn.

LECTOTYPE ♂, USNM 18454.

REMARKS.—The type series contained four males and one female. We do not know where, when, or by whom the lectotype male was formally designated. The allolectotype female on separate slide with same data is designated here. Now *Polygenis (Polygenis) gwyni* (C. Fox).

**hadweni** Ewing, 1927. *Amphipsylla* [92705].

Proceedings of the Biological Society of Washington, 40:89.

USA, Alaska, Puffin Island, untraced, from *Xema sabini*, 6 August 1920, S. Hadwen.

TYPE ♀, USNM 40349.

REMARKS.—There are two females on separate slides in the collection. Both were evidently consulted during description and are thus really syntypes. We here designate one of these the LECTOTYPE. Now *Mioctenopsylla arctica hadweni* (Ewing).

**hamata** Holland and Jameson, 1950. *Nearctopsylla* [95001].

Canadian Entomologist, 81(10):250, figures 1–3.

USA, California, Plumas County, Quincy [39.56°N, 120.56°W], from *Neurotrichus gibbsii*, 28 December 1948, E.W. Jameson, Jr.

HOLOTYPE ♂, Allotype ♀, on separate slides with same data, USNM 104629.

REMARKS.—Now *Nearctopsylla (Beringiopsylla) hamata* Holland and Jameson.

**hamata** Tipton and Méndez, 1968. *Phalacropsylla* [96808].

Pacific Insects, 10(1):184, figures 7–10.

MEXICO, Nuevo Leon State [Municipio de Galeana], Cerro Potosi [−65 km W Linares, 25.54°N, 100.21°W], from rodent nest, 20 April 1964, V.J. Tipton et al.

HOLOTYPE ♂, USNM 69697.

**hecate** Johnson, 1957b. *Ectinorus* [95737].

Memoirs of the Entomological Society of Washington, 5:140, plate 66: figures 1–4, 6.

PERU, Arequipa Department, Huaylarco, 57 km ENE Arequipa [16.20°S, 71.20°W], 15,500' [4700 m], from *Felis* [= *Oncifelis*] *colocolo*, 30 March 1952, O.P. Pearson.

HOLOTYPE ♀, USNM 63368.

REMARKS.—Now *Ectinorus (Ectinorus) hecate* Johnson.

**heiseri** McCoy, 1911. *Ctenophthalmus* [91120].

Entomological News, 22(12):445, 3 figures unnumbered.

[USA, California, Kern County, Mojave, 32.02°N, 118.11°W], no host, date, or collector.

[HOLO]TYPE ♀, by monotypy, USNM 14154.

REMARKS.—Now *Rhadinopsylla (Actenophthalmus) heiseri* (McCoy).

**helenae** Lewis, 1973a. *Palaeopsylla* [97302].

Journal of Parasitology, 59(1):190, figures 8–14.

NEPAL, Sindhu District, Melumche [28.03°N, 85.33°E, 2469 m], from *Soriculus nigrescens*, 16 August 1968, R.[M.] Mitchell.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72370.

**hertigi** Johnson, 1957b. *Dysmicus* [95735].

Memoirs of the Entomological Society of Washington, 5:136, plate 61: figures 1–8.

PERU, Puno [Department], Pichupichuni, 8 km NW Huacullani [16.38°S, 69.21°W], 12,600 ft. [3843 m], from *Ctenomys peruanus*, 10 April 1952, O.P. Pearson.

HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 63366.

REMARKS.—The slide bearing the allotype also bears a male paratype. Now *Ectinorus (Ectinorus) hertigi* (Johnson).

**hesperomys** Baker, 1904. *Ctenopsyllus* [90436].

Proceedings of the United States National Museum, 27(1361):428.

USA, N.[ew] H.[ampshire, Grafton County], Franconia, [−44.16°N, 71.42°W], on *Hesperomys*, [= *Peromyscus* sp.], no date given, Mrs. A.T. Slosson.

[HOLO]TYPE ♀, USNM 6924, by monotypy.

REMARKS.—Now *Peromyscopsylla hesperomys hesperomys* (Baker).

**hetera** Lewis and Jones, 1985. *Gryphopsylla (Migrastivalius)* [98506].

Journal of Medical Entomology, 22(2):206, figures 5–8.

INDONESIA, Sulawesi Selatan, Biroro, 05.15°S, 119.51°E, from *Maxomys musschenbroeki*, 30 January 1969, G.S. Jones.

HOLOTYPE ♂, USNM 101392.

**hiemalis** Eads and Menzies, 1948. *Anomiopsyllus* [94809].

Journal of the Kansas Entomological Society, 21(4):133, figures 1–5.

USA, Texas, Gaines County, sine loco, from *Neotoma micropus*, 23 April 1948, coll. [V.I.] Miles et al.

HOLOTYPE ♂, USNM 104630.

REMARKS.—Allotype female with same data but 9 April 1948. Now *Anomiopsyllus nudatus hiemalis* Eads and Menzies.

**hirsutus** Baker, 1895c. *Pulex* [89507].

Canadian Entomologist, 27(5):130, 132.

USA, Colorado, Larimer County, Stove Prairie [−40.35°N, 105.20°W], from Prairie dog [*Cynomys ludovicianus*], 7-31-92 [31 July 1892], C.P. G.[illette].

LECTOTYPE ♀, BMNH, designated by Smit and Wright, 1978b:23.

REMARKS.—“Type” and “genotype,” as *Opisocrostis hirsutus*, from Colorado, Larimer County, Stove Prairie, from

- Prairie dog [*Cynomys* sp.], 31 July 1892, C.P. G.[illette], one slide bearing two females. These were evidently part of the type series and are now paralectotypes. However, the male sex was described as the "allotype," and figured for the first time by Jellison, 1939:840, from material collected from a prairie dog in Jefferson Canyon, Montana. This specimen has no type status. Now *Oropsylla* (*Opisocrostis*) *hirsuta* (Baker).
- hoffmani** Hubbard, 1949c. *Thrassoides* [94928].  
Bulletin of the Southern California Academy of Sciences, 48(2):51, plate 7.  
USA, Nevada, Nye County, Beatty [36.54°N, 116.45°W], from Kangaroo rat, *Dipodomys deserti*, 30 December 1946, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104631.  
REMARKS.—Now *Thrassis aridis hoffmani* (Hubbard).
- hollandi** Lewis, 1974a. *Paradoxopsyllus* [97410].  
Journal of Medical Entomology, 11(1):50, figures 11–15.  
NEPAL, Solukhumbu District, Lukla Airport [27.43°N, 86.44°E, 2900 m], from *Mus musculus*, 23 November 1968, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72542.
- hollandi** Mardon, 1976. *Papuapsylla* [97619].  
Australian Journal of Zoology, Supplementary Series, 45:20, figures 13, 35, 51, 61, 91, 102.  
[PAPUA] NEW GUINEA, Sepik District, Telefomin, 17 mi [27 km] NW of Lake Louise [05.08°S, 141.30°E], elev. ±2800 m, from *Melomys* sp., 11 April 1971, A.B. Mirza.  
HOLOTYPE ♂, USNM 103883.
- \*hollandi** Lewis, 1977. *Frontopsylla* (*Frontopsylla*) [97701].  
Journal of Medical Entomology, 13(4–5):523, figures 1–5.  
NEPAL, Mustang District, Geling[gaon, 28.59°N, 83.51°E], ±12,500' [3700 m], from *Apodemus sylvaticus*, 2 June 1970, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 73498.  
REMARKS.—A junior synonym of *Frontopsylla* (*Frontopsylla*) *adixsterna* Liu, Shao, and Liu, 1976:460, according to Smit and Wright, 1978a:47.
- hoogstraali** Traub, 1963c. *Ctenophthalmus* (*Ethioctenophthalmus*) [96311].  
Proceedings of the Helminthological Society of Washington, 30(2):266, figures 1–12.  
SUDAN, Ekuatoria Province, Torit, Imatong Mts., Gilo [04.27°N, 32.31°E], 6500' [1981 m], from *Lophuromys* sp., 26 December 1949, H. Hoogstraal.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 66659.
- hoogstraali** Lewis, 1967a. *Rhadinopsylla* (*Actenophthalmus*) [96715].  
Proceedings of the Biological Society of Washington, 80:179, figures 1–5.  
LEBANON, South slope of Mt. Sannin [~33.57°N, 35.54°E], 2000 m, from *Microtus guentheri*, 9 May 1965, R.[E.] Lewis and S.[I.] Atalla[h].
- HOLOTYPE ♂, USNM 69511.
- hopkinsi** Traub, 1957. *Gryphopsylla* (*Gryphopsylla*) [95772].  
Studies from the Institute for Medical Research, Federation of Malaya, 28(17):49, figures 31–41.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, Tenompak [05.07°N, 115.57°E], 4500' [1372 m], from *Rattus* [= *Maxomys*] *whiteheadi*, 30 July 1951, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 64078.
- hopkinsi** Méndez, 1977. *Polygenis* [97730].  
Quaestiones Entomologicae, 13(2):139–140, figures 27, 28.  
COLOMBIA, Departamento del Cauca, Cerro Munchique (60 kms by road West of Popayán), Peña del Cerro, [~02.27°N, 77.07°W], 2160 m, from *O.[ryzomys]* *albigularis*, 11 May 1967, H. Trapido.  
HOLOTYPE ♂, USNM 104260.  
REMARKS.—Now *Polygenis* (*Polygenis*) *hopkinsi* Méndez.
- howardii** Baker, 1895b. *Pulex* [89504].  
Canadian Entomologist, 27(4):111.  
USA, Georgia [Rabun County], Tallula Falls [34.45°N, 83.22°W], from "squirrel" [= *Sciurus niger*], no date given, L.O. Howard.  
TYPE ♂, USNM 10934.  
REMARKS.—Originally described as *Pulex* "Howardii" Baker. The lectotype male of this species, with the data given above, is in the BMNH and was so designated by Hopkins, 1954:198. There are three slides in the USNM collection bearing one male and two females of this species. As a result of Hopkins' action, these are now paralectotypes. Now *Orchopeas howardi howardi* (Baker).
- hubbardi** Kohls, 1938. *Meringis* [93807].  
Public Health Reports, Washington, 53(28):1217, figures 1–3.  
USA, Idaho [ho, Elmore County], Mayfield [43.24°N, 115.59°W], from Cottontail rabbit [*Sylvilagus* sp.], 25 June 1932, Carl Larson.  
HOLOTYPE ♂, Allotype ♀, USNM 104633.  
REMARKS.—The allotype was collected in Elko County, Nevada, from *Dipodomys* sp., September 1936.
- hubbardi** Egoscue, 1968. *Stenistomera* [96818].  
Bulletin of the Southern California Academy of Sciences, 67(3):138, figures 1–3.  
USA, Oregon, Harney County, 5 mi. [8 km] S, of Crane on highway 78 [~43.24°N, 118.34°W], from *Peromyscus maniculatus*, 23 October 1966, H.J. Egoscue.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 703414.
- idahoensis** Baker, 1904. *Ceratophyllus* [90430].  
Proceedings of the United States National Museum, 27(1361):413, plate XVIII: figures 1–6.  
USA, Idaho, Latah County, Moscow [46.44°N, 117.00°W], from *Spermophilus columbianus*, 1 May [no year], [J.M.] Aldrich.  
TYPE, sex not indicated, USNM 6918.  
REMARKS.—Both sexes were before the author at the time



of description and heads of both sexes are figured on plate XVIII: figures 1 and 2. There is only one slide in the collection but both sexes are mounted on it. We here designate the male as the LECTOTYPE and the female as the ALLOLECTOTYPE of this species. Now *Oropsylla (Oropsylla) idahoensis* (Baker).

**ignotus** Baker, 1895b. *Pulex* [89506].

Canadian Entomologist, 27(4):110 (April).

USA, Iowa [Story County], Ames [42.02°N, 93.33°W], on *Geomys bursarius*, 9-5-89 [5 September 1889], H. Osborn.

NEOTYPE ♂, USNM 104634, designated by Hopkins and Johnson (1959:82).

REMARKS.—There is no real description of this species, other than the diagnostic characters given in the key (Baker, 1895b:110). Jordan and Rothschild, 1915:54, later said that the type series of *Foxella ignota ignota* (as *Ceratophyllus ignotus*) consisted of 2 females. Baker, 1895e, described *Typhlopsylla americana* from *Geomys bursarius*, from Ames, Iowa, (Osborn), Fort Collins, Colorado, (Osborn), and Moscow, Idaho, (R.C.G.). Although he later placed *T. americana* as a synonym of *C. ignotus*, the type locality of *T. americana* was restricted to Ames, Iowa, and *americana* can not be used for any other geographical variant. The type specimen of *T. americana* was from *Geomys bursarius* collected at Ames, Iowa, on 5 September 1889 by Herbert Osborn. This slide is currently in the collection of the University of Nebraska State Museum, Division of Entomology, Lincoln. Baker labeled all specimens in his type series "type," so these are actually syntypes of *Typhlopsylla americana*. In order to clear up the nomenclatural confusion, Hopkins and Johnson, 1959:82, designated the NEOTYPE listed above, and indicated that it was in the collection of the USNM. Smit and Wright (1978b:5) list a specimen with the same data as being the lectotype in the BMNH collection. Now *Foxella (Foxella) ignota ignota* (Baker).

**impersia** Traub and Evans, 1967a. *Ophthalmopsylla (Ophthalmopsylla) volgensis* [96711].

Journal of Medical Entomology, 4(3):351, figures 21–28, 30–32.

IRAN, Mazandaran Province, 3 km SW Dasht [~37.19°N, 56.01°E], from *Allactaga elater*, 17 May 1963, G.L. Ranck.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69710.

**inaequalis** Baker, 1895d. *Pulex* [89510].

Canadian Entomologist, 27(6):163.

USA, Arizona [Coconino County], near Mesa City, [~36.00°N, 112.00°W], from Jack rabbit [*Lepus californicus*], 14 June [18]92, A.B. Cordley.

TYPE, a pair, USNM 10933.

REMARKS.—Smit and Wright, 1978b:24, indicated that the lectotype female was in the BMNH, having been designated in a footnote in Hopkins and Rothschild,

1953:180. This has precedence over the "type" slides in the USNM. There is another "type" slide bearing a male and female of this species from "near Grand Cañon, Ariz.[ona] 7-6-92 [6 July 1892] from Cottontail rabbit [*Sylvagus sp.*]. A.B. Cordley." These then are paralectotypes at the most. Now *Cediopsylla inaequalis inaequalis* (Baker).

**\*inflexus** Jordan, 1929a. *Ceratophyllus niger* [92917].

Novitates Zoologicae, 35(1):37, plate II: figure 25.

USA, Col[orado], Custer County, sine loco, no host or date given, T.D.A. Cockerell.

[HOLO]TYPE ♀, by designation, USNM 41425.

REMARKS.—This is a junior synonym of *Ceratophyllus (Ceratophyllus) niger* C. Fox, 1908, according to Wagner, 1936:201.

**insolli** Traub, 1950a. *Stivalius* [95068].

Proceedings of the Entomological Society of Washington, 52(3):111, figures 1–13.

MALAYSIA, Malaya, Pahang, Cameron Highlands, Brinchong Hill [04.30°N, 101.34°E], 4500' [1372 m], from bird nest in tree, 19 July 1948, R. Traub.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104635.

REMARKS.—Now *Lentistivalius (Lentistivalius) insolli* (Traub).

**intermedia** Lewis and Wilson, 1982. *Nycteridopsylla* [98224].

Journal of Medical Entomology, 19(5):606, figures 1–15.

USA, Texas, Brewster County [Big Bend National Park, Mt. Emory Cave, ~29.15°N, 103.19°W, 2121 m], from *Plecotus townsendii*, 21 January 1980, G.V. Oliver, Jr.

HOLOTYPE ♂, USNM 100223.

REMARKS.—Allotype female from Boulder County, Colorado, from *Plecotus pallescens* [= *townsendii*], 19 January 1977, C.J. Mitchell, on a separate slide.

**intermedius** Hubbard, 1943b. *Orchopeas sexdentatus* [94306].

Pacific University Bulletin, 39(10):2, figure unnumbered.

USA, Kansas, Meade County, sine loco, from woodrat, *Neotoma micropus*, July 1940, J.E. Hill and P.E. Crowe.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM. 57087.

**inti** Johnson, 1957b. *Plocopsylla* [95731].

Memoirs of the Entomological Society of Washington, 5:72, plate 37: figures 1–7.

PERU, Tacna Department, 2 km N, Tarata [17.28°S, 70.02°W], 11,500 ft. [3508 m], from *Phyllotis magister*, 25 January 1952, O.P. Pearson.

HOLOTYPE ♂, USNM 63365.

REMARKS.—Allotype female, same data but from *Phyllotis darwini*.

**\*israelicus** Lewis, 1970b. *Ctenophthalmus (Euctenophthalmus) levanticus* [97011].

Journal of the Kansas Entomological Society, 43(2):194, figures 21–27.

ISRAEL, Ramath ha'Golan [~33.05°N, 35.44°E], from *Spalax* [= *Nannospalax ehrenbergi*] nest, 21 March 1968, M. Costa.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71001.

REMARKS.—This is a junior synonym of *Ctenophthalmus*

- (*Euctenophthalmus*) *levanticus* Lewis, 1964, according to Smit and Wright, 1978a:43.
- jamesoni** Hubbard, 1943a. *Meringis* [94303].  
Pacific University Bulletin, 39(9):2, figure unnumbered.  
USA, Colorado, Alamosa County, sine loco, from Pocket mouse, *Perognathus flavus*, August 1940, J.E. Hill and P.E. Crowe.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 57088.
- jaonis** Jordan, 1929b. *Rhadinopsylla* [92922].  
Novitates Zoologicae, 35(1):40, figure 1.  
P[EOPLE'S] R[EPUBLIC OF] C[HINA], Shansi Province, Wu-Yasi, untraced, from a mole, *Scaptochirus gilliesi* [= *moschatus*], 7 February [19]08, collector not given.  
HOLOTYPE ♀, by monotypy, USNM 41415.  
REMARKS.—Now *Rhadinopsylla* (*Micropsylloides*) *jaonis* Jordan.
- javanicus** Ewing, 1924. *Ceratophyllus* [92402].  
Parasitology, 16(3):351, plate XIV: figure 5.  
INDONESIA, Java, Gede [Tandjung], Fijibodas Mt., [07.44°S, 107.47°E], from skunk, 519 ♂ [= *Melogale orientalis*], 12 September 1909, Palmer and Bryant.  
HOLOTYPE ♂, USNM 23770.  
REMARKS.—The type series consisted of one male and eleven females. The author did not formally designate the male as holotype, and this specimen is designated the LECTOTYPE of the species here. Now *Paraceras javanicum* (Ewing). Also assigned to *Aceratophyllus* in Ewing, (1929b:202), a synonym of *Macrostylophora* Ewing, 1929b.
- \*jellisoni** I. Fox, 1941. *Opisodasys* [94101].  
Entomological News, 52(2):46, figures 1–3.  
USA, Idaho [Ada county], Boise H. F. [43.38°N, 116.12°W], from *Glaucomys sabrinus*, 15 December 1939, W.H. Marshall.  
HOLOTYPE ♂, USNM 54259.  
REMARKS.—The holotype male of this junior synonym is *Tarsopsylla octodecimdentata coloradensis* (Baker, 1895). Data for the allotype female is the same, but 15–18 December 1939, Deer Park, and it is a junior synonym of *Opisodasys* (*Opisodasys*) *vesperalis* (Jordan, 1929) according to Holland, 1949b:143.
- jellisoni** Hubbard, 1940b. *Thrassis* [94052].  
Pacific University Bulletin, 37(6):3, figure [unnumbered].  
USA, Nevada [Humboldt County, Franklin Ranch], 15 mi. [24 km] S, Denio, Oregon [–41.48°N, 118.38°W], from Oregon ground squirrel, *Citellus oregoni* [= *Spermophilus heldingi*], 4 July 1939, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, one ♂ paratype, all on one slide, USNM 55130.  
REMARKS.—Now *Thrassis pandorae jellisoni* Hubbard.
- \*jewetti** Hubbard, 1940a. *Meringis* [94050].  
Pacific University Bulletin, 37(5):3.  
USA, Oregon, Baker County, Baker City [44.46°N, 117.50°W], from Oregon pocket mouse, *P.[erognathus] parvus*, 12 July 1939, C.A. Hubbard.  
HOLOTYPE ♂, USNM 54950.  
REMARKS.—A junior synonym of *Meringis hubbardi* Kohls, 1938, according to Smit, 1953a:399.
- johnsonae** Tipton and Méndez, 1961. *Jellisonia* [96101].  
Annals of the Entomological Society of America, 54(2):259, plate 3: figures 1–5, plate 4: figures 6–10.  
PANAMA, Chiriquí, Cerro Punta [08.53°N, 82.34°W], below Casa Pitty, 6000' [1829 m], from *Scotinomys teguina*, 31 January 1960, [C.M.] Keenan and [V.J.] Tipton.  
HOLOTYPE ♂, USNM 66653.  
REMARKS.—Allotype female on a separate slide, from Chiriquí, Bambito [08.15°N, 82.37°W], from *Peromyscus nudipes* [= *mexicanus*], 10 February 1960.
- \*johnsoni** Hubbard, 1949b. *Megabothris clantoni* [94923].  
Entomological News, 60(7):171, figure 1b.  
USA, Washington, Kittitas [= Kittitas] Co.[unty], 18 mi. [29 km] E Ellensburg [47.00°N, 120.34°W], from Sagebrush vole, *Lagurus* [= *Lemmiscus*] *c.[urtatus]*, 14 August 1949, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104636.  
REMARKS.—A junior synonym of *Megabothris (Amegabothris) clantoni* Hubbard, 1949a, according to Lewis et al., 1988:198.
- johnsoni** Hubbard, 1949a. *Thrassis gladiolus* [94921].  
Entomological News, 60(6):143, figure unnumbered.  
USA, Washington, Lincoln County, Davenport [47.38°N, 118.09°W], from Sagebrush vole, *L.[agurus] [= Lemmiscus] c.[urtatus]*, 15 May 1949, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104637.  
REMARKS.—Now *Thrassis bacchi johnsoni* Hubbard.
- \*jordani** I. Fox, 1939b. *Malaraeus* [93913].  
Iowa State College Journal of Science, 13(4):337, plate 1: figure 2.  
MEXICO, Nuevo Leon, Cerro Potosi [24.52°N, 100.13°W] from *Peromyscus* sp., 20 July 1938, H. Hoogstraal.  
HOLOTYPE ♂ said to be in the Iowa State University Insect Collection, but now in the USNM, USNM 104638.  
REMARKS.—This is a junior synonym of *Amaradix euphorbi* (Rothschild, 1905), according to Tipton and Méndez, 1968:191.
- \*kansensis** Hubbard, 1943b. *Monopsyllus exilis* [94304].  
Pacific University Bulletin, 39(10):1, figure [unnumbered].  
USA, Kansas, Meade County, sine loco, from Grasshopper mouse, *Onychomys leucogaster*, July 1940, J.E. Hill and P.E. Crowe.  
HOLOTYPE ♂, USNM 57089.  
REMARKS.—This is a junior synonym of *Pleochaetis exilis* (Jordan, 1938), according to Johnson, 1961:13.
- keenani** Tipton and Méndez, 1961. *Kohlsia* [96103].  
Annals of the Entomological Society of America, 54(2):265, plate 7: figures 1–5, plate 8: figures 6–10.

- PANAMA, Chiriquí Province [El Hato del Volcán and] lava flow, Bambito [08.15°N, 82.37°W, 1524 m], from *Peromyscus nudipes* [= *mexicanus*], 28 January 1960, [C.M.] Keenan and [V.J.] Tipton.  
HOLOTYPE ♂, USNM 66652.  
REMARKS.— Allotype female from Chiriquí, Cerro Punta, [08.53°N, 82.34°W], Casa Tilley, 5300' [1615 m], 27 January 1960.
- keeni** Baker, 1896b. *Pulex* [89603].  
Canadian Entomologist, 28(9):234.  
CANADA, British Columbia, Queen Charlotte Islands, Graham Island, Masset [54.01°N, 132.09°W], from *Sitomys keeni* [= *Peromyscus maniculatus*], 19 August 1895, J.H. Keen.  
LECTOTYPE ♂, BMNH, designated by Smit and Wright, 1978b:26.  
REMARKS.—Now *Opisodasys (Oxypssylla) keeni* (Baker). There are two slides in the collection bearing the data given above marked "type," but lacking numbers. Given the action of Smit and Wright, these specimens can only be paralectotypes at most.
- kilya** Schramm and Lewis, 1987. *Plocopsylla* [98708].  
Journal of Medical Entomology, 24(4):405, figures 16–20.  
PERU, Piura Department, Huancabamba, Tambo [05.17°S, 79.28°W], 2880 m, from *Thomasomys* sp., 8 May 1954, C. Kalinowski.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 103884.  
REMARKS.—An additional female is on the holotype slide.
- kincaidi** Hubbard, 1947. *Monopsyllus ciliatus* [94704].  
*Fleas of Western North America*, page 232, figure 119a.  
USA, Oregon [Wallowa County], Wallowa Lake [45.20°N, 117.14°W], from Yellow-bellied chipmunk, *Eutamias* [= *Tamias*] *a. moenus*, 30 July 1945, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104639.  
REMARKS.—Now *Ceratophyllus (Amonopsyllus) ciliatus kincaidi* (Hubbard).
- kulkarnii** Lewis, 1981. *Amphipsylla* [98102].  
Journal of Medical Entomology, 18(1):50, figures 16–20.  
NEPAL, Mustang Dist.[rict], Ghilinggaon [28.59°N, 83.51°E, 3810 m], from *Alticola stoliczkanus*, 1 June 1970, Mani K. Lama.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 76782.
- \*kylei** Hubbard, 1949c. *Monopsyllus wagneri* [94929].  
Bulletin of the Southern California Academy of Sciences, 48(2):52, plate 8.  
USA, Nevada, Clark County, Kyle Canyon [NW Las Vegas, 36.10°N, 115.10°W], from Deer mouse, *P. [eromyscus] m. [aniculatus]*, 25 June 1945, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104640.  
REMARKS.—A junior synonym of *Aetheca wagneri* (Baker, 1904), according to Johnson, 1961:32.
- kyriophila** Tipton and Méndez, 1966. *Hormopsylla* [96616].  
*Ectoparasites of Panama*, Wenzel and Tipton, editors, page 303, plates 60, 61.  
PANAMA [Panamá Province], Pacora [~40 km NE Panama City, 09.04°N, 79.18°W], belfry of church, from *Tadarida yucatanica* [= *Nyctinomops laticaudatus*], 21 June 1961, [C.M.] Keenan and [V.J.] Tipton.  
HOLOTYPE ♂, USNM 104641.  
REMARKS.—Allotype female on separate slide with same data but 20 June 1961.
- labiatus** Baker, 1904. *Ceratophyllus* [90421].  
Proceedings of the United States National Museum, 27(1361):402, plate XIX: figures 6–9.  
USA, Idaho [Latah County], Moscow, [46.44°N, 117.00°W], from *Lynx canadensis*, date not given, [J.M.] Aldrich.  
[HOLO]TYPE ♀, USNM 6909, by monotypy.  
REMARKS.—Now *Orchopeas labiatus* (Baker). This may be an earlier name for *Orchopeas caedens caedens* (Jordan, 1925), although the spermatheca appears to be much more globular in *O. labiatus*. Remounted 10 May 1927 by N. C.
- leucopus** Baker, 1904. *Ceratophyllus* [90420].  
Proceedings of the United States National Museum, 27(1361):401.  
USA, New York [Madison County], Peterboro, [43.00°N, 75.40°W], from *Peromyscus leucopus*, July 1900, G.S. Miller.  
[HOLO]TYPE ♀, USNM 6908, by monotypy.  
REMARKS.—Now *Orchopeas leucopus* (Baker).
- levis** Jordan and Rothschild, 1922a. *Ceratophyllus* [92204].  
Ectoparasites, I(4):219, figure 213.  
MALAYSIA, Selangor, Ginting [recte Genting] Bidai [= Pass] [03.18°N, 101.42°E, 609 m], host unknown, April 1917, C. Boden Kloss.  
HOLOTYPE ♂, by monotypy, BMNH.  
REMARKS.—Now *Macrostylophora levis* (Jordan and Rothschild). There is a female in the USNM collection with the following data: "Malaya, Cameron H'lds [= Highlands], Brinchong Hill, 5500' [1676 m], from *Callosciurus* [= *Sundasciurus*] *tenuis*, 18 July 1948, R. Traub." Traub, 1950a:133, redescribed the male and described the female, designating one female as the allotype. According to our interpretation this female has no type status.
- \*libanensis** Lewis, 1970b. *Ctenophthalmus (Medioctenophthalmus) costai* [97010].  
Journal of the Kansas Entomological Society, 43(2):191, figures 15–17, 20.  
LEBANON, Nat.[ural] Bridge, n[ea]r Faraya [34.01°N, 35.48°E, 2000 m], from *Apodemus mystacinus*, 30 April 1965, R.E. Lewis.  
HOLOTYPE ♂, USNM 104704.  
REMARKS.—A junior synonym of *Ctenophthalmus (Medi-*

- octenophthalmus costai* Lewis, 1970b, according to Lewis and Lewis, 1989:88.
- limi** Traub, 1972. *Medwayella* [97220].  
Bulletin of the British Museum (Natural History), Zoology, 23(9):242, figures 79–85.
- MALAYSIA, Selangor, Kepong, B[uki]t Lagong [03.12°N, 101.38°E], from *Rhinosciurus laticaudatus*, 25 July 1956, R. Traub.  
HOLOTYPE ♂, USNM 71604.  
REMARKS.—Allotype female on separate slide, from Ampang Reservoir, 13 January 1960.
- \*longiloba** Jordan, 1939a. *Leptopsylla hamifer* [93928].  
Novitates Zoologicae, 41(4):319, figure 270.  
USA, Alaska, One Mile Camp, Valdez Creek trail, 3500' [1067 m], from *Microtus* sp., 23 September 1937, collector not given.  
[HOLO]TYPE ♀, by designation, USNM 104642.  
REMARKS.—Now *Peromyscopsylla hamifer longiloba* (Jordan), and a junior synonym of *Peromyscopsylla ostsibirica* (Scalon, 1936), according to Smit, 1967:101.
- \*lucidus** Baker, 1904. *Ceratophyllus* [90427].  
Proceedings of the United States National Museum, 27(1361):410, 411, plate XX: figures 5–9.  
USA, Colorado [Mineral County], Pagosa P[ea]k, [37.16°N, 107.01°W], 10,000 ft. [3050 m], from Spruce squirrel [*Sciurus fremonti* (= *Tamiasciurus hudsonicus*)], [18]99, C.F. Baker.  
TYPE ♂, labeled LECTOTYPE by Johnson (1961:12), USNM 6915.  
REMARKS.—There are also two females labeled “cotype.” A junior synonym of *Ceratophyllus (Monopsyllus) vison* Baker, 1904, according to Jordan, 1929a:35.
- luma** Traub, 1954a. *Neopsylla* [95410].  
Studies from the Institute for Medical Research, Federation of Malaya, 26(11):190, figures 13–21.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, Kamborangah [06.03°N, 116.32°E], 7800 ft [2379 m], from *Rattus* [= *Sundamys*] *infraluteus*, 27 July 1951, R. Traub.  
HOLOTYPE ♂, USNM 61807.  
REMARKS.—Allotype female with much the same data but Tenompak [05.07°N, 115.57°E], 5500' [1676 m], 18 July 1951.
- lutzi** Baker, 1904. *Pulex* [90408].  
Proceedings of the United States National Museum, 27(1361):380.  
BRAZIL [Sao Paulo State], Sao Paulo [23.33°S, 46.39°W], from *Galictis vittata*, date not given, Dr. [A.] Lutz.  
TYPE ♂ and COTYPE ♀, USNM 6896.  
REMARKS.—Also labeled “genotype.” Now *Rhopalopsyllus lutzi lutzi* (Baker). The two specimens listed above are actually syntypes, and we here designate the male as LECTOTYPE and the female as allolectotype of this species.
- \*lydiae** Lewis, 1970b. *Ctenophthalmus (Ctenophthalmus)* [97008].  
Journal of the Kansas Entomological Society, 43(2):185, figures 1–8.
- TURKEY [Izmir Province], Kemalpaşa, [38.26°N, 27.27°E], from *Apodemus* sp., 15 February 1968, TUSLOG [= Turkish United States Logistics Group] Personnel.  
HOLOTYPE ♂, Allotype ♀, on separate slide but same data, USNM 71000.  
REMARKS.—A junior synonym of *Ctenophthalmus (Ctenophthalmus) fransmiti* Suciú, 1969, according to Lewis, 1974b:162.
- lynx** Baker, 1904. *Pulex* [90411].  
Proceedings of the United States National Museum, 37(1361):383, plate X: figures 7–11, plate XI: figures 1, 2.  
USA, Idaho [Latah County], Moscow, [46.44°N, 117.00°W], from *Lynx can.[adensis]*, May 1898, J.M.] Aldrich.  
TYPE, ♀, USNM 6899.  
REMARKS.—There is also a pair of cotypes, male and female on separate slides. Choice of the female as the type is unfortunate, since Baker clearly used male characters to diagnose the species. We here designate the female type the LECTOTYPE and the male cotype the allolectotype. Now *Euhoplopsyllus glacialis lynx* (Baker).
- macroductyla** Good, 1942b. *Stenistomera* [94227].  
Proceedings of the Entomological Society of Washington, 44(7):135, figures 4, 5.  
USA, Arizona, Mohave County, 21 mi. [34 km] S, St. George, Utah [37.06°N, 113.35°W], 4500' [1371 m], from *Peromyscus eremicus*, Coll. 4-27-38 [27 April 1938], F.J. Gonderman.  
HOLOTYPE ♂, USNM 104644.
- magna** Mardon, 1976. *Papuapsylla* [97618].  
Australian Journal of Zoology, Supplementary Series, 45:19, figures 12, 34, 44, 80, 82.  
[PAPUA] NEW GUINEA, Morobe District, Wau, Bulldog R[oa]d [07.20°S, 146.43°E], 12 mi. [19 km] S, of Edie Creek, 2500 m, from *Rattus* [= *Stenomys*] *niobe*, 15 January 1972, A.B. Mirza.  
HOLOTYPE ♂, USNM 103885.
- magnificus** Lewis, 1974a. *Paradoxopsyllus* [97411].  
Journal of Medical Entomology, 11(1):52, figures 16–20.  
NEPAL [Mustang District], Mustang, 29.12°N, 83.57°E, 12,500' [3810 m], from *Alticola* sp., 13 March 1970, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72543.
- malayensis** Traub, 1950a. *Macrostylophora hastatus* [95069].  
Proceedings of the Entomological Society of Washington, 52(3):127, plate 16: figures 31–34, plate 17: figures 35–38, 41.  
MALAYSIA, Malaya, Cameron H.[igh] L[an]ds, Brinchong Hill, 4500' [1372 m, 04.30°N, 101.34°E], from nest of a tree squirrel, 19 July 1948, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104643.

- REMARKS.—Now *Macrostylophora hastata malayensis* Traub.
- \**mammoth* Chapin, 1921. *Hystrichopsylla* [92133].  
Proceedings of the Entomological Society of Washington, 23(2):25.  
USA, Cal.[ifornia, Mono County], Mammoth [−37.32°N, 119.00°W], from *Aplodontia californica* [= *rufa*], 7 July 1917, A.B. Howell.  
HOLOTYPE ♂, Allotype ♀, USNM 104157.  
REMARKS.—A junior synonym of *Hystrichopsylla schefferi* Chapin, 1919, first noted by Holland, 1949a:8.
- mannae* Traub, 1969. *Muesebeckella* [96939].  
Proceedings of the Entomological Society of Washington, 71(3):379, figures 1–13, 17–19, 21–24, 26, 27.  
[PAPUA] NEW GUINEA, Papua, So.[uthern] Highlands, 40 km NNE Mendi, Mt. Giluwe, Kagaba [06.06°S, 143.54°E], 2800 m, from *Pseudocheirus* sp., 17 September 1968, R. Traub.  
HOLOTYPE ♂, USNM 70748.  
REMARKS.—Allotype female with essentially the same data but 21 December 1967, M. Nadchatram and A.B. Mirza.
- mantissa* Lewis, 1971a. *Neopsylla* [97112].  
Journal of Parasitology, 57(2):406, figures 14–20.  
NEPAL, Solukhumbu District [Sagamatha zone], Lukla Airport [27.41°N, 86.44°E, 3353 m], from *Alticola* sp., 19 November 1968, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71210.
- \**marleanae* Lewis, 1971a. *Neopsylla* [97113].  
Journal of Parasitology, 57(2):408, figures 21–26.  
NEPAL [Rasuwa District], Kyangchin Cheese Factory, Langtang Valley [28.12°N, 85.35°E, 3734 m], from *Rattus* [= *Niviventer*] *fulvescens*, 7 May 1969, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71211.  
REMARKS.—Considered a junior synonym of *Neopsylla stevensi stevensi* Rothschild, 1915 by Liu et al., 1986:373.
- martini* Lewis, 1976. *Ectinorus* (*Ectinorus*) [97628].  
Journal of Parasitology, 62(6):1005, figures 5–9.  
CHILE, Malleco Province, Parque Nahuelbuta, 25 km W Angol, 37.50°S, 72.57°W, from *Aconaemys fuscus*, 31 January 1975, R.E. Martin.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 73735.
- martyoungi* Hubbard, 1954. *Nearctopsylla* (*Beringiopsylla*) [95421].  
Entomological News, 65(7):173.  
USA, Washington, Clallam County [Olympic National Park], Hurricane Ridge [−47.49°N, 123.45°W], from Townsend mole, *Scapanus townsendii*, 12 August 1950, C.A. Hubbard.  
HOLOTYPE ♂, by monotypy, USNM 104645.
- maseri* Lewis, 1971e. *Smitipsylla* [97133].  
Journal of Parasitology, 57(6):1355, figures 1–14.  
NEPAL, Nuwakot District, Phulung Ghyang [28.07°N, 85.22°E], 11,250' [3429 m], from *Petaurista e.[legans]*, 27 May 1967, C.O. Maser.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 71611.
- mathesoni* Jameson, 1950. *Catallagia* [95072].  
Journal of the Kansas Entomological Society, 23(3):94, figure 1A–F.  
USA, California, Plumas County, Quincy [93.56°N, 120.56°W, 1097 m], from *Peromyscus boylii*, 18 February 1949, E.W. Jameson, Jr.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 59371.
- maxima* Mardon, 1976. *Papuapsylla* [97621].  
Australian Journal of Zoology, Supplementary Series, 45:25, figures 15, 39, 54, 65, 96.  
[PAPUA] NEW GUINEA, Sepik District, Lake Louise, NW of Telefomin [−05.08°S, 141.31°E], 8500' [2591 m], from Giant rat, *Anisomys imitator*, 28 February 1970, A.B. Mirza.  
HOLOTYPE ♂, Paratype ♀, on same slide, USNM 103886.
- media* Smit, 1957. *Rhadinopsylla* (*Actenophthalmus*) [95764].  
Bulletin of the British Museum (Natural History), Entomology, 6(2):62, figures 39, 40.  
CANADA, Quebec Province, Mingan [50.19°N, 64.02°W], from Red-backed mouse, *Clethrionomys gapperi*, 31 October 1947, R. Traub.  
HOLOTYPE ♂, USNM 64123.
- megacolpus* Jordan, 1929a. *Ceratophyllus* [92907].  
Novitates Zoologicae, 35(1):33, plate I: figure 12.  
CANADA, British Columbia, Okanagan Landing, [50.12°N, 119.22°W], from *Microtus drummondi* [= *pennsylvanicus*], September 1912, E.A. Chapin.  
HOLOTYPE ♀, by monotypy, USNM 41434.  
REMARKS.—Now *Megabothris* (*Megabothris*) *asio megacolpus* (Jordan).
- mexicana* I. Fox, 1939b. *Foxella* [93912].  
Iowa State College Journal of Science, 13(4):337, plate I, figures 1, 4.  
MEXICO, Nuevo Leon State [Municipio de Galeana, −65 km W Linares], Cerro Potosi [25.54°N, 100.21°W], 11,800 ft. [3599 m], from pocket gopher, 13 July 1938, H. Hoogstraal.  
HOLOTYPE ♀, USNM 104646.  
REMARKS.—There is also a female paratype on a separate slide with the same data as the holotype. The male sex of this species was described by Tipton and Méndez, 1968:200, from a long series collected from the same area from *Thomomys umbrinus* and *Mustela frenata* during April 1964, at elevations from 2900 m to 3810 m. Now *Foxella* (*Afoxella*) *mexicana* I. Fox.
- \**mexicanus* Baker, 1896a. *Typhlopsylla* [89601].  
Canadian Entomologist, 28(3):85.  
MEXICO [Guanajuato State], Guanajuato [21.00°N, 101.16°W], from *Mus* [= *Rattus*] *rattus*, date not given, Dr. [A.L.] Dugès.

- [HOLO]TYPE ♀, by monotypy, USNM 104647.  
 REMARKS.—The slide is labeled *Ctenophyllus mexicanus* Baker. This species was synonymized with *Ctenopsylla musculi* Dugès by Wagner, 1903:152. See Lewis and Lewis, 1989:105 for additional synonymy. A junior synonym of *Leptopsylla* (*Leptopsylla*) *segnis* (Schönherr, 1811), according to Hopkins and Rothschild, 1966:352.
- micropus** Traub, 1950b. *Ctenophthalmus pseudagyrtis* [95027].  
 Fieldiana: Zoology Memoires, 1:73, plate 43: figures 7–9.  
 MEXICO, Coah.[uila State], Sabinas [27.50°N, 101.09°W], from *Neotoma micropus*, January 1944, L. Mazzotti.  
 HOLOTYPE ♂, Allotype ♀, on separate slides but with same data, USNM 104648.  
 REMARKS.—Now *Ctenophthalmus* (*Nearctoctenophthalmus*) *pseudagyrtis micropus* Traub.
- minidoka** Prince and Stark, 1951. *Dactylopsylla* [95122].  
 Pan-Pacific Entomologist, 27(3):136, figures 11–15.  
 USA, Utah, Box Elder County, Raft River Mts. [Minidoka National Forest], 7 mi [11 km] SE Yost, George Cr.[eek, 41.59°N, 113.32°W], 6500' [1981 m], from *Thomomys talpoides*, 11 May 1947, Keith R. Kelson.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104649.  
 REMARKS.—Now *Spicata minidoka* (Prince and Stark).
- minima** Mardon, 1976. *Papuapsylla* [97624].  
 Australian Journal of Zoology, Supplementary Series, 45:30, figures 5, 37, 57, 103.  
 [PAPUA] NEW GUINEA, Morobe District, Bulldog R[oad] [-07.30°S, 146.35°E], Edie Creek, 2150 m, from *Rattus [rattus]*, 7 November 1966, R. Traub and C.[J.] Phillips.  
 HOLOTYPE ♂, USNM 103887.
- \*minutus** C. Fox, 1926. *Hoplopsyllus* [92617].  
 Pan-Pacific Entomologist, 2(4):185, figures 6, 10.  
 USA [California, San Francisco County], San Francisco, [37.45°N, 122.27°W], from *Sylvilagus bachmani*, 1908, "Fox" [penciled in at bottom of label].  
 HOLOTYPE ♀, by monotypy, USNM 28922.  
 REMARKS.—A junior synonym of *Euhoplopsyllus glacialis foxi* (Ewing, 1924), according to Kohls, 1939:2020.
- mojica** Tipton and Méndez, 1966. *Kohlsia* [96619].  
*Ectoparasites of Panama*, Wenzel and Tipton, editors, page 314, plate 81: figures 1–5b, plate 82: figures 1–5.  
 PANAMA, Bocas del Toro [48 km W Almirante, near Río Changena], Rancho Mojica [-09.02°N, 82.41°W, 1676 m], from *Peromyscus nudipes* [= *mexicanus*], 13 September 1961, [C.M.] Keenan and [V.J.] Tipton.  
 HOLOTYPE ♂, Allotype ♀, on separate slides but with same data, USNM 104650.
- monositus** Barnes and Radovsky, 1969. *Tunga* [96901].  
 Journal of Medical Entomology, 6(1):20, figures 1–33.  
 MEXICO, Baja California [Norte], San Quintin [Bay, 1.5 km E coast, 12 km N, and 4 km W Cape San Quintin, 30.27°N, 116.02°W], from *Peromyscus maniculatus*, 16 February 1965, F.J. Radovsky, R.C. Banks, and J. Brooks.  
 HOLOTYPE ♀, Allotype ♂, on separate slides, USNM 70738.  
 REMARKS.—Now *Tunga* (*Tunga*) *monositus* Barnes and Radovsky.
- montanus** Baker, 1895c. *Pulex* [89509].  
 Canadian Entomologist, 27(5):132.  
 USA, Colorado [Larimer County], hills near Fort Collins, from Spotted gray squirrel [= *Sciurus aberti*], 9-11-92 [11 September 1892], Stannard.  
 TYPE ♂, USNM 7240.  
 REMARKS.—Two slides, one male and one female, both labeled "type." In view of the provenance of these specimens, and the fact that the male is the diagnostic sex, we designate it the LECTOTYPE of the species. The female we designate an allelectotype. Now *Oropsylla* (*Diamanus*) *montana* (Baker).
- montanus** Collins, 1936. *Anomiopsyllus* [93618].  
 Entomological News, 47(5):129, figures 1, 2.  
 USA, Montana [Ravalli County], Canyon Creek W of Hamilton [-46.15°N, 114.15°W], from owl [= *Bubo virginianus*], 8 November 1922 [L.H. Dunn and R.R. Parker].  
 HOLOTYPE ♂, Allotype ♀, on separate slides but with same data, USNM 104651.
- monticola** Prince, 1945. *Dactylopsylla* [94503].  
 Canadian Entomologist, 77(1):17, figure 7.  
 USA, Nev.[ada], Ormsby Co.[unty], 21 km W Carson City, ~39.10°N, 119.55°W, from *Thomomys monticola*, Coll. 8-9-37 [8 September 1937, USPHS, personnel], A-183.  
 HOLOTYPE ♀, USNM 104652.  
 REMARKS.—Now *Spicata monticola* (Prince).
- moorei** Hubbard, 1949c. *Dactylopsylla* [94924].  
 Bulletin of the Southern California Academy of Sciences, 48(2):47, plate 6.  
 USA, Washington, Wahkiakum County, [19 km NE] Cathlamet [46.13°N, 123.22°W], from Pocket gopher, *Thomomys* sp. [= *talpoides*], 27 May 1949, C.A. Hubbard.  
 HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104653.  
 REMARKS.—Now *Spicata moorei moorei* (Hubbard).
- morlani** Eads and Campos, 1982. *Phalacrocylla* [98217].  
 Great Basin Naturalist, 42(2):241, figures 1A,B, 2C–E.  
 USA, New Mexico [Santa Fe County], Santa Fe [35.41°N, 105.57°W], 10,000 ft [-3050 m], from *Ochotona princeps*, 10 October 1958, H.B. Morlan.  
 HOLOTYPE ♂, USNM 104868.
- multidentatus** C. Fox, 1909a. *Ceratophyllus* [90905].  
 Entomological News, 20(3):107, 3 unnumbered figures.  
 USA [California, San Francisco County], San Francisco, [37.45°N, 122.27°W], from *Microtus californicus*, no date or collector.

- LECTOTYPE ♂, USNM 13129, designated by Hopkins and Rothschild, 1962:96.
- REMARKS.—Now *Atyphloceras multidentatus multidentatus* (C. Fox). There is also a female on a separate slide bearing the date of 1908 and “nest of woodrat (*Neotoma*).”
- multidenticulatus** Morlan and Prince, 1954. *Rhadinopsylla* (*Actenophthalmus*) [95440].  
Texas Reports on Biology and Medicine, 12(4):1041, plate I: figures 1, 2, 4, 6, 7, plate II: figures 8–11.  
USA, New Mexico, Santa Fe County [Santa Fe] airport, [–35.41°N, 105.57°W], from *Onychomys leucogaster*, 19 November 1952, H.B. Morlan.  
HOLOTYPE ♂, USNM 62395.  
REMARKS.—Also an allotype female with same data but 22 November 1951. Now *Rhadinopsylla* (*Actenophthalmus*) *multidenticulata* Morlan and Prince.
- multispinosus** Baker, 1898. *Pulex* [89821].  
Journal of the New York Entomological Society, 6(1):54.  
USA, North Carolina [Wake County], Raleigh [35.46°N, 78.39°W], from *Lepus sylvaticus* [= *Sylvilagus floridanus*], 7 December [18]94, H.H. and C.G. Brimley.  
[HOLO]TYPE, ♂, USNM 104654, by monotypy.  
REMARKS.—Now *Odontopsyllus multispinosus* (Baker).  
There is also another slide, determined by I. Fox, 1938, and labeled allotype female, bearing the following data: Iowa [Allamakee County], Waukon, from *Blarina*, 12 November 1937, T. Scott, #98. This specimen has no type status.
- mustangensis** Lewis, 1974a. *Paradoxopsyllus* [97412].  
Journal of Medical Entomology, 11(1):56, figures 21–25.  
NEPAL, Mustang District, Kalapani [28.39°N, 83.37°E, 2470 m], from *Rattus* [= *Melomys*] *rattooides*, 22 February 1970, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72544.
- mygala** Lewis, 1971b. *Citellophilus* [97122].  
Journal of Parasitology, 57(4):763, figures 7–11.  
NEPAL, Sindhu-Palchok District, Dhukphu, ±12 mi [–19 km] N, Tarke Gyang [28.06°N, 85.35°E, 3969 m], from *Alticola roylei*, 13 August 1969, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71510.  
REMARKS.—Now *Callopsylla* (*Callopsylla*) *mygala* (Lewis).
- myodosus** Traub and Barrera, 1966. *Ctenophthalmus* (*Alloctenus*) *expansus* [96615].  
Journal of Medical Entomology, 3(2):138, figures 23–27, 29, 31, 33.  
MEXICO, Jalisco State, Nevado de Colima, vicinity of La Joya [19.32°N, 103.36°W], 3354 m, from *Cryptotis* sp., 28 May 1965, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69705.
- nadi** Traub, 1969. *Muesebeckella* [96940].  
Proceedings of the Entomological Society of Washington, 71(3):389, figures 14–16, 18, 20, 25, 28.  
[PAPUA] NEW GUINEA, W. Sepik District, Oksapmin, [Strickland River near N, border of W district of Papua, –05.47°S, 142.25°E], 1900 m, from *Pseudocheirus* sp., 24 October 1968, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 70747.
- neali** Traub, 1953a. *Hollandipsylla* [95339].  
Journal of the Washington Academy of Sciences, 43(11):348, figures 1–11.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, Tenompok [06.03°N, 116.32°E], elev. 5,000' [1524 m], from Sm.[all] flying squirrel, *Hylopetes sagitta* [= *lepidus*], 31 July 1951, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104655.
- \*nearctica** Holland and Loshbaugh, 1958. *Ornithophaga* [95845].  
Canadian Entomologist, 90(8):491, figures 6–12.  
USA, Utah, Tooele County, Stansbury Mts., West Hickman Canyon [–40.20°N, 114.00°W], from Downy woodpecker, *Dendrocopos* [= *Picooides*] *pubescens leucurus*, 17 December 1953, R.D. Porter.  
HOLOTYPE ♂, USNM 104656.  
REMARKS.—A junior synonym of *Ornithophaga anomala anomala* Mikulin, 1957, according to Smit and Wright, 1978a:37.
- neglectus** Smit, 1958a. *Ceratophyllus affinis* [95820].  
Proceedings of the United States National Museum, 108(3394):51, figures 1, 2, 5–10.  
USA, Utah [Cache County], Smithfield [41.50°N, 111.50°W], from Barn swallow nest [= *Hirundo rustica*], 6 June 1951, Ted Tibbetts.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 63891.  
REMARKS.—Now *Ceratophyllus* (*Ceratophyllus*) *affinis neglectus* Smit.
- neomexicana** Prince, 1945. *Dactylopsylla* [94502].  
Canadian Entomologist, 77(1):15, figures 1, 2.  
USA, N.[ew] M.[exico], San Miguel Co.[unty, 32 km S, Las Vegas, 35.36°N, 105.15°W], from *Thomomys fulvus* [= *bottae*], Coll. 5/28/43 [28 May 1943, USPHS, personnel], 43B54.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104657.
- neotomae** I. Fox, 1940b. *Amphipsylla* [94036].  
Journal of the Washington Academy of Sciences, 30(6):273, figure 3.  
USA, California, Merced County, Dos Palos [36.59°N, 120.39°W], from *Neotoma desertorum* [= *lepidae*], March 1934, H.S. Gentry.  
HOLOTYPE ♂, USNM 54012.  
REMARKS.—Now *Traubella neotomae* (I. Fox), after Prince et al. (1976:162). There is also a slide bearing a female labeled allotype, with the following data: CA: Riverside Co.[unty] Carrizo Creek, from *Spilogale gracilis* [= *putorius*], 1/13/42 [13 January 1942], K.E. Stager. This specimen has no type status.

- nepalensis** Lewis, 1968. *Ancistropsylla* [96821].  
Journal of Parasitology, 54(6):1228, figures 1–8.  
NEPAL [Katmandu District], Gorkana, King's Forest, 7 mi [11 km] N, Katmandu [27.44°N, 85.24°E], 4210 ft. [1284 m], from *Axis axis*, 24 November 1967, R.[M.] Mitchell.  
HOLOTYPE ♂, Allotype ♀, USNM 70550.
- nepali** Traub, 1950a. *Macrostylophora hastatus* [95070].  
Proceedings of the Entomological Society of Washington, 52(3):131, plate 18: figures 42, 44.  
NEPAL (E.) [Sankhuwasabha Province, Dhankuta District], Dhankuta [25.59°N, 87.20°E], from *Callosciurus* sp., 14 February 1949, D.[S.] Ripley, H. Weaver and R. Mack.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104658.  
REMARKS.—Now *Macrostylophora hastata nepali* Traub.
- nepali** Lewis, 1971a. *Paraneopsylla ioffi* [97110].  
Journal of Parasitology, 57(2):401, figures 1–6.  
NEPAL, Bagmati [Zone], Nuwakot [District], Gosainkund Lake [28.03°N, 85.25°E, 4191 m], from *Ochotona roylei*, 12 September 1968, R.[M.] Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71209.
- \*nesicola** Traub and Evans, 1967b. *Palaeopsylla remota* [96721].  
Pacific Insects, 9(4):622, figures 33, 35, 37–41, 43, 79.  
TAIWAN, Nan Tou Hsien [23.50°N, 121.00°E], Wu She, 3200' [985 m], from *Anourosorex* sp. [= *squamipes*], 21 January 1962, C.[M.] Yoshimoto and M.[C.] Thompson.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69713.  
REMARKS.—A junior synonym of *Palaeopsylla remota* Jordan, 1929, according to Smit and Wright, 1978a:41.
- neweyi** Holland and Loshbaugh, 1958. *Catallagia* [95844].  
Canadian Entomologist, 90(8):486, figures 1–5.  
USA, Utah, Tooele County, 10 mi [16 km] E Gold Hill, [40.10°N, 113.50°W], from *Peromyscus maniculatus*, 7 October 1953, E.A. Shippee.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 64660.
- nidi** Williams and Hoff, 1951. *Meringis* [95102].  
Proceedings of the United States National Museum, 101(3278):312, figure 66h–j.  
USA, New Mexico [Bernalillo County], 5 mi (8 km) E] Albuquerque [–34.04°N, 106.24°W], from *Dipodomys spectabilis* nest, 6 March 1948, Lelia [A.] Williams.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 59337.
- nidicola** Jellison, 1945. *Conorhinopsylla* [94507].  
Journal of the Kansas Entomological Society, 18(3):109, 3 unnumbered figures.  
USA, Kansas [Douglas County, 10 km N] Lawrence, [39.04°N, 95.15°W], from *Neotoma [floridana]* nest, 11 November 1944, R.H. Beamer.  
[HOLO]TYPE ♂, Allotype ♀, USNM 104659.
- nidiophilus** Tipton and Méndez, 1968. *Anomiopsyllus* [96807].  
Pacific Insects, 10(1):179, figures 1–6.  
MEXICO, Nuevo Leon State [Municipio de Galeana], Cerro Potosi [–65 km W Linares, 25.54°N, 100.21°W], elev. 11,000' [–3353 m], from rodent nest [probably *Neotoma albigula*], 24 April 1964, V.J. Tipton et al.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 69698.
- nippon** Jameson and Kumada, 1953. *Palaeopsylla* [95306].  
Journal of Parasitology, 39(4):456, plate 1: figures A–D, plate 2: figures A–G.  
JAPAN [Honshu Island], Kyoto Prefecture, Ōhara [8.5 km N Kyoto, 35.03°N, 135.45°E], from *Urotrichus* [= *tapaloides*], 7 March 1952, E.W. Jameson, Jr.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 61834.  
REMARKS.—Spelled *nipponica* on holotype slide and *nippon* on allotype slide and in the literature. Female dated 6 March 1952.
- nitidus** Johnson, 1957b. *Polygenis* [95744].  
Memoirs of the Entomological Society of Washington, 5:165, plate 89: figures 3, 4.  
BRAZIL, Bahia (Baía), Ilhéus, Faz, Ribierao do Fortuna, [14.50°S, 39.06°W], from *Didelphis marsupialis*, 1944, collector not given.  
HOLOTYPE ♀, USNM 63371.  
REMARKS.—Now *Polygenis (Hechtiella) nitidus* Johnson.
- nivalis** Barrera and Traub, 1967. *Phalacropsylla* [96701].  
Anales de la Escuela Nacional de Ciencias Biológicas, Mexico, 14:35.  
[MEXICO, Mexico State, Mirador del Poeta, N slope Mt.] Popocatepetl, 300 m, SW Tlamacas [–19.02°N, 98.38°W], 3900 m alt., from *Neotoma [mexicana]*, 19 September 1963, colleccion Alfredo Barrera.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69715.
- novomexicanensis** Williams and Hoff, 1951. *Anomiopsyllus* [95101].  
Proceedings of the United States National Museum, 101(3278):307, figure 66a–d.  
USA, New Mexico [Bernalillo County], [6 mi. (10 km) E] Albuquerque [foothills of Sandia Mts, –35.05°N, 106.30°W], from *Neotoma m.[icropus]* nest, 10 October 1948, L.[elia A.] Williams.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 59336.
- nudata** Baker, 1898. *Typhlopsylla* [89823].  
Journal of the New York Entomological Society, 6(1):56.  
USA, Arizona [Pima County], Tucson [32.15°N, 110.57°W], from inner nest of *Neotoma albigula*, 23 December 1897, [H.G.] Hubbard.  
Two "COTYPE" ♀♀, on separate slides, USNM 104660.  
REMARKS.—One of these cotypes is here designated the LECTOTYPE. Now *Anomiopsyllus nudatus nudatus* (Baker).



- nuditenacula** Prince, 1945. *Dactylopsylla (Foxelloides)* [94504].  
Canadian Entomologist, 77(1):17, figures 3, 4.  
USA, Mont.[ana], Gallatin Co.[unty, 14.5 km NW West Yellowstone, ~44.40°N, 111.07°W], from *Mustela arizonensis* [= *frenata*], Coll. 5/24/38 [24 May 1938, USPHS, personnel], D-539.  
HOLOTYPE ♂, Allotype ♀, USNM 104661.  
REMARKS.—Now *Spicata nuditenacula* (Prince).
- nungui** Schramm and Lewis, 1987. *Plocopsylla* [98706].  
Journal of Medical Entomology, 24(4):401, figures 6–10.  
ECUADOR, Napo Pr.[ovince], [Napo-Pastaza Department], 1.4 km E Papallacta [00.24°S, 78.07°W, 3040 m], from *Thomasomys erro* [= *cinereiventer*], March–May 1980, R.S. Voss.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 103888.
- oaxacae** Barnes, 1965. *Anomiopsyllus* [96525].  
Pan-Pacific Entomologist, 41(4):278, figure 3.  
MEXICO, Oaxaca State, 2 mi. [3 km] SE Matatlán, [16.52°N, 96.23°W], from *Baiomys musculus*, 24 July 1953, R.H. Baker.  
HOLOTYPE ♂, USNM 68226.
- \*obscurus** Holland, 1949b. *Megabothris* [94937].  
*The Siphonaptera of Canada*, page 162, plate XXXVII: figures 293, 294.  
USA, Washington, Yakima County, sine loco, from *Speotyto* sp. [= *cunicularia*] burrow, June 1939 [W.L. Jellison].  
HOLOTYPE ♂, USNM 104662.  
REMARKS.—A junior synonym of *Megabothris (Amegabothris) clantoni* Hubbard, 1949a, according to Holland, 1952a:70.
- occulta** Traub, 1963a. *Hopkinsipsylla* [96303].  
Proceedings of the Entomological Society of Washington, 65(1):4, figures 1–17.  
EGYPT, West.[ern] Desert Province, 35 km W of Mersa Matrûh [~31.22°N, 26.55°E], from *Allactaga tetradactyla*, 12 February 1960, H. Hoogstraal.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 66656.  
REMARKS.—Now *Hopkinsipsylla occulta occulta* Traub.
- \*oculatus** Baker, 1904. *Ceratophyllus* [90417].  
Proceedings of the United States National Museum, 27(1361):396, plate XIX: figures 10–14.  
USA, District of Columbia, Washington [38.55°N, 77.00°W], from mink [= *Mustela vison*], A.A. Harsall.  
[HOLO]TYPE ♂, USNM 6905, by monotypy.  
REMARKS.—Said to be a junior synonym of *Nosopsyllus (Nosopsyllus) fasciatus* (Bosc, 1800), by Jordan, 1929a:33.
- omissa** Prince, 1945. *Foxella ignota* [94505].  
Canadian Entomologist, 77(1):18, figures 5, 6.  
USA, Ariz.[ona], Coconino Co.[unty, 1 mile (2 km) W Cosnino, untraced], from *Mustela arizonensis* [= *frenata*], 4-25-38 [25 April 1938, USPHS Personnel], C-949.  
HOLOTYPE ♂, Allotype ♀, USNM 104909.
- \*opadus** Jordan, 1938. *Monopsyllus exilis* [93821].  
Novitates Zoologicae, 41(2):121, figure 70d,e.  
USA, Arizona, Yavapai County, sine loco, from *Dipodomys odii* [= *ordii*], 10 April 1937.  
LECTOTYPE ♂, USNM 104663.  
REMARKS.—In this instance Jordan selected the single male from the type series as the type. Selection of a lectotype was redundant but one was selected and the name synonymized by Johnson, 1961:13. A junior synonym of *Monopsyllus* [= *Pleochaetis*] *exilis* (Jordan, 1937a), according to Johnson, 1961:13.
- orama** Smit, 1957. *Rhadinopsylla (Actenophthalmus)* [95762].  
Bulletin of the British Museum (Natural History), Entomology, 6(2):55, figures 23–28, 75.  
USA, Virginia, Lee County, Jonesville area [~36.41°N, 83.06°W], from *Microtus pennsylvanicus* nest, 25 December 1947, D.W. Pfitzer.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 64122.
- \*orectus** Jordan, 1938. *Megabothris asio* [93823].  
Novitates Zoologicae, 41(2):122, figures 72, 73.  
USA, Montana, Ravalli County, sine loco, from mouse? nest, October 1935 [R.R. Parker].  
TYPE ♂, USNM 104664.  
REMARKS.—Jordan did not designate a type from the series of two males and two females, other than to state that the type was a male. Technically the two males are syntypes, and we here designate one of them the LECTOTYPE of this taxon. A junior synonym of *Megabothris asio* (Baker, 1904), according to Holland, 1950:128.
- oregona** Hubbard, 1954. *Dactylopsylla moorei* [95417].  
Entomological News, 65(7):170, figure unnumbered.  
USA, Oregon, Lincoln County, Devil's Lake [~44.57°N, 124.00°W], from Pocket gopher, *Thomomys hesperus* [= *mazama*], 8 September 1949, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, USNM 104665.  
REMARKS.—Now *Spicata moorei oregona* (Hubbard).
- oregonensis** Good and Prince, 1939. *Opisocrostis* [93922].  
Public Health Reports, Washington, 54(37):1687, figures 1, 2.  
USA, Oreg.[on], Baker Co.[unty, 13 km S, Baker, 44.46°N, 117.50°W], from *Citellus oregonus* [= *Spermophilus beldingi*], Coll. 4/29/38 [29 April 1938, E.C. Parkinson et al.], O-767.  
[HOLO]TYPE ♀, Allotype ♂, USNM 104666.  
REMARKS.—Now *Oropsylla (Hubbardipsylla) oregonensis* (Good and Prince).
- oregonensis** Ewing, 1938. *Trichopsyllodes* [93804].  
Proceedings of the Entomological Society of Washington, 40(4):94.  
USA, Oregon [Lincoln County], Delake [= Devil's Lake,

- 44.57°N, 124.00°W], from Mt. Beaver, *Aplodontia r.[ufa]*, 24 June 1933, S.G. Jewett, Jr.  
**HOLOTYPE** ♂, USNM 51880.  
**REMARKS.**—There is an additional slide bearing a male and female and a USNM Type number 51880, with the following data: on Mountain beaver, Great Horn Cr[ee]k, Col. N.F., W.A., Andy Roth, coll. #19, March 26, 1936. These evidently are paratypes since they are mentioned as part of the type series.
- oregonensis** Ewing, 1940. *Paratyphloceras* [94028].  
 Proceedings of the Biological Society of Washington, 53:35.  
 USA, Oregon [Lane County], Mercer Lake [~44.03°N, 124.05°W], from "mink" [= *Mustela vison*], 12 March 1933, H.H. Stage.  
**HOLOTYPE** ♀, by designation, USNM 54000.  
**REMARKS.**—There is another slide that bears a pair of this species from Oregon, Multnomah Co.[untly], Larch Mountain, 2800' [853 m] from Mountain beaver, *Aplodontia r.[ufa]*, 1 May 1951, C.A. Hubbard. The male is designated the allotype, but it has no type status.
- \*oregonensis** Hubbard, 1947. *Megarhthroglossus procus* [94705].  
*Fleas of Western North America*, page 299, figure 172.  
 USA, Oregon [Hood River County], Parkdale, [45.31°N, 121.36°W], from Pine squirrel, *Sciurus d. cascadenis* [= *Tamiasciurus douglasi*], 11 December 1938, C.A. Hubbard.  
**LECTOTYPE** ♂, USNM 104667.  
**REMARKS.**—The slide bears one male and two females that are labeled **HOLOTYPE** ♂, allotype ♀/**LECTOTYPE** ♂. Hopkins and Rothschild, 1962:371, indicated that Hubbard had not designated a holotype and they selected the male as the lectotype. This is a junior synonym of *Megarhthroglossus procus* Jordan and Rothschild, 1915, according to Hopkins, 1952:365.
- oregonensis** Lewis and Maser, 1978. *Phalacropsylla* [97813].  
 Journal of Parasitology, 64(1):147, figures 1, 2.  
 USA, Oregon, Malheur County, Succor Creek State Park, [~43.28°N, 117.08°W], from *Neotoma lepida*, 15 May 1975, C.O. Maser.  
**HOLOTYPE** ♂, Allotype ♀, on separate slides, USNM 75247.  
**REMARKS.**— Allotype female with essentially the same data but from *Peromyscus maniculatus*.
- oribatus** Lewis, 1974a. *Paradoxopsyllus* [97413].  
 Journal of Medical Entomology, 11(1):58, figures 26–30.  
 NEPAL, Mustang District, Muktinath [28.48°N, 83.52°E], 11,750' [3600 m], from *Apodemus* sp., 26 February 1970, Mani K. Lama.  
**HOLOTYPE** ♂, Allotype ♀, on same slide, USNM 72545.
- orientalis** Lewis, Kulkarni, and Bhat, 1972. *Ctenophyllus* (*Conothobius*) [97210].  
 Journal of Parasitology, 58(5):999, figures 1–7.
- INDIA, U.[ttar] P.[radesh], Chamoli, Banikund [30.25°N, 79.21°E, ~2438 m], from Mouse hare [= *Ochotona roylei*], 11 May 1969, H.R. Bhat.  
**HOLOTYPE** ♂, Allotype ♀, on separate slides, USNM 72244.  
**REMARKS.**—Now *Aconothobius orientalis* (Lewis, Kulkarni, and Bhat).
- ornata** C. Fox, 1908. *Corypsylla* [90836].  
 Entomological News, 19(10):452, figures unnumbered.  
 USA [California, San Francisco County], San Francisco, [37.45°N, 122.27°W], from *Scapanus californicus* [= *latimanus*], 1908 [C. Fox].  
**LECTOTYPE** ♂, USNM 13132.  
**REMARKS.**—There is also a female on this slide which we here designate the allolectotype. Lectotype designated in Hopkins and Rothschild, 1962:414 (footnote).
- \*ornatus** I. Fox, 1940a. *Opisocrostis* [94021].  
 Proceedings of the Entomological Society of Washington, 42(3):67, plate 9: figure 8.  
 USA, Colorado, Saguache County, sine loco, from *Cynomys gunnisoni*, 26 June 1926, S.C. McCampbell.  
**HOLOTYPE** ♂, USNM 53588.  
**REMARKS.**—There are also two females on the same slide but no allotype was designated. A junior synonym of *Oropsylla* (*Opisocrostis*) *tuberculata cynomuris* (Jellison, 1939), according to Jellison, 1947:65.
- orthodactylus** Holland, 1969. *Orthopsylloides orthodactylus* [96920].  
 Memoirs of the Entomological Society of Canada, 61:36, figures 77–80, 85, 89, 200.  
 [PAPUA] NEW GUINEA [= INDONESIA, Irian Jaya], Fak Fak [02.55°S, 132.17°E], from *Rattus* (sp. x) "bomberi?," 6 June 1959, T.C. Maa.  
**HOLOTYPE** ♂, USNM 104668.  
**REMARKS.**— Allotype female with essentially the same data but 3 June 1959.
- owiensis** Holland, 1969. *Orthopsylloides orthodactylus* [96921].  
 Memoirs of the Entomological Society of Canada, 61:36, figure 83.  
 DUTCH NEW GUINEA [= INDONESIA, Irian Jaya], Owi Island (Padeaido Eiln) [~01.15°S, 136.28°E], from *Rattus* sp., 16 August 1944, G.M. Kohls.  
**HOLOTYPE** ♂, Allotype ♀, on separate slides, USNM 104669.
- pachnopoata** Traub, 1977. *Tiflovia* [97737].  
 Journal of Medical Entomology, 13(6):660, figures 1–17, 21, 23, 24, 32.  
 [PAPUA] NEW GUINEA, Papua, Southern Highlands, 40 km NNE Giluwe, Mt. Giluwe [06.06°S, 143.54°E], 3200 m, from *Pogonomelomys* [= *Coccymys*] *ruemmleri*, 23 September 1968, R. Traub.  
**HOLOTYPE** ♂, USNM 73842.

- REMARKS.—Allotype female with similar data but Mt. Giluwe, above Kagaba.
- pacifica** Hubbard, 1943c. *Dactylopsylla (Foxelloides)* [94307]. Pacific University Bulletin, 40(2):4, figure unnumbered. USA, Oregon, Lincoln County, Devil's Lake [~44.57°N, 124.00°W], from Pocket gopher, *Thomomys hesperus* [= *mazama*], 26 June 1943, C.A. Hubbard. HOLOTYPE ♂, Allotype ♀, on same slide, USNM 57085. REMARKS.—Now *Spicata pacifica* (Hubbard).
- pagea** Lewis, 1971a. *Neopsylla* [97111]. Journal of Parasitology, 57(2):402, figures 7–13. NEPAL, Solukhumbu District, Khumjung, 2 mi [3 km] NE Namche Bazar [27.49°N, 86.44°E, 3673 m], from *Alticola* sp., 8 November 1968, R.M. Mitchell. HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 71212.
- pagiana** Lewis, 1969. *Stenischia* [96938]. Journal of Parasitology, 55(4):872, figures 1–6. NEPAL, Helembu Dist.[rict], Tarke Gyang, 36 mi [58 km] N, Katmandu [28.12°N, 85.34°E], 7975' [2430 m], from *Soriculus nigrescens*, 10 November 1967, R.M. Mitchell. HOLOTYPE ♂, USNM 104726.
- pandorae** Jellison, 1937. *Thrassis* [93703]. Public Health Reports, Washington, 52(23):726, figures 1, 2, 4. USA, Montana, Beaverhead County [Poindexter and Orr Ranch, untraced], from Richardson ground squirrel, [*Citellus* (= *Spermophilus richardsonii*), 24 July 1935, [W.L. Jellison]. [HOLO]TYPE ♂, Allotype ♀, on separate slides, USNM 104670. REMARKS.—Now *Thrassis pandorae pandorae* Jellison.
- paraphaeopus** Lewis, 1974a. *Paradoxopsyllus* [97414]. Journal of Medical Entomology, 11(1):58, figures 31, 32. NEPAL, Mustang District, Mustang [29.12°N, 83.57°E], ±12,000' [= 3600 m], from *Rattus* sp., 12 March 1970, M.K. Lama. HOLOTYPE ♀, USNM 72546.
- parkeri** Jordan, 1937a. *Meringis* [93710]. Novitates Zoologicae, 40(2):269, figures 54, 55. USA, Montana [Powder River County], Powderville, [45.43°N, 105.07°W], from Kangaroo rat, *Dipodomys* sp., 1916, R.R. P.[arker]. TYPE ♂, USNM 104671. REMARKS.—No type was designated by Jordan and the type listed here was one of four male and two female syntypes. We here designate it the LECTOTYPE of the species.
- pearsoni** Johnson, 1957b. *Dysmicus* [95736]. Memoirs of the Entomological Society of Washington, 5:137, plate 65: figures 1–6. PERU, Puno Department, 4 km NW Pomata [16.16°S, 69.16°W], 12,500' [4020 m], from *Phyllotis* sp., 5 January 1952, A.K. Pearson. HOLOTYPE ♂, USNM 63367. REMARKS.—Now *Ectinorus (Ectinorus) pearsoni* (Johnson).
- peninsularis** Lewis, 1993. *Thrassis*. Journal of the New York Entomological Society, 101(4):536–541. MEXICO, Baja California [Norte], 9 km NW Rancho Santa Inez, 29.46°N, 115.09°W, from *Ammospermophilus leucurus*, 15 January 1984, E. Yensen. HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104870.
- pentachaeta** Prince and Stark, 1951. *Dactylopsylla* [95120]. Pan-Pacific Entomologist, 27(3):131, figures 6–10. USA, Nebraska, Dundy Co.[unty], 20 mi [32 km] N [8 km E] Benkelman (Sand Hills) [Louich Ranch, 40.02°N, 101.31°W], 3200 ft [976 m], from *Mustela* sp., Coll. 6-12-45 [12 June 1945, H. Owen and D. Campau]. HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104672.
- percernis** Eads and Menzies, 1949. *Dactylopsylla* [94910]. Journal of Parasitology, 35(2):171, figures 1–7. USA, Texas, Presidio County, sine loco, from *Cratogeomys* [= *Pappogeomys castanops*], 9 June 1948, J.L. Reagen. HOLOTYPE ♂, USNM 104673. REMARKS.—Allotype female with same data but 13 May 1948.
- peregrinata** Traub, 1972. *Medwayella robinsoni* [97215]. Bulletin of the British Museum (Natural History), Zoology, 23(9):234, figures 53, 57, 60, 61. [MALAYSIA, West] Sarawak, Pueh [~01.35°N, 11.16°E], from *Callosciurus notatus*, 3 June 1958, T.C. Maa. HOLOTYPE ♂, USNM 71599. REMARKS.—Allotype female with similar data but: "(3rd Division) Bruit Isle, Rajang Delta, 22 July 1958."
- \*peromysci** Stewart, 1928. *Ceratophyllus* [92819]. Canadian Entomologist, 60(6):148, figures 1, 2. USA, Colorado, Montezuma County, Cortez [37.22°N, 108.36°W], from *Peromyscus* sp., 23 May 1926, S.C. McCambell. HOLOTYPE ♀, said to be in the USNM but not found. Johnson (1961:35) says that the two females upon which this name is based are apparently lost. REMARKS.—Said to be a junior synonym of *Aetheca wagneri* (Baker, 1904), according to Stewart, 1930a:152.
- \*peromyscus** Dunn, in Dunn and Parker, 1923. *Micropsylla* [92339]. Public Health Reports, Washington, 38(883):2767. USA, Montana, Ravalli County, Lolo Canyon, W of Woodman [45.08°N, 109.10°W], from *Peromyscus maniculatus*, [6 May 1922], collector not given. HOLOTYPE ♂, by designation, USNM 56931. REMARKS.—A junior synonym of *Rhadinopsylla (Micropsylla) sectilis sectilis* Jordan and Rothschild, 1923, according to Jordan, 1937a:270.

- perpinnatus** Baker, 1904. *Ceratophyllus* [90413].  
 Proceedings of the United States National Museum, 27(1361):391, plate XIII: figures 1–6.  
 [CANADA, British Columbia], Queen Charlotte Islands, [Graham Island, Masset, 54.01°N, 132.09°W], host and date not given, J.H. Keen.  
 [HOLO]TYPE ♂, USNM 6901, by monotypy.  
 REMARKS.—Now *Dasysyllus* (*Dasysyllus*) *gallinulae perpinnatus* (Baker).
- perplexa** Mardon, 1976. *Papuapsylla* [97616].  
 Australian Journal of Zoology, Supplementary Series, 45:17, figures 10, 32, 49, 79, 89.  
 Terr. of N. G. [= PAPUA NEW GUINEA], Sepik District, Lake Louise, NW of Telefomin [–05.06°S, 141.29°E], Elev. 8500' [2598 m], from *Rattus* [= *Stenomys*] *niobe*, 27 February 1970, A.B. Mirza.  
 HOLOTYPE ♂, USNM 103889.
- perplexus** Tipton and Machado-Allison, 1972. *Ctenidiosomus* [97227].  
 Brigham Young University Science Bulletin, Biological Series, 17(6):41, figures 30–33.  
 VENEZUELA, Trujillo Province, 14 km E Trujillo, near Misisi [–09.20°N, 70.15°W], 2210 m, from *Rhipidomys venustus*, 26 January 1966, Peterson team.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 72536.
- petiolatus** Baker, 1904. *Ceratophyllus* [90431].  
 Proceedings of the United States National Museum, 27(1361):415, plate XVIII: figures 7–11.  
 USA, Idaho [Latah County], Moscow [46.44°N, 117.00°W], from *Lynx canadensis*, [J.M.] Aldrich.  
 [HOLO]TYPE ♂, USNM 6919, by monotypy.  
 REMARKS.—Now *Thrassis petiolatus* (Baker).
- pfitzeri** Benton, 1981. *Nearctopsylla* (*Beringiopsylla*) [98101].  
 Journal of Parasitology, 66(5):841, figures 1, 2.  
 USA, Tennessee, Carter County [Carver's Gap], Roan Mt. [36.06°N, 82.06°W], 5000 ft. [1525 m], from *Blarina brevicauda*, December 1950, C.H. Conaway.  
 HOLOTYPE ♀, USNM 76342.
- phangi** Traub, 1972. *Medwayella phangi* [97218].  
 Bulletin of the British Museum (Natural History), Zoology, 23(9):237, figures 66, 68–74, 76, 77.  
 MALAYSIA, Malaya, Selangor, Subang [–03.08°N, 101.30°E, 152 m], from *Sundasciurus tenuis*, 30 October 1957, R. Traub.  
 HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71602.
- ponera** Traub and Johnson, 1952b. *Stenoponia* [95207].  
 Journal of Parasitology, 38(1):12, figures 12–21.  
 USA, New Mexico, Grant County, 7 mi [11 km] N Pinos Altos, Mt. Forest [–32.52°N, 108.14°W], 6900' [2400 m], from *Peromyscus boylii*, 12 October 1950 [USPHS team].  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 61294.
- \*powersi** C. Fox, 1926. *Hoplopsyllus* [92616].  
 Pan-Pacific Entomologist, 2(4):184, figures 8, 11.  
 USA, California [Los Angeles County], Los Angeles, [34.00°N, 118.15°W], from *Sylvilagus bachmani* [changed to *audubonii* in the reprint], 1925, C. F.[ox].  
 LECTOTYPE ♂, USNM 28920.  
 REMARKS.—There is also a female with the same type number. Although the author designated a type, its sex was not stated. We do not know when, where, or by whom the male lectotype was designated. A junior synonym of *Euhoplopsyllus glacialis foxi* (Ewing, 1924), according to Kohls, 1939:2020.
- praeceps** Traub, 1965. *Hopkinsipsylla occulta* [96509].  
 Journal of Medical Entomology, 2(2):132, figures 15, 17, 19.  
 LIBYA, Tripolitania, 7 km S, of El Gheddahia [= Al Qaddahiya, 31.22°N, 15.14°E], from *Pachyuromys [dubiasi]*, 3 December 1961, G.L. Ranck.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 69707.
- \*princei** Hubbard, 1943b. *Thrassis* [94305].  
 Pacific University Bulletin, 39(10):1, figure unnumbered.  
 USA, Kansas, Meade County, sine loco, from Grasshopper mouse, *Onychomys leucogaster*, July 1940, J.E. Hill and P.E. Crowe.  
 HOLOTYPE ♂, USNM 57090.  
 REMARKS.—A junior synonym of *Thrassis fatus* (Jordan, 1925), according to Eads, 1950b:50.
- \*princei** Hubbard 1949b. *Megabothris* [94922].  
 Entomological News, 60(7):170, figure 1A.  
 USA, Nevada, Washoe County [6.4 km W] Vya [41.35°N, 119.51°W], from Sagebrush vole, *Lagurus* [= *Lemmiscus*] *c.[urtatus]*, 19 August 1949, C.A. Hubbard.  
 HOLOTYPE ♂, Allotype ♀, USNM 104674.  
 REMARKS.—A junior synonym of *Megabothris (Amegabothris) clantoni* Hubbard, 1949a, according to Holland, 1952a:70.
- princei** Holland and Jameson, 1950. *Nearctopsylla* (*Beringiopsylla*) [95002].  
 Canadian Entomologist, 81(10):251, figures 4, 5, 7.  
 USA, California [Plumas County], Quincy [39.56°N, 102.56°W], from *Sorex trowbridgii*, 9 December 1948, E.W. Jameson [Jr.].  
 HOLOTYPE ♂, Allotype ♀, te slides, USNM 104675.
- \*princei** Barnes, 1965. *Anomiopsyllus* [96524].  
 Pan-Pacific Entomologist, 41(4):276, figure 2.  
 USA, New Mexico, Catron County [24 km NE Luna, 33.49°N, 108.57°W, 2195 m], from *Sciurus aberti*, 18 April 1940, collector not given.  
 HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 68225.  
 REMARKS.—A junior synonym of *Anomiopsyllus martini* Holland, 1965, according to Smit and Wright, 1978a:40.

**procaviae** C. Fox, 1914. *Xenopsylla* [91414].

Bulletin of the Hygienic Laboratory, Washington, 97:8, plate II: figures 1-5.

KENYA, sine loco, from [*Procavia* sp. = *capensis*], 1909, Br.[itish] E.[ast] Africa Roosevelt Exp.[edition], no collector given.

LECTOTYPE ♂, USNM 18453.

REMARKS.—The type series consisted of three males and seven females. No specific type was designated in the description and we do not know where, when, or by whom the lectotype was formally designated. There is also a female *Xenopsylla hyirax* [sic] on the same slide. Now *Procaviopsylla procaviae* (C. Fox).

**propinacta** Traub and Evans, 1967a. *Mesopsylla tushkan* [96710].

Journal of Medical Entomology, 4(3):341, figures 1-6, 9-15, 18.

EGYPT, W[estern] Desert Governorate, 35 km [W] Mersa Matrûh on Sidi Barrani Road, Abar el Dafa [-31.22°N, 26.55°E], from *Jaculus orientalis* and nest, February 1960, H. Hoogstraal.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69708.

**\*proximus** Baker, 1904. *Ceratophyllus* [90429].

Proceedings of the United States National Museum, 27(1361):412, plate XIX: figures 1-5.

USA, California [Riverside County], Palm Springs [33.49°N, 116.34°W], from nests in spermophile burrow [= *Spermophilus* sp.], Mar. 20 [20 March] [H.G.] Hubbard.

[HOLO]TYPE ♀, USNM 6917.

REMARKS.—Two females on two slides. One slide annotated "not type, quite different = *eremicus*." Considered a junior synonym of *Thrassis arizonensis* (Baker, 1898), by Jordan, 1929a:31.

**pseudagyrtis** Baker, 1904. *Ctenophthalmus* [90434].

Proceedings of the United States National Museum, 27(1361):421, plate XI: figures 7-12.

USA, Michigan [Ingham County, East Lansing,] Ag.[ricultural] Coll.[ege of] Mich.[igan, = Michigan State University, 42.45°N, 84.30°W], from mole [*Scalopus aquaticus*], 10-'91 [October 1891], C.F. Baker.

[HOLO]TYPE ♀, USNM 6922 as *Typhlopsylla assimilis* var., by designation by Baker (1904:421).

REMARKS.—There is an additional female with approximately identical data but, "10-2-[18]91, C.F.B. 6803, 133/21, *Typhlopsylla assimilis* var. *Ct. pseud.*," and another female labeled "cotype," from Ames, Iowa, from "*Scolops vigentatne* [?], 8[August]-26-[18]90, Prof. H. Osborn," USNM 6922. Now *Ctenophthalmus (Nearctoctenophthalmus) pseudagyrtis pseudagyrtis* Baker.

**pseudarctomys** Baker, 1904. *Ceratophyllus* [90419].

Proceedings of the United States National Museum, 27(1361):399, plate XXIV: figures 1-7.

USA, New York [Herkimer County], Newport [-42.12°N, 73.56°W], from *Arctomys* [= *Marmota*] *monax*, no date given, D.B. Young.

TYPE ♂, USNM 6907.

REMARKS.—Now *Opisodasys (Opisodasys) pseudarctomys* (Baker). The specimen listed above is here designated the LECTOTYPE. There is also a female "cotype" with the same data which we designate the allolectotype.

**psila** Prince and Stark, 1951. *Dactylopsylla bluei* [95119].

Pan-Pacific Entomologist, 27(3):128, figures 1-5.

USA, Nevada, Clark Co.[unty], 20 mi [32 km] W Las Vegas, State Game Refuge [36.10°N, 115.10°W], 2300 ft [702 m], from *Thomomys perpallidus* [= *bottae*], March 26, 1949 [H. Owen and O. Smith].

HOLOTYPE ♂, Allotype ♀, USNM 104676.

REMARKS.—Originally spelled *psilos*.

**\*quebecensis** I. Fox, 1940a. *Ceratophyllus* [94020].

Proceedings of the Entomological Society of Washington, 42(3):65, plate 9: figures 3, 4.

CANADA, Quebec, St. Mary's Island [50.12°N, 59.46°W], from eider down, 30 June 1938, H.S. Peters.

HOLOTYPE ♂, Allotype ♀, USNM 53587.

REMARKS.—A junior synonym of *Ceratophyllus (Emmareus) garei* Rothschild, 1902, according to Holland, 1949:148.

**rara** I. Fox, 1940b. *Dactylopsylla (Spicata)* [94037].

Journal of the Washington Academy of Sciences, 30(6):275, figures 5, 6.

USA, Colorado, Jackson County, sine loco, from *Thomomys fossox* [sic] [= *Thomomys talpoides*], 13 July 1926, S.C. McCampbell.

HOLOTYPE ♂, USNM 54013.

REMARKS.—Now *Spicata rara* (I. Fox).

**rara** Tipton and Machado-Allison, 1972. *Adoratopsylla antiq-uorum* [97228].

Brigham Young Univeristy Science Bulletin, Biological Series, 17(6):46, figures 37-39.

VENEZUELA, Bolívar, 59 k[m] SE El Dorado [-06.14°N, 61.14°W], 1032 m, from *Marmosa murina*, 2 June 1966, Tuttle team.

HOLOTYPE ♂, USNM 72534.

**ravalliensis** Dunn, in Dunn and Parker, 1923. *Ctenopsyllus* [92340].

Public Health Reports, Washington, 38(883):2768.

USA, Montana [Ravalli County, Bitterroot Mts.] SW Darby, Tin Cup Creek [-46.00°N, 114.13°W], from "pack rat" [= *Neotoma* sp.], 31 August 1922, collector not given.

HOLOTYPE ♂, USNM 104677.

REMARKS.—Allotype female from Spoon Creek, SW of Darby, Montana, 8-16-22, from "pack rat." Now *Pero-myscopsylla hesperomys ravalliensis* (Dunn).

**recava** Traub and Evans, 1967b. *Palaeopsylla* [96718].

Pacific Insects, 9(4):604, figures 1-12, 77.

- TAIWAN, NTHF [Nan Tou Hsien, 23.50°N, 121.00°E], Yin Feng, 6800' [2090 m], from *Soriculus caudatus fumidus* [= *fumidus*], 31 January 1962, C.[M.] Yoshimoto and M.[C.] Thompson.
- HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69712.
- reconditus** Peus, 1977. *Ctenophthalmus (Palaeoctenophthalmus)* [97710].
- Abhandlungen der Zoologisch-Botanischen Gesellschaft in Wein, Band XX [1976] 20:42.
- TURKEY, Bolu Province, 30 mi [48 km] N of Bolu [40.47°N, 31.38°E], 3500' [1067 m], from mole rat [*Spalax leucodon*], 11 August 1953, H. Hoogstraal.
- HOLOTYPE ♂, Allotype ♀, on same slide, USNM 105224.
- REMARKS.—Under the brief discussion of this taxon the author states that the type series consisted of four males and three females and inserted the following parenthetical statement: "... among them the Holotype male and the Allotype female, designated R. Traub with my consent." The slide now in the collection, which bears the Holotype and Allotype, was given to Nancy Adams by Dr. R. Traub, and through verbal communication Dr. Traub confirmed that these specimens were the type specimens referred to in the original description.
- recta** Tipton and Machado-Allison, 1972. *Adoratopsylla antiquorum* [97229].
- Brigham Young University Science Bulletin, Biological Series, 17(6):46, figures 40-42.
- VENEZUELA, Falcón State, near Mirimire [11.10°N, 68.43°W], 250 m, from *Monodelphis brevicaudata*, 12 August 1967, Peterson team.
- HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 72535.
- rectus** Morlan, 1953. *Meringis* [95363].
- Journal of Parasitology, 39(6):606, plate I: figures 1-7.
- USA, New Mexico, Santa Fe County [Santa Fe] airport, [-35.41°N, 105.57°W], from *Dipodomys spectabilis*, 12 March 1953, H.B. Morlan.
- HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 59914.
- \*reeheri** Hubbard, 1954. *Monopsyllus vison* [95423].
- Entomological News, 65(7):174, figure unnumbered.
- USA, Oregon [Morrow County], Hepner [*recte* Heppner], 45.23°N, 119.33°W, from Pine squirrel, *Tamiasciurus hudsonicus*, 15 June 1950, C.A. Hubbard.
- LECTOTYPE ♂, USNM 104678.
- REMARKS.—There is also a female on the same slide. No types were designated in the description. Lectotype designated and name synonymized by Johnson, 1961:12. A junior synonym of *Ceratophyllus (Monopsyllus) vison* Baker.
- roberti** Mardon, 1976. *Papuapsylla* [97620].
- Australian Journal of Zoology, Supplementary Series, 45:22, figures 14, 36, 52, 62, 63, 90.
- NEW GUINEA (N. W.) [= INDONESIA, Irian Jaya], Wissel Lakes [-03.55°S, 136.15°E], Enaratali, from "rat," 17 July 1962, N. Wilson.
- HOLOTYPE ♂, USNM 103890.
- robustus** Jordan, 1925. *Ceratophyllus* [92523].
- Novitates Zoologicae, 32(1):105, figure 18.
- USA, Arizona, Navajo County, White River [31.51°N, 109.58°W], host not given, 28 June 1920, H.H. Kimball.
- HOLOTYPE ♀, by designation, BMNH.
- REMARKS.—Now *Opisodasys (Sciuropsylla) robustus robustus* (Jordan). There is a male of this species labeled "allotype" with the following data: "USA, Arizona, [Santa Cruz County], White House Canyon, Santa Rita Mts. [-31.42°N, 110.43°W], from Fox squirrel [= *Sciurus niger*], 5-4-33 [4 May 1933], G.M. Kohls." This specimen has no type status.
- rockwoodi** Hubbard, 1942. *Thrassis* [94210].
- Pacific University Bulletin, 38(6):1, figure unnumbered.
- USA, Oregon, Harney County [32 km S] Blitzen, [-42.18°N, 119.05°W], from Sage squirrel, *Citellus mollis mollis* [= *Spermophilus townsendii*], 6 July 1939, C.A. Hubbard.
- HOLOTYPE ♂, Allotype ♀, on same slide, USNM 57091.
- REMARKS.—Now *Thrassis francisi rockwoodi* Hubbard.
- sakagutii** Jameson and Suyemoto, 1955. *Nycteridopsylla* [95521].
- Japanese Journal of Sanitary Zoology, 6(1):19, figures 1a-c, 2a,b.
- [SOUTH] KOREA, Taegu [35.52°N, 128.36°E], from *Pipistrellus savii*, 2 February 1954, J.P. Kramer.
- HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 62954.
- sasai** Jameson and Kumada, 1953. *Neopsylla* [95307].
- Journal of Parasitology, 39(4):459, plate 2: figures A-D, plate 4: figures A-I.
- JAPAN, Honshu [Island], Shiga Prefecture, Hiei-zan [Mt., 35.05°N, 135.50°E], from *Apodemus speciosus*, 27 March 1952, E.W. Jameson, Jr.
- HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 61835.
- scapoosei** Hubbard, 1954. *Dactylopsylla comis* [95414].
- Entomological News, 65(7):169, figure unnumbered.
- USA, Oregon, Columbia County, Scapoose [45.46°N, 122.54°W], from *Thomomys douglasi* [= *talpoides*], 8 May 1951, C.A. Hubbard.
- HOLOTYPE ♂, Allotype ♀, said to be in the USNM but not located.
- REMARKS.—Now *Spicata comis scapoosei* (Hubbard).
- schmidti** Traub and Barrera, 1955. *Strepsylla* [95509].
- Fieldiana: Zoology, 37:544, plate 11: figures 2, 5, plate 12, figure 2, plate 13: figure 4.
- MEXICO, Chiapas State, 17 km NW Teopisca [-16.39°N, 92.59°W], 6500' [1981 m], from *Peromyscus boylii levipes*, 31 August 1953, [D.P.] Furman and [M.A.] Price.
- HOLOTYPE ♂, USNM 62614.

- sciuri* Ewing, 1924. *Pygiopsylla* [92404].  
Parasitology, 16(3):353, plate XIV: figure 7.  
INDONESIA, Borneo [E.] Sungei Merah, 00.50°N, 116.49°E, from *Sciurus atricapillus* [= *Callosciurus prevostii*], no date or collector on slide [15 March 1914, H.C. Raven].  
HOLOTYPE ♀, by designation, USNM 23772.  
REMARKS.—Now *Farhangia sciuri* (Ewing).
- scotinomi* Tipton and Méndez, 1966. *Plocopsylla* [96621].  
*Ectoparasites of Panama*, Wenzel and Tipton, editors, page 322, plates 92, 93.  
PANAMA, Chiriquí Province, Camino Boquete [~8 km beyond Cerro Punta, Boquete = 08.47°N, 82.25°W], 7800' [2377 m], from *Scotinomys xerampelinus*, 2 May 1961, [C.M.] Keenan and [V.J.] Tipton.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104679.
- scotti* I. Fox, 1939a. *Peromyscopsylla* [93908].  
Proceedings of the Entomological Society of Washington, 41(2):49, figures 4, 5.  
USA, Iowa [Dubuque County], Dubuque [42.31°N, 90.41°W], from White-footed mouse [= *Peromyscus leucopus*], 4 November 1937, T.[G.] Scott.  
HOLOTYPE ♀, USNM 52900.  
REMARKS.—There is another slide bearing a male and female, the male of which is marked allotype, from *Peromyscus leucopus fuscus*, Edgerton, Mass., November 13, [19]37, C.N. Smith. However, the author of the name had only two females at the time of description and this allotype has no type status.
- setosa* Johnson, 1956. *Myodopsylla* [95610].  
Journal of the New York Entomological Society, 62(4):193, figures 1, 2, 6, 8, 10, 12, 13.  
PERU [Huancavelica Department], Yucay [13.19°S, 74.16°W], from bat, 29 December 1937, J. Soukup.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 63289.
- setosis* Prince, 1944. *Thrassis* [94401].  
Pan-Pacific Entomologist, 20(1):13, figures 5, 6.  
USA, Ariz.[ona], Yuma Co.[unty], 17.5 km E Yuma, ~32.40°N, 114.25°W, from *Citellus harrisi saxicola* [= *Ammospermophilus harrisi*], Coll. 4-6-38 [6 April 1938, SFFS, (San Francisco Field Station?) personnel], B870.  
HOLOTYPE ♂, Allotype ♀, USNM 104680.  
REMARKS.—Now *Thrassis bacchi setosis* Prince.
- setzeri* Traub and Evans, 1967b. *Palaeopsylla* [96720].  
Pacific Insects, 9(4):614, figures 19–28, 30, 31, 78.  
PAKISTAN, Hazara District, Kaghan Valley, Shogran, [~34.47°N, 73.36°E], 7500' [2310 m], from *Hyperacrius* sp. [= *wynnei*], 29 July 1963, R. Traub and A.B. Mirza.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 69714.
- \**setzeri* Segerman, 1970. *Lagaropsylla* [97014].  
Novos Taxa Entomológicos, 82:3, figures 1–6.  
NIGERIA, Shagunu [untraced], from *Rhinolophus landeri*, 12 June 1966, H.J. Herbert.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 72476.  
REMARKS.—Considered a junior synonym of *Lagaropsylla idae* Smit, 1957, by Smit and Wright, 1978a:43.
- sexdentatus* Baker, 1904. *Ceratophyllus* [90422].  
Proceedings of the United States National Museum, 27(1361):403, plate XXVI: figures 8–14.  
USA, California [Santa Cruz County], Boulder Creek, [37.07°N, 122.09°W], from wood rat, *Neotoma* sp., date not given, [E.] Ehrhorn.  
TYPE, USNM 6910.  
REMARKS.—Now *Orchopeas sexdentatus sexdentatus* (Baker). There are two slides, a male and a female, both labeled "type." We here designate the male as the LECTOTYPE of the species and the female as the allolectotype.
- shannoni* Jordan, 1929a. *Phalacropsylla* [92920].  
Novitates Zoologicae, 35(1):38, plate II: figures 28, 29.  
USA, Washington [Adams County], Ritzville, [47.08°N, 118.23°W], from "field mice," 16 June 1920, R.C. Shannon.  
[HOLO]TYPE ♂, designated by Jordan (1929a:39), USNM 41416.  
REMARKS.—Now *Meringis shannoni* (Jordan).
- shogakii* Jameson and Sakaguti, 1954. *Athyloceras* [95432].  
Journal of Parasitology, 40(4):372, figure 1A–G.  
JAPAN [Honshu Island], Nagano Prefecture, Mt. Hodaka [= Hotaka-Dake, 36.17°N, 137.39°E], Karasawa, 2500 m, from *Apodemus speciosus*, 21 August 1953, Tsugio Hirabayashi.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 62233.
- sierrae* Stark, 1970. *Thrassis francisi* [97003].  
University of California Publications in Entomology, 53:76, figures 168–173.  
USA, California, Tuolumne Co.[unty], Yosemite [National Park], Tuolumne Meadows [37.51°N, 119.25°W], 8500 ft [2593 m], from *Citellus* [= *Spermophilus*] *beldingi*, 2 Sept.[ember] 1949 [SFFS, (San Francisco Field Station?) personnel].  
HOLOTYPE ♂, USNM 104681.  
REMARKS.—Allotype female with same data but 11 August 1959.
- simplex* Baker, 1895d. *Pulex inaequalis* var. [89511].  
Canadian Entomologist, 27(6):164.  
USA [Michigan, Ingham County, East Lansing], Ag.[ricultural] Coll.[ege of] Mich.[igan, = Michigan State University, 42.45°N, 84.30°W], from *Lepus* sp., date not given, C.F. B.[aker].  
TYPE ♂, USNM 104682.  
REMARKS.—Now *Cediopsylla simplex* (Baker). Listed as *Ctenocephalus simplex* in Baker, 1904:385, 439.
- simulans* Baker, 1895a. *Pulex irritans* var. [89501].  
Canadian Entomologist, 27(3):66.  
REMARKS.—No data other than that the two specimens, sex

not given, upon which Baker based the name were from an opossum [= *Didelphis virginiana*]. Syntype female (now a paralectotype) is USNM 104159. Since the USNM [female] specimen was damaged, Smit, 1958b:525, designated a female syntype in the Tring collection, now in the BMNH, as the lectotype. It bears the following data: "on opossum, Webster, per C.F. Baker" to which Smit added "Devil's River, Texas" and to which we add "Val Verde County." Now *Pulex (Pulex) simulans* Baker.

\**sinensis* Liu, 1935. *Oropsylla* [93503].

Peking Natural History Bulletin, 9(4):273, figures 1-4.

CHINA [Sichuan Province], Suifu [= Ipin, 28.50°N, 104.35°E], 1000 ft [305 m], from "wild mammals," May-June 1930, D.C. Graham.

TYPE, ♀, USNM 50581.

REMARKS.—There are two females on the same slide. A junior synonym of *Paraceras melis flabellum* Wagner, 1916, according to Smit, 1976:2.

*smiti* Méndez, 1956. *Megarhthroglossus* [95608].

University of California Publications in Entomology, 11(3):175, figures 2, 3E, 5B, 7E, 12A,C, 13F.

USA, Utah [Millard County], Lynndyl [39.31°N, 112.25°W], from *Neotoma lepida* [nest], 17 November [19]51, [L.] Moore and [A.H.] Barnum.

HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104683.

*smiti* Johnson, 1957a. *Libyastus* [95722].

Bulletin of the Brooklyn Entomological Society, 52(3):74, figures 1, 4, 8, 14, 15, 17.

Tanganyika Terr. [= TANZANIA], Western Province, Uluguru Mts., Nyange [04.08°S, 30.20°E], from *Aetheosciurus byatti* [= *Paraxerus vexillarius*], 4 October 1926, L. Loveridge.

HOLOTYPE ♀, USNM 63515.

*smiti* Traub, 1957. *Rothschildiana* [95770].

Studies from the Institute for Medical Research, Federation of Malaya, 28(17):35, figures 1-3, 5-9.

MALAYSIA, Pahang, Jariau, Fraser's Hill [03.44°N, 101.44°E], 3600' [975 m], from *Rattus* [= *Leopoldamys*] *edwardsi*, 13 January 1956, R. Traub.

HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 64076.

REMARKS.—Allotype female from *Rattus* [= *Maxomys*] *alticola*, 14 January 1956.

\**spatiosus* I. Fox, 1940a. *Opisodasys* [94019].

Proceedings of the Entomological Society of Washington, 42(3):65, plate 9: figure 2.

USA, Arizona, Cochise County, Chiricahua Mts., [~31.50°N, 109.17°W], from Chiricahua red squirrel, *Sciurus chiricahuae* [= *nayaritensis*], 18 August [19]33, W.P. Taylor.

HOLOTYPE ♂, USNM 53586.

REMARKS.—A junior synonym of *Opisodasys (Sciuropsylla) robustus robustus* (Jordan, 1925), according to I. Fox, 1941:45.

\**spenceri* Dunn, in Dunn and Parker, 1923. *Odontopsylla* [92338].

Public Health Reports, Washington, 38(883):2765, 2775.

USA, Montana [Ravalli County], foothills of Bitterroot Mts., W of Hamilton [~46.15°N, 114.10°W], from "snowshoe rabbit" [= *Lepus americanus*], 7 April 1922, collector not given.

HOLOTYPE ♂, USNM 104684.

REMARKS.—There is also a female allotype in the collection from Canyon Creek, Bitterroot Mountains, west of Hamilton, 16 November 1922. A junior synonym of *Odontopsyllus dentatus* (Baker, 1904), according to Kohls, 1940:20.

\**spinata* I. Fox, 1940b. *Corypsylloides* [94035].

Journal of the Washington Academy of Sciences, 30(6):273, figures 1, 2, 4.

USA, Oregon [Multnomah County], Portland [45.32°N, 122.40°W], from *Microtus townsendii*, 24 December 1931, S.G. Jewett.

HOLOTYPE ♂, USNM 54011.

REMARKS.—A junior synonym of *Corypsylla kohlsi* Hubbard, 1940, according to Ewing and Fox, 1943:96.

\**spinifrons* I. Fox, 1939a. *Peromyscopsylla* [93907].

Proceedings of the Entomological Society of Washington, 41(2):48.

USA, Tennessee [Jefferson County], Jefferson City, 400 ft [122 m], from entrance of Buttry's Cave [36.07°N, 83.30°W], host not given, 4 February 1933, J.D. Ives.

HOLOTYPE ♂, by monotypy, USNM 52899.

REMARKS.—A junior synonym of *Peromyscopsylla hesperomys hesperomys* (Baker, 1904), according to I. Fox, 1940c:84.

*spinus* Lewis, 1974a. *Paradoxopsyllus* [97415].

Journal of Medical Entomology, 11(1):62, figures 33-38.

NEPAL [Mustang District], Mustang, 29.12°N, 83.57°E, 12,500' [3810 m], from *Rattus* sp., 12 March 1970, R.M. Mitchell.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72547.

*spiramus* Jordan, 1926. *Stivalius* [92630].

Novitates Zoologicae, 33(3):391, figure 12.

PHILIPPINES, Baguio Bengue [= Baguio, 16.24°N, 120.36°E], from *Rattus quereci* [= *R. exulans*], August 1923, E.H. Taylor.

HOLOTYPE ♀, by monotypy, BMNH.

REMARKS.—Now *Stivalius cognatus spiramus* Jordan. There is a male bearing USNM 7362 marked allotype, with the following data: Philippine Islands, Luzon, [Mountain province], Baguio, below entrance-roadside, [16.24°N, 120.36°E], elev. 3600' [1097 m], from *Rattus exulans*, 24 October 1961, R. Traub. This specimen has no status beyond that of possibly a topotype.



*stejnegeri* (Jordan, 1929a). *Ceratophyllus* [92915].

Novitates Zoologicae, 35(1):36, plate II: figures 22, 23.

[USSR, Komandorskiye Ostrova, Khabarovsk Krai], Bering I[slan]d [~55.14°N, 166.04°E, there is no host given on the slide], 1882–1883, L. Stejneger.

[LECTO]TYPE ♂, USNM 41437, designated by Smit, 1961:67.

REMARKS.—Now *Dasypsyllus* (*Neornipsyllus*) *stejnegeri* (Jordan). There is also a female on the same slide.

*stellalpestris* Traub, 1977. *Tiflovia* [97738].

Journal of Medical Entomology, 13(6):667, figures 18–20, 22.

[PAPUA] NEW GUINEA, Papua, Western District, Star Mts. [~05.15°S, 141.20°E], 3100 m, from *Pogonomelomys* [= *Coccymys*] *ruemmleri*, 29 May 1971, A.B. Mirza. HOLOTYPE ♂, Allotype ♀, on same slide, USNM 73843.

*stewarti* Johnson, 1955. *Chaetopsylla* [95514].

Pan-Pacific Entomologist, 31(3):93, figures 1–4, 7, 11, 17, 23.

USA, Utah, Cache County, Sardine Cañon [~41.57°N, 111.27°W], from “weasel” [= *Mustela* sp.], 28 December 1937, Deming.

HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 62923.

*stimsoni* C. Fox, 1914. *Ceratophyllus* [91417].

Bulletin of the Hygienic Laboratory, Washington, 97:12, plate IV: figures 4–6.

USA, California [Los Angeles County], Los Angeles, [34.00°N, 118.15°W], from gophers [= *Thomomys* sp.], 1908, [A.M.] Stimpson.

LECTOTYPE ♂, USNM 18456.

REMARKS.—There were two males in the type series but the author did not designate a type. We do not know when, where, or by whom the lectotype was formally designated. Smit and Wright, 1978a:12, synonymized this name with *Dactylopsylla bluei bluei* (C. Fox), but Traub et al., 1983:83, stated that they have seen a pair from *Mustela* from Orange County, California, that agreed with Fox’s figures. They go on to say that they were sufficiently distinctive to be considered a full species. Now *Dactylopsylla stimsoni* (C. Fox).

*stylosus* Baker, 1904. *Ceratophyllus* [90433].

Proceedings of the United States National Museum, 27(1361):418, plate XIV: figures 1–7, plate XV: figures 1, 2.

USA, Oregon [Clatsop County], Astoria [46.12°N, 123.50°W], from *Aplodontia rufa*, 16 July [18]97, A.K. Fisher.

[HOLO]TYPE ♂, by designation by Baker (1904:420), USNM 6921.

REMARKS.—In total there are six slides bearing the same data. One is marked “type” and the remaining three males and two females are marked “cotype.” These are actually paratypes. Now *Dolichopsyllus stylosus* (Baker).

*suarezi* C. Fox, 1929. *Hectopsylla* [92926].

Entomological News, 40(7):218.

ECUADOR [Pichincha Province], Quito [00.14°S, 78.30°W, from *Rattus rattus*], 2 February 1927, [V.A. Suarez].

LECTOTYPE ♀, USNM 41819.

REMARKS.—Here again, the author specifically designated a single female from the type series as the type. We have been unable to determine when, where, by whom, or why a lectotype was designated. There is no host listed on the slide, but there is “Echidnophaga pulgas de aya — predomina ore Salacuneq.” According to the description hosts included guinea pigs and *Rattus norvegicus* and *R. rattus*.

*sylvaticus* Campos and Stark, 1979. *Hystrichopsylla occidentalis* [97932].

Journal of Medical Entomology, 15(5–6):442, figures 1–15.

USA, Colorado, Larimer County, Foothills Research Campus, 2.5 km W Fort Collins [40.35°N, 105.06°W, 1580 m], *Peromyscus difficilis*, 24 October 1969, E. Campos.

HOLOTYPE ♂, USNM 104685.

REMARKS.—Said to be in the USNM but not located. Neither is it in the collection of the CDC at Fort Collins, Colorado. Allotype female from Anderson Ranch, Buckhorn Mt., 20 km W Fort Collins, Larimer County, Colorado, from *P. maniculatus*, 1 August 1971, E.G. Campos.

*tacoma* Hubbard, 1954. *Dactylopsylla comis* [95415].

Entomological News, 65(7):170, figure unnumbered.

USA, Washington [Pierce County], Tacoma [47.16°N, 122.30°W], from Tacoma pocket gopher, *Thomomys t.[alpoides] tacomensis* [= *T. mazama*], 10 November 1947, C.A. Hubbard.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104686.

REMARKS.—The specimens listed above are mounted on one slide labelled “holotype” and “allotype” on one label and “lectotype” on the other. Hubbard usually designated types and it is not clear who added “lectotype” to the label. In any case, the designation should be ignored. Now *Spicata comis tacoma* (Hubbard).

*taiwanus* Smit, 1964a. *Ctenophthalmus* [96402].

Entomologist, 97(1209):45, figures 1, 3, 5.

TAIWAN, NTHF [Nan Tou Hsien, 23.50°N, 121.00°E], Moi Feng, elev. 5500 ft [1678 m], from *Eothenomys melanogaster*, 23 January 1962, C.[M.] Yoshimoto and M.[C.] Thompson.

HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104687.

REMARKS.—Now *Ctenophthalmus* (*Sinoctenophthalmus*) *taiwanus taiwanus* Smit.

*tana* Traub, 1972. *Medwayella phangi* [97219].

Bulletin of the British Museum (Natural History), Zoology, 23(9):242, figures 65, 67, 75.

- [MALAYSIA], Sarawak, W Puch [−01.35°N, 111.16°E], from *Tupaia tana*, 11 June 1958, T.C. Maa.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 71603.
- \*tangerensis** Hastriter and Tipton, 1975. *Ctenophthalmus russulae* [97553].  
The Journal of the Egyptian Public Health Association, 50(2):138, figures 52–57.
- MOROCCO, Taza Province, Taza, 23 km S [−34.00°N, 04.01°W], from *Apodemus sylvaticus*, 16 June 1970, M.G. Hearst.  
HOLOTYPE ♂, USNM 73816.  
REMARKS.—Allotype female from Tangier Province, 3 km S, Cap Spartel, 15 May 1970, L.W. Robbins. A junior synonym of *Ctenophthalmus (Medioctenophthalmus) russulae galloibericus* Beaucoumu and Lumaret, 1972, according to Beaucoumu and Alcover, 1984:381.
- tauberi** Lewis, 1973a. *Palaeopsylla tauberi* [97301].  
Journal of Parasitology, 59(1):187, figures 1–7.  
NEPAL, Sindhu District, Melumche [28.03°N, 85.33°E], 8100' [2469 m], from *Soriculus nigrescens*, 26 August 1968, R.[M.] Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72369.
- texanus** C. Fox, 1914. *Ischnopsyllus* [91420].  
Bulletin of the Hygienic Laboratory, Washington, 97:16, plate V: figures 6–8.  
USA, Texas [Reeves County], Pecos [31.25°N, 103.30°W], from bat, *Nyctinomus [mexicanus = Tadarida brasiliensis]*, 21 March 1902, collector not given.  
[HOLO]TYPE ♀, by monotypy, USNM 18459.  
REMARKS.—Now *Sternopsylla distincta texana* (C. Fox).
- texensis** Eads, 1950a. *Orchopeas howardi* [95032].  
Annals of the Entomological Society of America, 43(1):47, figures 1–5.  
USA, Texas [Menard County], Menard [30.56°N, 99.48°W], from *Sciurus niger*, 29 December 1946, D.C. Thurman.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104688.
- tholatus** Traub, 1963c. *Ctenophthalmus* [96312].  
Proceedings of the Helminthological Society of Washington, 30(2):272, figures 13–32.  
Tanganyika [= TANZANIA] [Northern Province], Arusha, [03.21°S, 36.40°E], Tengeru, 4100 ft [1251 m], from *M.[astomys] coucha*, 20 July 1956, H. Hoogstraal and G.M. Kohls.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104689.  
REMARKS.—Allotype female from *Arvicanthus [niloticus]*, 25 August 1956. Now *Ctenophthalmus (Ethioctenophthalmus) calceatus tholatus* Traub.
- thurmani** Traub, 1972. *Medwayella* [97221].  
Bulletin of the British Museum (Natural History), Zoology, 23(9):244, figures 86–92, 94–97, 99–102.
- THAILAND, Nakhon Ratchasima, Si Khiu, Pak Chong, [15.00°N, 102.06°E], from *Menetes bermorei*, 23 September 1952, R.E. Elbel.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71605.
- thysanota** Traub, 1968a. *Evansipsylla* [96819].  
Journal of Medical Entomology, 5(4):415, figures 1–17.  
NEPAL [Rasuwa District], Langtang Valley [28.13°N, 85.23–35°E], elev. 3400 m, from *Ochotona roylei*, 22 October 1965, L.[W.] Quate and R.[M.] Mitchell.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 75467.  
REMARKS.—Now *Genoneopsylla thysanota* (Traub).
- tiomanica** Traub, 1972. *Medwayella robinsoni* [97217].  
Bulletin of the British Museum (Natural History), Zoology, 23(9):236, figures 53, 56, 64.  
MALAYSIA, Pahang, Palau Tioman, on Kampong Tekek—Kampong Juara Track [−02.46°N, 104.10°E], 500' [152 m], from *Callosciurus nigrovittatus*, 30 March 1962, Ng Cheong Kee et al.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 71601.  
REMARKS.—Allotype female from Kampong Tekek, coconut plantation, 18 March 1962.
- tiptoni** Traub, 1957. *Pygiopsylla* [95773].  
Studies from the Institute for Medical Research, Federation of Malaya, 28(17):55, figures 42–50.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, above Kamborangah [−06.03°N, 116.33°E], 7200' [2286 m], from *Rattus r[attus]*, 5 June 1952, Brit.[ish] S.[crub] T.[yphus] Unit.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 64079.  
REMARKS.—Now *Bibikovana tiptoni* (Traub, 1957).
- tiptoni** Méndez and Altman, 1960. *Kohlsia* [96022].  
Proceedings of the Entomological Society of Washington, 62(1):45, figures 1–11.  
[PANAMA, Panamá Province], Cerro Azul, Blue Ridge [= Cerro Prominente] [09.13°N, 79.18°W, 152–900 m], from common opossum, *Didelphis marsupialis*, 29 January 1958, MCF and PMS.  
HOLOTYPE ♂, USNM 64877.  
REMARKS.—Allotype female with same data but from Climbing rat, *Tylomys panamensis*.
- trapidoi** Méndez, 1977. *Polygenis (Polygenis) trapidoi* [97731].  
Questiones Entomologicae, 13(2):141–142, figures 33, 34.  
COLOMBIA, Departamento del Valle, Municipio de Cali, Valle del Río Pichindé [−03.24°N, 76.30°W], 1700–1900 m, *O.[ryzomys = Melanomys] caliginosus*, 31 October 1966, H. Trapido.  
HOLOTYPE ♂, USNM 104259.
- traubi** Lewis, 1973b. *Acropsylla* [97319].  
Fieldiana: Zoology, 64:104, figures 212–217, 315, 316.  
PAKISTAN, Dir State, Dir, E of river [35.13°N, 71.56°E], elev. 4800' [1463 m], from *Mus* sp., 14 August 1964, J.J. O'Keefe and R.L. Amoureux.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 72242.

- traubi** Tipton and Méndez, 1961. *Kohlsia* [96104].  
Annals of the Entomological Society of America, 54(2):269, figures 9, 10.  
PANAMA, Chiriquí, Bambito, Cerro Punta, Casa Tilley, [08.51°N, 82.36°W], 5300' [1615 m], *Peromyscus nudipes* [= *mexicanus*], 3 May 1960, [C.M.] Keenan and [V.J.] Tipton.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 66655.
- traubi** Holland and Jellison, 1952. *Mioctenopsylla traubi* [95229].  
Canadian Entomologist, 84(12):378, figures 3, 4f,g, 5-9.  
USA, Alaska [Pribilof Islands], St. Paul Island, 57.09°N, 170.18°W, from nest of Kittiwake, *Rissa* sp. [= *brevirostris*], 1 September 1951, [W.L.] Jellison.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104690.  
REMARKS.—Holotype and allotype originally in the Rocky Mountain Laboratory, Hamilton, Montana. The allotype female is now in the USNM [USNM 104690] but the location of the holotype male is unknown to us.
- \*traubi** Lewis, 1966. *Myoxopsylla (Myoxopsylla) laverani* [96628].  
Journal of Parasitology, 52(6):1167, figures 1-7.  
EGYPT [Matruh Province], Ageeba, 28 km W [Mersa] Matrûh [~31.22°N, 26.55°E], from *Eliomys quercinus cyrenaicus* [= *E. melanurus*], 9 December 1964, H. H. [oogstraal].  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 69161.  
REMARKS.—Allotype dated 30 September 1965. A junior synonym of *Myoxopsylla (Myoxopsylla) laverani* (Rothschild, 1911). [NEW SYNONYMY.]
- traubi** Hubbard, 1949c. *Nearctopsylla jordani* [94926].  
Bulletin of the Southern California Academy of Sciences, 48(2):49-50, plate 5.  
USA, Oregon, Clackamas County, Sandy [45.24°N, 122.18°W], from Mole, *Scapanus townsendii*, 23 June 1942, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104702.  
REMARKS.—Now *Nearctopsylla (Beringiopsylla) traubi* Hubbard.
- triangularis** Lewis, 1972. *Ctenophyllus* [97208].  
Journal of Parasitology, 58(4):832, figures 1-5.  
NEPAL, Solukhumbu District, Khumjung, 2 mi [3 km] NE Namche Bazar [27.49°N, 86.44°E, 3673 m], from *Ochotona* sp., 7 November 1968, R.M. Mitchell.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 72243.  
REMARKS.—Now *Geusibia (Spinopsylla) triangularis* (Lewis).
- \*triptus** Jordan, 1938. *Monopsyllus exilis* [93822].  
Novitates Zoologicae, 41(2):122, figure 71g.  
USA, Colorado [Weld County], Rugger [probably Roggen, 40.10°N, 104.23°W], from *Dipodomys* sp. or *Onychomys* sp., 7-6-37 [7 June 1937].  
HOLOTYPE ♀, by designation, USNM 104691.  
REMARKS.—A junior synonym of *Monopsyllus* [= *Pleochaetis*] *exilis* (Jordan, 1937a), according to Johnson, 1961:13. The slide is labeled "*Monopsyllus exilis spadus* [= *opadus*?] Type female, *lapsus* = *triptus* Holotype."
- tristis** Johnson, 1957b. *Tetrapsyllus* [95741].  
Memoirs of the Entomological Society of Washington, 5:153, plate 80: figures 1-3, plate 81: figures 1-3, plate 82: figures 1, 2.  
PERU, Puno Department, Pampa de Ancomarca, 123 km S, Ilave [17.12°S, 69.39°W], 13,700' [4175 m], from *Akodon* [= *Chrocomys*] *jelskii*, 1 February 1952, A.K. Pearson.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 63370.  
REMARKS.—Now *Tetrapsyllus (Phylliver) tristis* Johnson.
- tropica** Méndez and Lemke, 1979. *Myodopsylla* [97933].  
Proceedings of the Entomological Society of Washington, 81(4):657, figures 1-7.  
COLOMBIA, Huila Division, Parque Nacional de la Cuera de los Guacharos, Cueva del Indio [~03.00°N, 75.59°W], elev. 1900 m, from *Myotis oxyotus*, 3 June 1976, Thomas Lemke.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104263.
- tuberculatus** Baker, 1904. *Ceratophyllus* [90414].  
Proceedings of the United States National Museum, 27(1361):393, plate XIII: figures 7-9.  
USA, Idaho [Latah County], Moscow, [46.44°N, 117.00°W], *Spermophilus columbianus*, date not given, J.M. Aldrich.  
[HOLO]TYPE ♀, COTYPE ♂, USNM 6902.  
REMARKS.—Now *Oropsylla (Opisocrostitis) tuberculata tuberculata* (Baker). The male "cotype" is actually a paratype of the opposite sex since a female was designated the type.
- uniseta** Traub, 1950b. *Kohlsia* [95019].  
Fieldiana: Zoology Memoires, 1:52, plate 32: figures 1-9.  
EL SALVADOR, Santa Ana Department, sine loco, from *Peromyscus* [sp.], 22 April 1942, M. Hildebrand.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104692.
- \*utahensis** Chapin, 1919. *Ceratophyllus* [91905].  
Bulletin of the Brooklyn Entomological Society, 14(2):60.  
USA, Utah [Box Elder County], mouth of Bear R. [iver, ~41.30°N, 112.10°W], from *Steganopus tricolor* or *Spatula* [= *Anas*] *clypeata*, 22 July 1916, Alex[ander] Wetmore.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 29372.  
REMARKS.—There is also a LECTOTYPE male in the BMNH, with the same data, that was invalidly designated by Smit and Wright, 1978b:48. A junior synonym of *Ceratophyllus (Emmareus) garei* Rothschild, 1902, according to Jordan and Rothschild, 1920:69.

- vermiformis** Traub, 1950b. *Pleochaetis* [95013].  
Fieldiana: Zoology Memoires, 1:37, plate 20: figures 4–7.  
EL SALVADOR, Chalatenango Department, sine loco,  
from *Peromyscus* [sp.], 24 March 1942, M. Hildebrand.  
HOLOTYPE ♀, USNM 104693.  
REMARKS.—Now *Plusaetis vermiformis* (Traub).
- veruta** Traub, 1972. *Medwayella* [97224].  
Bulletin of the British Museum (Natural History), Zoology,  
23(9):252, figures 114, 117, 119–125.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, Ranau,  
[06.03°N, 116.32°E], 1500' [457 m], from "squirrel nest,"  
31 July 1953, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71608.
- vesperalis** Jordan, 1929a. *Ceratophyllus* [92901].  
Novitates Zoologicae, 35(1):28, plate I: figures 1, 2.  
CANADA, British Columbia, Okanagan [50.02°N,  
119.23°W], from *Sciuropterus alpinus* [= *Glaucomyssabrinus*], 24 December 1913, J.A. Munro.  
LECTOTYPE ♂, BMNH. Designated by Smit and Wright,  
1978b:49.  
REMARKS.—There is a male of *Ceratophyllus vesperalis* in the USNM collection marked paratype, USNM 41432, bearing the following data: "Canada, British Columbia, Kelowna [49.50°N, 119.29°W], from *Sciurus* sp., 12 December 1919, A. Gate." This specimen was not mentioned in the original description and evidently was not part of the type series. It thus has no type status. Now *Opisodasys (Opisodasys) vesperalis* (Jordan).
- vigens** Jordan, 1937a. *Leptopsylla hamifer* [93707].  
Novitates Zoologicae, 40(2):265, figures 47, 48.  
USA, Montana, Ravalli County, sine loco, from *Microtus* sp., 10-12-34 [12 October 1934], [W.L.] Jellison.  
[HOLO]TYPE ♂, USNM 104694.  
REMARKS.—No type was specifically designated by Jordan, but there was only one male in the type series of three specimens. Now *Peromyscopsylla hamifer vigens* (Jordan).
- villai** Traub and Barrera, 1955. *Strepsylla* [95510].  
Fieldiana: Zoology, 37:546, plate 11: figures 3, 4, plate 12, figure 3, plate 13: figures 3, 5.  
MEXICO, Tlaxcala State, 10 km E Calpulálpán [–19.35°N, 98.35°W], from *Peromyscus difficilis*, 23 August 1952, B.[arnardo] Villa.  
HOLOTYPE ♂, USNM 62615.
- viracocha** Schramm and Lewis, 1987. *Plocopsylla* [98705].  
Journal of Medical Entomology, 24(4):399, figures 1–5.  
CHILE, Parinacota [18.12°S, 69.16°W], from *Phyllotis* sp., no date given, A. Spotorno.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 103891.
- vison** Baker, 1904. *Ceratophyllus* [90426].  
Proceedings of the United States National Museum, 27(1361):408.  
USA, New York [Madison County], Peterboro [–43.00°N, 75.40°W], from *Putorius* [= *Mustela*] *vison*, 13 July 1900, G.S. Miller.  
LECTOTYPE ♂, USNM 6914, designated by Johnson (1961:12).  
REMARKS.—There is also a paralectotype male with the same data but from *Putorius noveboracensis* [= *Mustela frenata*], 8 August 1900. Now *Ceratophyllus (Monopsyllus) vison* Baker.
- vitabilis** Eads, 1960. *Meringis* [96028].  
Journal of Parasitology, 46(2):213, plate I: figures A–E.  
USA, Texas, Brewster County, Tornillo Flat [–29.20°N, 103.20°W], from *Dipodomys merriami*, 24 February 1958, R.D. P[orter].  
HOLOTYPE ♂, USNM 65454.  
REMARKS.—Allotype female on separate slide, with similar data but, B.[ig] B.[end] N.[ational] P.[ark], 19 February 1958.
- vomerus** Traub, 1972. *Lentistivalius (Lentistivalius)* [97225].  
Bulletin of the British Museum (Natural History), Zoology,  
23(9):272, figures 140–144, 147–152, 156–159, 160, 161.  
[MALAYSIA, Sabah], North Borneo, Mt. Kinabalu, Tenompok [06.03°N, 116.32°E], 4500' [1372 m], from *Tupaia montana*, 16 August 1953, R. Traub.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 71609.
- vonfintelis** Prince, 1959. *Malariaeus* [95901].  
Wasmann Journal of Biology, 16(2):213, figures 1–4.  
USA, Wyo.[ming], Albany Co.[unty], sine loco, from *Neotoma* sp., Coll. 7-9-43 [9 July 1943, H. von Fintel].  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 104695.  
REMARKS.—Now *Amaradix bitterrootensis vonfintelis* (Prince).
- wagneri** Baker, 1904. *Ceratophyllus* [90423].  
Proceedings of the United States National Museum, 27(1361):405, plate XV: figures 3–7.  
USA, Idaho [Latah County], Moscow, [46.44°N, 117.00°W], nest of Dormouse, (*Calomys americanus* Kerr [= *Peromyscus leucopus*]), 7 May [18]95 [J.M. Aldrich].  
LECTOTYPE ♂, USNM 6911, designated by Johnson (1961:35).  
REMARKS.—Now *Aetheca wagneri* (Baker). *Peromyscus leucopus* is the host of one of the two males in the type series. The other was taken on a house mouse [= *Mus musculus*].
- \*walkeri** Hubbard, 1940a. *Meringis* [94049].  
Pacific University Bulletin, 37(5):3, figure unnumbered.  
USA, Oregon [Morrow County], 15 mi [24 km] South Boardman [–45.36°N, 119.43°W], from Oregon pocket mouse, *P.[erognathus] parvus*, 12 May 1939, C.A. Hubbard.  
HOLOTYPE ♂, USNM 54949.

- REMARKS.—A junior synonym of *Meringis hubbardi* Kohls, 1938, according to Smit, 1953a:397.
- walkeri* Barnes, 1965. *Anomiopsyllus* [96523].  
Pan-Pacific Entomologist, 41(4):272, figure 1.  
USA, California, Kern County, 7.6 mi [12 km] S, 5.6 mi [9 km] E, of Tehachapi [–35.06°N, 118.26°W], from nest of *Neotoma fuscipes*, 19 February [19]59, A.[M.] Barnes.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 68227.
- REMARKS.—Allotype collected on 22 January 1960.
- \**wallowensis* Hubbard, 1947. *Megarthroglossus divisus* [94706].  
*Fleas of Western North America*, page 131, figure 174.  
USA, Oregon [Wallowa County, Wallowa Lake, 45.20°N, 117.14°W], Lostine, from Pine squirrel, *Tamiasciurus h. [udsonicus]*, 6 August 1938, C.A. Hubbard.  
HOLOTYPE ♀, USNM 104696.
- REMARKS.—A junior synonym of *Megarthroglossus divisus* (Baker, 1898), according to Hopkins, 1952:365.
- wallowensis* Hubbard, 1950. *Monopsyllus* [95004].  
Entomological News, 60(10):255, figure 1.  
USA, Oregon [Wallowa County], Wallowa Lake [45.20°N, 117.14°W], from Chipmunk, *Eutamias [= Tamias] a. [moenus]*, 13 July 1939, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104699.
- REMARKS.—Now *Eumolpianus wallowensis* (Hubbard).
- washingtona* Hubbard, 1954. *Amphipsylla sibirica* [95418].  
Entomological News, 65(7):171, figures unnumbered.  
USA, Washington [Kittitas County], Ellensburg [47.00°N, 120.34°W], from Sagebrush vole, *Lagurus [= Lemmiscus] c. [urtatus]*, 6 February 1952, C.A. Hubbard.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104697.
- REMARKS.—Now *Amphipsylla washingtona* Hubbard.
- washingtonensis* Good and Prince, 1939. *Opisocrostitis* [93923].  
Public Health Reports, Washington, 54(37):1691, figures 3, 4.  
USA, Washington, Adams Co.[unty, 3.2 km E Lind, 46.59°N, 118.38°W], from *Citellus [= Spermophilus] townsendii*, Coll. 3-7-38 [7 March 1938, L.J. Hughes et al.], W-182.  
HOLOTYPE ♀, Allotype ♂, on separate slides, USNM 104698.
- REMARKS.—Now *Oropsylla (Hubbardipsylla) washingtonensis* (Good and Prince).
- wassifi* Traub, 1954b. *Araeopsylla* [95430].  
Proceedings of the Entomological Society of Washington, 56(4):161, figures 7, 11, 13, 15–20, 22.  
EGYPT, Giza Province, Abu Rawash [30.20°N, 31.06°E], from *Tadarida aegyptiaca*, 3 October 1952, H. Hoogstraal.  
HOLOTYPE ♂, Allotype ♀, on same slide, USNM 104700.
- weaveri* Eads and Campos, 1977. *Megarthroglossus* [97742].  
Journal of Medical Entomology, 14(1):98, figures 1–4.  
USA, Colorado, Larimer County [Rocky Mts. foothills, Weaver Ranch, ~40.46°N, 105.11°W, 1676–1768 m], from *Neotoma mexicana*, 30 October 1973, E.G. Campos.  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 76052.
- \**wickhami* Baker, 1895b. *Ceratophyllus* [89502].  
Canadian Entomologist, 27(4):109, 111.  
USA, Iowa [Johnson County], Iowa City [41.39°N, 91.31°W], from *Sciuropterus [= Glaucomys] volans*, no date given, H.F. Wickham.  
LECTOTYPE ♀, BMNH. Designated by Hopkins, 1954:198.
- REMARKS.—There is a female in the USNM marked “type,” bearing the following data: “[USA], New York [Tompkins County], near Ithaca [42.26°N, 76.30°W], from Red squirrel [*Tamiasciurus hudsonicus*], 28 September 1923, Greeley.” A mention of specimens from Ithaca, New York, from a “red squirrel,” without date, collected by R.H. Pettit, is made by Baker, 1895b:110, under his description of *Pulex howardii*. Since no holotype was designated by Baker, it would seem that this specimen is a syntype of *P. howardii*, not *P. wickhami* Baker, 1895b:109. A synonym of *Orchopeas howardi howardi* (Baker, 1895b), as suggested by Hopkins, 1954:198.
- wilsoni* Méndez and Haas, 1973. *Megarthroglossus* [97323].  
Annals of the Entomological Society of America, 66(5):1129, figures 1–6.  
USA, Colorado, Larimer County, Bingham Hills, 4.5 mi [7 km] Northwest of Fort Collins [–40.37°N, 105.06°W], from *Peromyscus* sp., 24 October 1969, [CDC Personnel].  
HOLOTYPE ♂, USNM 73332.
- REMARKS.—Allotype female on a separate slide, from F[or]t Collins, Colo.[rado], 3 July [19]69.
- wisemani* Eads, 1951. *Jellisonia* [95110].  
Journal of Parasitology, 37(2):147, plate 1: figures A–D, F, G, plate 2: figures F, G.  
[MEXICO], Jalisco State, 3 mi [5 km] N, Guadalajara, [20.30°N, 103.20°W], from *Peromyscus melanophrys*, 19 January 1949, [J.R. Alcorn], “[J.S.] Wiseman (KU),” “R.H. B[aker],” “K[ansas] M[useum] N[atural] H[istory].”  
HOLOTYPE ♂, Allotype ♀, on separate slides, USNM 60825.
- wisemani* Traub and Evans, 1967b. *Doratopsylla* [96722].  
Pacific Insects, 9(4):628, figures 44–56.  
PAKISTAN, Hazara District, Kaghan Valley, Gitidas, [–34.47°N, 73.36°E], 12,000' [3690 m], from *Hyperacrius* sp. [= *wynnei*], 25 July 1964, R. Traub and A.B. Mirza.  
HOLOTYPE ♂, USNM 69706.

REMARKS.—Allotype female on separate slide, from *Sorex* sp., 26 July 1964.

**wymani** C. Fox, 1909c. *Odontopsyllus* [90925].  
Entomological News, 20(6):241, plate X: figures 1–5.

USA [California, San Francisco County], San Francisco, [37.45°N, 122.27°W], from *Microtus californicus*, 1908, [C.] Fox (penciled in).

LECTOTYPE ♂, USNM 13131.

REMARKS.—We have been unable to determine when, where, and by whom this designation was applied. Now *Catallagia wymani* (C. Fox).

**yunkeri** Tipton and Méndez, 1966. *Wenzella* [96620].  
*Ectoparasites of Panama*, Wenzel and Tipton, editors, page 320, plates 90, 91.

PANAMA, Chiriquí Province, Camino Boquete [~8.5 km

beyond] Bambito–Cerro Punta [Boquete = 08.47°N, 82.25°W], 6900' [2103 m], from *H.[eteromys] desmarestianus*, 9 March 1962, [C.M.] Keenan and [V.J.] Tipton.

HOLOTYPE ♂, USNM 104701.

REMARKS.—Allotype female on separate slide with same data but 7300' [2225 m], 12 March 1962.

**zenoa** Mardon, 1976. *Papuapsylla* [97614].

Australian Journal of Zoology, Supplementary Series, 45:12, figures 7, 29, 46, 73, 74, 83.

[PAPUA] NEW GUINEA, Morobe District, Wau Subdistrict, Kaindi Road near Wau, 8000' elev. [2438 m, ~07.22°S, 146.40°E], from *Rattus* [= *Stenomys*] *niobe*, 25 August 1969, A.B. Mirza.

HOLOTYPE ♂, USNM 103892.

# Appendix 1

## Alphabetical Index of Host/Parasite Names by Species

The following is a listing of the vertebrate hosts from which the flea species treated here were taken. Mammalian hosts are arranged after the classification employed by Wilson and Reeder (1993), while the avian hosts follow the system of Sibley and Monroe (1990). As with other parasites, there are a few species that were not associated with host animals at the time of their description although subsequent collecting has clarified host preferences in some cases. The following taxa were not initially associated with a definitive host. Junior synonyms are preceded by an asterisk.

\**Aptilopsylla carlsbadensis* Ewing  
\**Callopsylla (Callopsylla) fusca* Lewis  
\**Ceratophyllus californicus* Baker  
\**Ceratophyllus canadensis* Baker  
\**Ceratophyllus niger inflexus* Jordan  
\**Ceratophyllus quebecensis* I. Fox  
*Dasypsyllus (Dasypsyllus) gallinulae perpinnatus* (Baker)  
*Dasypsyllus (Neornipsyllus) stejnegeri* (Jordan)  
*Foxella (Afoxella) mexicana* I. Fox.  
*Lentistivalius (Lentistivalius) insolli* (Traub)  
*Macrostylophora hastatus malayensis* Traub  
*Macrostylophora levis* (Jordan and Rothschild)  
*Medwayella veruta* Traub  
\**Megabothris asio orectus* Jordan  
*Meringis shannoni* (Jordan)  
*Myodopsylla setosa* Johnson  
*Opisodysys (Sciuropsylla) robustus robustus* (Jordan)  
\**Oropsylla sinensis* Liu  
*Papuapsylla glyphona* Mardon  
*Papuapsylla roberti* Mardon  
\**Peromyscopsylla spinifrons* I. Fox  
*Phalacropsylla hamata* Tipton and Méndez  
*Rhadinopsylla (Actenophthalmus) heiseri* (McCoy)

The remaining taxa were associated with vertebrate hosts at the time of description.

### Mammalia

#### DIDELPHIMORPHA: DIDELPHIDAE

*Didelphis marsupialis* Linnaeus, 1758  
*Kohlsia tiptoni* Méndez and Altman  
*Polygenis (Hechtiella) nitidus* Johnson  
*Pulex (Pulex) simulans* Baker  
*Marmosa murina* (Linnaeus, 1758)  
*Adoratopsylla (Adoratopsylla) antiquorum rara* Tipton and Machado-Allison

*Monodelphis brevicaudata* (Erxleben, 1777)  
*Adoratopsylla (Adoratopsylla) antiquorum recta* Tipton and Machado-Allison  
*Adoratopsylla (Adoratopsylla) bisetosa* Ewing

#### DIPRODONTIA: PSEUDOCHEIRIDAE

*Pseudocheirus* sp.  
*Muesebeckella mannae* Traub  
*Muesebeckella nadi* Traub

#### XENARTHRA: DASYPODIDAE

*Zaedyus pichiy* (Desmarest, 1804)  
*Malacopsylla grossiventris* (Weyenbergh)

#### XENARTHRA: MYRMECOPHAGIDAE

*Tamandua tetradactyla* (Linnaeus, 1758)  
*Kohlsia falcata* Méndez and Hanssen

#### INSECTIVORA: ERINACEIDAE

*Hylomys suillus* Müller, 1840  
*Cratynius (Cratynius) audyi* (Traub)  
*Cratynius (Cratynius) crypticus* Hopkins and Traub

#### INSECTIVORA: SORICIDAE

*Anourosorex squamipes* Milne-Edwards, 1872  
\**Palaeopsylla remota nesicola* Traub and Evans  
*Blarina brevicauda* (Say, 1823)  
*Doratopsylla blarinae* C. Fox  
*Nearctopsylla (Beringiopsylla) pfitzeri* Benton  
*Blarina carolinensis* (Bachman, 1837)  
*Nearctopsylla (Beringiopsylla) georgiana* Pratt and Harrison  
*Cryptotis* sp.  
*Ctenophthalmus (Alloctenus) expansus myodosus* Traub and Barrera

- Sorex trowbridgii* Baird, 1857  
*Nearctopsylla (Beringiopsylla) princei* Holland and Jameson  
*Soriculus fumidus* Thomas, 1913  
*Palaeopsylla recava* Traub and Evans  
*Soriculus nigrescens* (Gray, 1842)  
*Palaeopsylla helenae* Lewis  
*Palaeopsylla tauberi tauberi* Lewis  
*Stenischia pagiana* Lewis

## INSECTIVORA: TALPIDAE

- Neurotrichus gibbsii* (Baird, 1857)  
*Nearctopsylla (Beringiopsylla) hamata* Holland and Jameson  
*Scalopus* sp.  
*Ctenophthalmus (Nearctoctenophthalmus) pseudagyrtes pseudagyrtes* Baker  
*Scalopus aquaticus* (Linnaeus, 1758)  
*Nearctopsylla (Beringiopsylla) genalis genalis* (Baker)  
*Scapanus latimanus* (Bachman, 1842)  
*Corypsylla ornata* C. Fox  
*Scapanus townsendii* (Bachman, 1839)  
*Nearctopsylla (Beringiopsylla) martyoungi* Hubbard  
*Nearctopsylla (Beringiopsylla) traubi* Hubbard  
*Scaptochirus moschatus* Milne-Edwards, 1867  
*Rhadinopsylla (Micropsylloides) jaonis* Jordan  
*Urotrichus talpoides* Temminck, 1841  
*Palaeopsylla nippon* Jameson and Kumada

## SCANDENTIA: TUPAIIDAE

- Tupaia montana* Thomas, 1892  
*Lentistivalius (Lentistivalius) vomerus* Traub  
*Tupaia tana* Raffles, 1821  
*Medwayella phangi tana* Traub

## CHIROPTERA: EMBALLONURIDAE

- Taphozous melanopogon* Temminck, 1841  
*Araeopsylla elbeli* Traub

## CHIROPTERA: RHINOLOPHIDAE

- Rhinolophus landeri* Martin, 1838  
 \**Lagaropsylla setzeri* Segerman

## CHIROPTERA: VESPERTILIONIDAE

- Eptesicus brasiliensis* (Desmarest, 1819)  
*Hormopsylla cryptica* Tipton and Machado-Allison  
*Eptesicus fuscus* (Beauvois, 1796)  
*Myodopsylla borealis* Lewis  
*Nycteridopsylla chapini* Jordan  
*Myotis oxyotus* (Peters, 1867)  
*Myodopsylla tropica* Méndez and Lemke

- Pipistrellus savii* (Bonaparte, 1837)  
*Nycteridopsylla sakagutii* Jameson and Suyemoto  
*Plecotus townsendii* Cooper, 1837  
*Nycteridopsylla intermedia* Lewis and Wilson

## CHIROPTERA: MOLOSSIDAE

- Molossus molossus* (Pallas, 1766)  
*Ptilopsylla leptina dumni* Kohls  
*Mops thersites* (Thomas, 1903)  
*Lagaropsylla convexus* Segerman  
*Nyctinomops laticaudatus* (E. Geoffroy, 1805)  
*Hormopsylla kyriophila* Tipton and Méndez  
*Tadarida aegyptiaca* (E. Geoffroy, 1818)  
*Araeopsylla wassifi* Traub  
*Tadarida brasiliensis* (I. Geoffroy, 1824)  
*Sternopsylla distincta texana* (C. Fox)

## CARNIVORA: FELIDAE

- Lynx canadensis* Kerr, 1792  
*Odontopsyllus dentatus* (Baker)  
*Lynx rufus* (Schreber, 1777)  
*Euhoplopsyllus glacialis lynx* (Baker)  
*Orchopeas dieteri* (C. Fox)  
*Orchopeas labiatus* (Baker)  
*Thrassis petiolatus* (Baker)  
*Oncifelis colocolo* (Molina, 1782)  
*Ectinorus (Ectinorus) hecate* Johnson

## CARNIVORA: MUSTELIDAE

- Conepatus mesoleucus* (Lichtenstein, 1832)  
 \**Meringis cochisei* Hubbard  
*Galictis vittata* (Schreber, 1776)  
*Rhopalopsyllus luzzi luzzi* (Baker)  
*Melogale orientalis* (Horsfield, 1821)  
*Paraceras javanicum* (Ewing)  
*Mustela* sp.  
*Chaetopsylla (Chaetopsylla) stewarti* Johnson  
*Dactylopsylla pentachaeta* Prince and Stark  
*Mustela frenata* Lichtenstein, 1831  
*Dactylopsylla bluei bluei* (C. Fox)  
*Foxella (Foxella) ignota omissa* Prince  
*Foxella (Afoxella) mexicana* I. Fox  
*Spicata nuditenacula* (Prince)  
*Mustela vison* Schreber, 1777  
 \**Ceratophyllus oculus* Baker  
*Ceratophyllus (Monopsyllus) vison* Baker  
*Paratyphloceras oregonensis* Ewing

## HYRACOIDEA: PROCAVIIDAE

- Procapia capensis* (Pallas, 1766)  
*Procaviopsylla procaviae* (C. Fox)



## ARTIODACTYLA: CERVIDAE

*Axis axis* (Erxleben, 1777)  
*Ancistropsylla nepalensis* Lewis

## RODENTIA: ABROCOMIDAE

*Abrocoma bennetti* Waterhouse, 1837  
*Ectinorus (Ectinorus) chilensis* Lewis

## RODENTIA: APLODONTIDAE

*Aplodontia rufa* (Rafinesque, 1817)  
*Dolichopsyllus stylosus* (Baker)  
 \**Hystrichopsylla mammoth* Chapin  
*Paratyphloceras oregonensis* Ewing  
*Trichopsylloides oregonensis* Ewing

## RODENTIA: BATHYERGIDAE

*Cryptomys bocagei* (de Winton, 1897)  
*Xenopsylla georychi* (C. Fox)

## RODENTIA: CTENOMYIDAE

*Ctenomys peruanus* Sanborn and Pearson, 1947  
*Ectinorus (Ectinorus) hertigi* (Johnson)

## RODENTIA: SCIURIDAE: SCIURINAE

*Ammospermophilus harrisi* (Audubon and Bachman, 1854)  
*Thrassis bacchi setosis* Prince  
*Ammospermophilus leucurus* (Merriam, 1889)  
*Thrassis bacchi caducus* (Jordan)  
*Thrassis peninsularis* Lewis  
*Ammospermophilus nelsoni* (Merriam, 1893)  
*Thrassis augustoni* Hubbard  
*Callosciurus* sp.  
*Macrostylophora hastata nepali* Traub  
*Callosciurus nigrovittatus* (Horsfield, 1824)  
*Medwayella robinsoni tiomanica* Traub  
*Callosciurus notatus* (Boddaert, 1785)  
*Medwayella robinsoni bogora* Traub  
*Medwayella robinsoni peregrinata* Traub  
*Callosciurus prevosti* (Desmarest, 1822)  
*Farhangia sciuri* (Ewing)  
*Cynomys gunnisoni* (Baird, 1855)  
 \**Opisocrostitis ornatus* I. Fox  
*Cynomys ludovicianus* (Ord, 1815)  
*Foxella (Foxella) ignota apachina* (C. Fox)  
*Oropsylla (Opisocrostitis) hirsuta* (Baker)  
*Oropsylla (Opisocrostitis) tuberculata cynomuris* (Jellison)  
*Dremomys lokriah* (Hodgson, 1836)  
*Rowleyella arborea* Lewis  
*Lariscus insignis* (F. Cuvier, 1821)  
*Medwayella batibacula* Traub  
*Marmota monax* (Linnaeus, 1758)

*Opisodasys (Opisodasys) pseudarctomys* (Baker)  
*Oropsylla (Oropsylla) arctomys* (Baker)  
*Marmota olympus* (Merriam, 1898)  
*Oropsylla (Oropsylla) eatoni* Hubbard  
 \**Thrassis fousti* Hubbard  
*Menetes berdmorei* (Blyth, 1849)  
*Medwayella thurmani* Traub  
*Paraxerus vexillarius* (Kershaw, 1923)  
*Libyastus smiti* Johnson  
*Prosciurillus murinus* (Müller and Schlegel, 1844)  
*Farhangia celebensis* (Ewing)  
*Rhinosciurus laticaudatus* (Müller, 1840)  
*Medwayella dryadosa* Traub  
*Medwayella limi* Traub  
*Sciurus aberti* Woodhouse, 1853  
 \**Anomiopsyllus princei* Barnes  
*Oropsylla (Diamanus) montana* (Baker)  
*Sciurus deppei* Peters, 1863  
*Kohlsia graphis erana* Traub  
*Sciurus griseus* Ord, 1818  
*Eumolpianus fornacis* (Jordan)  
*Opisodasys (Sciuropsylla) enoplus* (Rothschild)  
*Sciurus nayaritensis* J.A. Allen, 1890  
 \**Opisodasys spatiosus* I. Fox  
*Sciurus niger* Linnaeus, 1758  
*Orchopeas howardi howardi* (Baker)  
*Orchopeas howardi texensis* Eads  
*Spermophilus* sp.  
 \**Ceratophyllus proximus* Baker  
*Spermophilus armatus* Kennicott, 1863  
*Thrassis francisi barnesi* Stark  
*Spermophilus beldingi* Merriam, 1888  
*Oropsylla (Hubbardipsylla) oregonensis* (Good and Prince)  
*Thrassis francisi sierrae* Stark  
*Thrassis pandorae jellisoni* Hubbard  
*Spermophilus columbianus* (Ord, 1815)  
*Oropsylla (Oropsylla) idahoensis* (Baker)  
*Oropsylla (Opisocrostitis) tuberculata tuberculata* (Baker)  
*Spermophilus lateralis* (Say, 1823)  
*Plusaetis asetis* (Traub)  
*Spermophilus mollis* Kennicott, 1863  
*Thrassis francisi francisi* (C. Fox)  
*Spermophilus parryi* (Richardson, 1825)  
*Oropsylla (Oropsylla) alaskensis* (Baker)  
 \**Ceratophyllus bertholffi* C. Fox  
*Spermophilus richardsonii* (Sabine, 1822)  
*Thrassis pandorae pandorae* Jellison  
*Spermophilus pilosoma* Bennett, 1833  
*Thrassis bacchi consimilis* Stark  
*Spermophilus townsendii* Bachman, 1839  
*Oropsylla (Hubbardipsylla) washingtonensis* (Good and Prince)  
*Thrassis francisi rockwoodi* Hubbard

*Spermophilus tridecemlineatus* (Mitchell, 1821)  
 \**Thrassis brennani* Augustson  
*Oropsylla (Opisocrotis) bruneri* (Baker)  
 \**Ceratophyllus citelli* Stewart  
*Spermophilus variegatus* (Erxleben, 1777)  
 \**Pulex irritans* var. *dugesii* Baker  
*Sundasciurus tenuis* (Horsfield, 1824)  
*Medwayella phangi phangi* Traub  
*Tamias amoenus* J.A. Allen, 1890  
*Ceratophyllus (Amonopsyllus) ciliatus kincaidi* (Hubbard)  
*Eumolpianus wallowensis* (Hubbard)  
*Tamias merriami* J.A. Allen, 1889  
*Eumolpianus fornacis* (Jordan)  
*Tamias minimus* Bachman, 1839  
*Eumolpianus eumolpi americanus* (Hubbard)  
 \**Monopsyllus eumolpi canadensis* Hubbard  
*Tamias palmeri* (Merriam, 1897)  
 \**Monopsyllus eumolpi charlestonensis* Hubbard  
*Tamias ruficaudus* (A. H. Howell, 1920)  
 \**Monopsyllus ciliatus fasteni* Hubbard  
*Tamiasciurus douglasi* (Bachman, 1839)  
 \**Megarhroglossus procus oregonensis* Hubbard  
*Tamiasciurus hudsonicus* (Erxleben, 1777)  
 \**Ceratophyllus lucidus* Baker  
*Megarhroglossus divisus* (Baker)  
 \**Megarhroglossus divisus wallowensis* Hubbard  
 \**Monopsyllus vison reeheri* Hubbard  
 \**Pulex gillettei* Baker  
*Tarsopsylla octodecimdentata coloradensis* (Baker)

## RODENTIA: SCIURIDAE: PETAURISTINAE

*Glaucomys sabrinus* (Shaw, 1801)  
 \**Opisodasys jellisoni* I. Fox  
*Opisodasys (Opisodasys) vesperalis* (Jordan)  
*Glaucomys volans* (Linnaeus, 1758)  
 \**Ceratophyllus wickhami* Baker  
*Hylotes lepidus* (Horsfield, 1824)  
*Hollandipsylla neali* Traub  
*Petaurista elegans* (Müller, 1840)  
*Smitipsylla maseri* Lewis

## RODENTIA: GEOMYIDAE

*Geomys bursarius* (Shaw, 1800)  
*Foxella (Foxella) ignota ignota* (Baker)  
*Pappogeomys castanops* (Baird, 1852)  
*Dactylopsylla percernis* Eads and Menzies  
*Thomomys* sp.  
*Dactylopsylla stimsoni* (C. Fox)  
*Thomomys bottae* (Eyedoux and Gervais, 1836)  
*Dactylopsylla bluei psila* Prince and Stark  
*Dactylopsylla neomexicana* Prince  
*Spicata botticeps* (Hubbard)  
*Thomomys mazama* Merriam, 1897  
*Spicata moorei oregona* (Hubbard)

*Spicata pacifica* (Hubbard)  
*Thomomys monticola* J.A. Allen, 1893  
*Spicata comis comis* (Jordan)  
*Spicata monticola* (Prince)  
*Thomomys talpoides* (Richardson, 1828)  
*Foxella (Foxella) ignota arizonensis* Hubbard  
*Spicata comis comis* (Jordan)  
*Spicata comis scapoosae* (Hubbard)  
*Spicata comis tacomae* (Hubbard)  
*Spicata minidoka* (Prince and Stark)  
*Spicata moorei moorei* (Hubbard)  
*Spicata rara* (I. Fox)  
*Thomomys umbrinus* (Richardson, 1829)  
*Foxella (Afoxella) mexicana* I. Fox

## RODENTIA: HETEROMYIDAE

*Chaetodipus nelsoni* Merriam, 1894  
*Meringis agilis* Eads  
*Dipodomys* sp.  
*Meringis parkeri* (Jordan)  
 \**Monopsyllus exilis triptus* Jordan  
*Dipodomys agilis* Gambel, 1848  
*Meringis cummingsi* (C. Fox)  
*Dipodomys deserti* Stephens, 1887  
*Thrassis aridis hoffmani* (Hubbard)  
*Dipodomys heermanni* LeConte, 1853  
*Thrassis aridis arcuatus* Stark  
*Dipodomys merriami* Means, 1890  
*Meringis disparilis* Eads  
*Meringis vitabilis* Eads  
*Thrassis aridis aridis* Prince  
*Dipodomys ordii* Woodhouse, 1853  
*Meringis facilis* Eads  
 \**Monopsyllus exilis opadus* Jordan  
*Thrassis aridis campestris* Prince  
*Dipodomys spectabilis* Merriam, 1890  
*Meringis arachis* Jordan  
*Meringis nidi* Williams and Hoff  
*Meringis rectus* Morlan  
*Heteromys desmarestianus* Gray, 1868  
*Wenzella yunkerii* Tipton and Méndez  
*Peroganthus flavus* Baird, 1855  
*Meringis jamesoni* Hubbard  
*Peroganthus merriami* J.A. Allen, 1892  
*Meringis agilis* Eads  
*Peroganthus parvus* (Peale, 1848)  
 \**Meringis jewetti* Hubbard  
 \**Meringis walkeri* Hubbard

## RODENTIA: DIPODIDAE

*Allactaga elater* (Lichtenstein, 1828)  
*Ophthalmopsylla (Ophthalmopsylla) volgensis impersia*  
 Traub and Evans

*Allactaga tetradactyla* (Lichtenstein, 1823)  
*Hopkinsipsylla occulta occulta* Traub  
*Jaculus orientalis* Erxleben, 1777  
*Mesopsylla tuschkan propinacta* Traub and Evans

## RODENTIA: MURIDAE: ARVICOLINAE

*Alticola* sp.  
*Neopsylla mantissa* Lewis  
*Neopsylla pagea* Lewis  
*Paradoxopsyllus magnificus* Lewis  
*Alticola roylei* Gray, 1842  
*Callopsylla (Callopsylla) mygala* (Lewis)  
*Callopsylla (Callopsylla) sparsilis atallahi* (Lewis)  
*Alticola stoliczkanus* (Blanford, 1875)  
*Amphipsylla kulkarnii* Lewis  
*Clethrionomys gapperi* (Vigors, 1830)  
*Rhadinopsylla (Actenophthalmus) media* Smit  
*Stenoponia americana* (Baker)  
*Clethrionomys rufocanus* (Sundevall, 1846)  
*Rhadinopsylla (Actenophthalmus) attenuata* Jameson and Sakaguti  
*Eothenomys melanogaster* (Milne-Edwards, 1871)  
*Ctenophthalmus (Sinoctenophthalmus) taiwanus taiwanus* Smit  
*Hyperacrius wynnei* (Blanford, 1881)  
*Doratopsylla wissemanni* Traub and Evans  
*Palaeopsylla setzeri* Traub and Evans  
*Lemmiscus curtatus* (Cope, 1868)  
*Amphipsylla washingtona* Hubbard  
*Megabothris (Amegabothris) clantoni* Hubbard  
*\*Megabothris clantoni johnsoni* Hubbard  
*\*Megabothris princei* Hubbard  
*Thrassis bacchi johnsoni* Hubbard  
*Microtus* sp.  
*\*Leptopsylla hamifer longiloba* Jordan  
*Peromyscopsylla hamifer vigens* (Jordan)  
*Microtus californicus* (Peale, 1848)  
*Atyphloceras multidentatus multidentatus* (C. Fox)  
*Catallagia wymani* (C. Fox)  
*Microtus guentheri* (Danford and Alston, 1880)  
*Ctenophthalmus (Ctenophthalmus) bifidatus bifidatus* Smit  
*Rhadinopsylla (Actenophthalmus) hoogstraali* Lewis  
*Microtus mexicanus* (Saussure, 1861)  
*Plusaetis asetis* (Traub)  
*Microtus oregoni* (Bachman, 1839)  
*Amalaraeus dobbsi* (Hubbard)  
*Microtus pennsylvanicus* (Ord, 1815)  
*Amphipsylla marikovskii ewingi* I. Fox  
*Catallagia borealis* Ewing  
*Megabothris (Megabothris) asio megacolpus* (Jordan)  
*Rhadinopsylla (Actenophthalmus) orama* Smit  
*Microtus townsendii* (Bachman, 1839)  
*\*Corypsylloides spinata* I. Fox

*Phaulomys smithi* (Thomas, 1905)  
*Rhadinopsylla (Actenophthalmus) attenuata* Jameson and Sakaguti

## RODENTIA: MURIDAE: GERBILLINAE

*Pachyuromys duprasi* Lataste, 1880  
*Hopkinsipsylla occulta praeceps* Traub

## RODENTIA: MURIDAE: MURINAE

*Acomys russatus* (Wagner, 1840)  
*Nosopsyllus (Penicus) geneatus* Traub  
*Anisomys* sp.  
*Papuapsylla gurrlicos* Mardon  
*Anisomys imitator* Thomas, 1904  
*Papuapsylla maxima* Mardon  
*Apodemus* sp.  
*\*Ctenophthalmus (Ctenophthalmus) lydiae* Lewis  
*Paradoxopsyllus oribatus* Lewis  
*Apodemus agrarius* (Pallas, 1771)  
*Peromyscopsylla hamifer cuneata* Johnson and Traub  
*Apodemus mystacinus* (Danford and Alston, 1877)  
*\*Ctenophthalmus (Medioctenophthalmus) costai libanensis* Lewis  
*Apodemus speciosus* (Temminck, 1844)  
*Atyphloceras shogakii* Jameson and Sakaguti  
*Lentistivalius (Lentistivalius) aestivalius* Jameson and Sakaguti  
*Neopsylla sasai* Jameson and Kumada  
*Apodemus sylvaticus* (Linnaeus, 1758)  
*\*Ctenophthalmus russulae tangerensis* Hastriter and Tipton  
*\*Frontopsylla (Frontopsylla) hollandi* Lewis  
*Arvicanthus niloticus* (Desmarest, 1822)  
*Nosopsyllus (Nosopsyllus) londiniensis declivus* Traub  
*Coccymys ruemmleri* (Tate and Archbold, 1941)  
*Tiflovia pachnopoata* Traub  
*Tiflovia stellalpestris* Traub  
*Hybomys trivirgatus* (Temminck, 1853)  
*Ctenophthalmus (Ethioctenophthalmus) ghanensis* Segerman  
*Leopoldamys edwardsi* (Thomas, 1882)  
*Rothschildiana smiti* Traub  
*Lophuromys* sp.  
*Ctenophthalmus (Ethioctenophthalmus) hoogstraali* Traub  
*Mastomys coucha* (Smith, 1834)  
*Ctenophthalmus (Ethioctenophthalmus) calceatus tholatus* Traub  
*Mastomys natalensis* (Smith, 1834)  
*Leptopsylla (Leptopsylla) algira agadirensis* Hastriter and Tipton  
*Maxomys alticola* (Thomas, 1888)  
*Rothschildiana smiti* Traub  
*Sigmactenus alticola* Traub

- Maxomys musschenbroeki* (Jentink, 1878)  
*Sigmactenus celebensis* Lewis and Jones  
*Gryphopsylla (Migrastivalius) hetera* Lewis and Jones  
*Maxomys whiteheadi* (Thomas, 1894)  
*Gryphopsylla (Gryphopsylla) hopkinsi* Traub  
*Melomys* sp.  
*Papuapsylla hollandi* Mardon  
*Melomys rattoides* Thomas, 1922  
*Paradoxopsyllus mustangensis* Lewis  
*Mus* sp.  
*Acropsylla traubi* Lewis  
*Mus musculus* Linnaeus, 1758  
*Acropsylla episema girshami* Traub  
*Paradoxopsyllus hollandi* Lewis  
*Niviventer fulvescens* (Gray, 1847)  
*\*Neopsylla marleanae* Lewis  
*Rattus* sp.  
*Orthopsylloides orthodactylus orthodactylus* Holland  
*Orthopsylloides orthodactylus owiensis* Holland  
*Paradoxopsyllus paraphaeopus* Lewis  
*Paradoxopsyllus spinosus* Lewis  
*Rattus exulans* (Peale, 1848)  
*Stivalius cognatus spiramus* Jordan  
*Stivalius exoticus* Lewis and Jones  
*Rattus nitidus* (Hodgson, 1845)  
*Paradoxopsyllus digitatus* Lewis  
*Rattus norvegicus* (Berkenhout, 1769)  
*Foxella (Foxella) ignota clantoni* Hubbard  
*Polygenis (Polygenis) gwyni* (C. Fox)  
*Xenopsylla brasiliensis* (Baker)  
*Rattus rattus* (Linnaeus, 1758)  
*Bibikovana tiptoni* (Traub)  
*Hectopsylla suarezi* C. Fox  
*Papuapsylla minima* Mardon  
*\*Typhlopsylla mexicana* Baker  
*Rattus tanezumi* Temminck, 1844  
*Stivalius cognatus bamus* Traub  
*Rattus turkestanicus* (Satunin, 1903)  
*Paradoxopsyllus acanthus* Lewis  
*Stenomys niobe* (Thomas, 1906)  
*Papuapsylla magna* Mardon  
*Papuapsylla perplexa* Mardon  
*Papuapsylla zenoa* Mardon  
*Sundamys infraluteus* (Thomas, 1888)  
*Neopsylla luma* Traub
- RODENTIA: MURIDAE: SIGMODONTINAE
- Akodon albiventer* Thomas, 1897  
*Tetrapsyllus (Phylliver) elutus* Johnson  
*Baiomys musculus* (Merriam, 1892)  
*Anomiopsyllus oaxacae* Barnes  
*Chroeomys jelskii* (Thomas, 1894)  
*Tetrapsyllus (Phylliver) tristis* Johnson  
*Euneomys mordax* Thomas, 1912  
*Agastopsylla nylota euneomys* Lewis and Spotorno  
*Isthmomyz flavidus* (Bangs, 1902)  
*Kohlsia azuerensis* Tipton and Méndez  
*Melanomys caliginosus* (Tomes, 1860)  
*Polygenis (Polygenis) caucensis* Méndez  
*Polygenis (Polygenis) delpontei* Méndez  
*Polygenis (Polygenis) trapidoi trapidoi* Méndez  
*Scolopsyllus colombianus* Méndez  
*Neotoma* sp.  
*Amaradix bitterrootensis vonfintelis* (Prince)  
*Orchopeas sexdentatus sexdentatus* (Baker)  
*Peromyscopsylla hesperomys ravalliensis* (Dunn)  
*Neotoma albigula* Hartley, 1894  
*Anomiopsyllus nidiophilus* Tipton and Méndez  
*Anomiopsyllus nudatus nudatus* (Baker)  
*Thrassis arizonensis* (Baker)  
*Neotoma cinerea* (Ord, 1815)  
*Megarhthroglossus becki* Tipton and Allred  
*Megarhthroglossus cavernicolus* Méndez and Haas  
*Neotoma floridana* (Ord, 1818)  
*Conorhinopsylla nidicola* Jellison  
*Eptedia cavernicola* Traub  
*Neotoma fuscipes* Baird, 1858  
*Anomiopsyllus falsicalifornicus falsicalifornicus* C. Fox  
*Anomiopsyllus walkeri* Barnes  
*Carteretta carteri* C. Fox  
*Peromyscopsylla ebrighti* (C. Fox)  
*Neotoma lepida* Thomas, 1893  
*Megarhthroglossus smiti* Méndez  
*Phalacropsylla oregonensis* Lewis and Maser  
*Traubella neotomae* (I. Fox)  
*Neotoma mexicana* Baird, 1855  
*Megarhthroglossus weaveri* Eads and Campos  
*Phalacropsylla nivalis* Barrera and Traub  
*Neotoma micropus* Baird, 1855  
*Anomiopsyllus hiemalis* Eads and Menzies  
*Anomiopsyllus novomexicanensis* Williams and Hoff  
*Ctenophthalmus (Nearctoctenophthalmus) pseudagyrtis micropus* Traub  
*Orchopeas sexdentatus intermedius* Hubbard  
*Neotoma phenax* (Merriam, 1903)  
*Orchopeas sexdentatus firemani* Hubbard  
*Oligorizomys fulvescens* (Saussure, 1860)  
*Baculomeris altmani* (Tipton and Méndez)  
*Onychomys* sp.  
*\*Monopsyllus exilis triptus* Jordan  
*Onychomys leucogaster* (Wied-Neuwied, 1841)  
*Dactylopsylla digitenua* Prince and Stark  
*\*Monopsyllus exilis kansensis* Hubbard  
*Pleochaetis exilis* (Jordan)  
*Rhadinopsylla (Actenophthalmus) multidenticulata* (Morlan and Prince)  
*\*Thrassis princei* Hubbard

*Oryzomys albigularis* (Tomes, 1860)  
*Polygenis (Polygenis) hopkinsi* Méndez

*Peromyscus* sp.  
 \**Ceratophyllus peromysci* Stewart  
*Kohlsia uniseta* Traub  
*Megarhroglossus wilsoni* Méndez and Haas  
 \**Malaraeus jordani* I. Fox  
*Peromyscopsylla hesperomys hesperomys* (Baker)  
*Plusaetis vermiformis* (Traub)

*Peromyscus boylii* (Baird, 1855)  
*Catallagia mathesoni* Jameson  
*Stenoponia ponera* Traub and Johnson  
*Strepsylla schmidti* Traub and Barrera

*Peromyscus crinitus* (Merriam, 1891)  
*Traubella grundmanni* Egoscue

*Peromyscus difficilis* (J.A. Allen, 1891)  
*Hystrihopsylla occidentalis sylvaticus* Campos and Stark  
*Strepsylla villai* Traub and Barrera

*Peromyscus eremicus* (Baird, 1858)  
*Carteretta clavata* Good  
*Jordanopsylla allredi* Traub and Tipton  
*Malaraeus eremicus* (Baker)  
*Stenistomera macrodactyla* Good

*Peromyscus leucopus* (Rafinesque, 1818)  
*Aetheca wagneri* (Baker)  
*Orchopeas leucopus* (Baker)  
*Peromyscopsylla scotti* I. Fox

*Peromyscus maniculatus* (Wagner, 1845)  
*Carteretta carteri* C. Fox  
*Catallagia calisheri* Eads and Campos  
*Catallagia neweyi* Holland and Loshbaugh  
 \**Micropsylla peromyscus* Dunn  
 \**Monopsyllus wagneri kylei* Hubbard  
*Opisocrostis (Oxypsylla) keeni* (Baker)  
*Rhadinopsylla (Micropsylla) sectilis goodi* (Hubbard)  
*Stenistomera hubbardi* Egoscue  
*Tunga (Tunga) monositus* Barnes and Radovsky

*Peromyscus melanophrys* (Coues, 1874)  
*Jellisonia wisemani* Eads

*Peromyscus mexicanus* (Saussure, 1860)  
*Jellisonia johnsonae* Tipton and Méndez  
*Kohlsia cora* Traub  
*Kohlsia gammonsi* Traub  
*Kohlsia keenani* Tipton and Méndez  
*Kohlsia mojica* Tipton and Méndez  
*Kohlsia traubi* Tipton and Méndez

*Peromyscus pectoralis* Osgood, 1904  
*Jellisonia bullisi* (Augustson)

*Phyllotis* sp.  
*Ectinorus (Ectinorus) pearsoni* Johnson  
*Plocopsylla viracocha* Schramm and Lewis

*Phyllotis darwini* (Waterhouse, 1837)  
*Plocopsylla inti* Johnson

*Podomys floridanus* (Chapman, 1889)  
*Polygenis (Polygenis) floridanus* Johnson and Layne

*Reithrodontomys sumichrasti* (Saussure, 1861)  
*Baculomeris altmani* (Tipton and Méndez)

*Rhipidomys venustus* Thomas, 1900  
*Ctenidiosomus perplexus* Tipton and Machado-Allison

*Scotinomys teguina* (Alston, 1877)  
*Jellisonia johnsonae* Tipton and Méndez

*Scotinomys xerampelinus* (Bangs, 1902)  
*Plocopsylla scotonomi* Tipton and Méndez

*Sigmodon hispidus* Say and Ord, 1825  
 \**Polygenis ambersoni* Traub and Johnson

*Thomasomys* sp.  
*Plocopsylla kilya* Schramm and Lewis

*Thomasomys cinereiventer* J.A. Allen, 1912  
*Plocopsylla nungui* Schramm and Lewis

*Tylomys panamensis* (Gray, 1873)  
*Kohlsia tiptoni* Méndez and Altman

## RODENTIA: MURIDAE: SPALACINAE

*Nannospalax ehrenbergi* (Nehring, 1898)  
*Ctenophthalmus (Medioctenophthalmus) costai* Lewis  
 \**Ctenophthalmus (Euctenophthalmus) levanticus israeli-*  
*cus* Lewis  
*Rhadinopsylla (Rhadinopsylla) golana* Lewis and Burt

*Nannospalax leucodon* Nordmann, 1840  
*Ctenophthalmus (Palaeoctenophthalmus) reconditus* Peus

## RODENTIA: MYOXIDAE

*Eliomys melanurus* (Wagner, 1839)  
 \**Myoxopsylla (Myoxopsylla) laverani traubi* Lewis [New  
 synonymy]

## RODENTIA: OCTODONTIDAE

*Aconaemys fuscus* (Gray, 1847)  
*Ectinorus (Ectinorus) martini* Lewis

## LAGOMORPHA: OCHOTONIDAE

*Ochotona* sp.  
*Geusibia (Spinopsylla) triangularis* (Lewis)

*Ochotona princeps* (Richardson, 1828)  
*Phalacropsylla morlani* Eads and Campos

*Ochotona roylei* (Ogilby, 1839)  
*Aconothobius orientalis* (Lewis, Kulkarni, and Bhat)  
*Chaetopsylla (Chaetopsylla) gracilis* Lewis  
*Genoneopsylla thysanota* (Traub)  
*Paraneopsylla ioffi nepali* Lewis

## LAGOMORPHA: LEPORIDAE

*Lepus* sp.  
*Cediopsylla inaequalis inaequalis* (Baker)

*Cediopsylla simplex* Baker  
*Lepus americanus* Erxleben, 1777  
 \**Odontopsyllus spenceri* Dunn  
*Sylvilagus* sp.  
*Meringis hubbardi* Kohls  
*Sylvilagus bachmani* (Waterhouse, 1839)  
*Euhoplopsyllus glacialis foxi* (Ewing)  
 \**Hoplopsyllus minutus* C. Fox  
 \**Hoplopsyllus powersi* C. Fox  
*Sylvilagus floridanus* (J.A. Allen, 1890)  
*Odontopsyllus multispinosus* (Baker)

#### Aves

*Anas clypeata* Linnaeus, 1758  
 \**Ceratophyllus utahensis* Chapin  
*Bubo virginianus* (Gmelin, 1788)  
*Anomiopsyllus montanus* Collins  
*Carpodacus erythrinus* (Pallas, 1770)  
 \**Callopsylla (Orneacus) fusca* Lewis

*Glaucidium jardirii* (Bonaparte, 1855)  
*Ceratophyllus (Ceratophyllus) altus* Tipton and Méndez  
*Gallus gallus* (Linnaeus, 1758)  
 \**Ceratophyllus gibsoni* C. Fox  
*Hirundo fulva* Vieillot, 1807  
*Ceratophyllus (Ceratophyllus) celsus apricus* Jordan  
*Ceratophyllus (Ceratophyllus) coahuilensis* Eads  
*Hirundo rustica* Linnaeus, 1758  
*Ceratophyllus (Ceratophyllus) affinis neglectus* Smit  
*Otus asio* (Linnaeus, 1758)  
*Megabothris (Megabothris) asio asio* (Baker)  
*Picoides pubescens* (Linnaeus, 1776)  
 \**Ornithophaga nearctica* Holland and Loshbaugh  
*Rissa brevirostris* (Bruch, 1853)  
*Miostenopsylla traubi traubi* Holland and Jellison  
*Speotyto cunicularia* (Molina, 1782)  
 \**Megabothris obscurus* Holland  
*Steganopus tricolor* (Vieillot, 1819)  
 \**Ceratophyllus utahensis* Chapin  
*Xema sabini* (Sabine, 1819)  
*Miostenopsylla arctica hadweni* (Ewing)

## Appendix 2

### Junior Synonyms and Their Equivalents

- ambersoni* Traub and Johnson *Polygenis* = *Polygenis* (*Polygenis*) *dunni* (Jordan and Rothschild)
- bertholffi* C. Fox *Ceratophyllus* = *Oropsylla* (*Oropsylla*) *idahoensis* (Baker)
- brennani* Augustson *Thrassis* = *Thrassis* *fotus* (Jordan)
- californicus* Baker *Ceratophyllus* = *Nosopsyllus* (*Nosopsyllus*) *fasciatus* (Bosc)
- canadensis* Baker *Ceratophyllus* = *Nosopsyllus* (*Nosopsyllus*) *fasciatus* (Bosc)
- canadensis* Hubbard *Monopsyllus eumolpi* = *Eumolpianus eumolpi eumolpi* (Rothschild)
- carlsbadensis* Ewing *Aptilopsylla* = *Sternopsylla distincta texana* (C. Fox)
- charlestonensis* Hubbard *Monopsyllus eumolpi* = *Eumolpianus cyrturus* (Jordan)
- citelli* Stewart *Ceratophyllus* = *Thrassis* *fotus* (Jordan)
- cochisei* Hubbard *Meringis* = *Meringis arachis* (Jordan)
- dugesii* Baker *Pulex irritans* var. = *Pulex* (*Pulex*) *simulans* Baker
- fasteni* Hubbard *Monopsyllus ciliatus* = *Ceratophyllus* (*Amonopsyllus*) *ciliatus kincaidi* (Hubbard)
- fousti* Hubbard *Thrassis* = *Thrassis petiolatus* (Baker)
- fusca* Lewis *Callopsylla* (*Orneacus*) = *Megabothris* (*Kueichenlipsylla*) *rhipisoides* Li and Wang
- gibsoni* C. Fox *Ceratophyllus* = *Ceratophyllus* (*Ceratophyllus*) *gallinae* (Schrank)
- gillettei* Baker *Pulex* = *Orchopeas howardi howardi* (Baker)
- hollandi* Lewis *Frontopsylla* (*Frontopsylla*) = *Frontopsylla* (*Frontopsylla*) *adixsterna* Liu, Shao, and Liu
- inflexus* Jordan *Ceratophyllus niger* = *Ceratophyllus* (*Ceratophyllus*) *niger* C. Fox
- israelicus* Lewis *Ctenophthalmus* (*Euctenophthalmus*) *levanticus* = *Ctenophthalmus* (*Euctenophthalmus*) *levanticus* Lewis
- jellisoni* I. Fox *Opisodasys* ♂ = *Tarsopsylla octodecimentata coloradensis* (Baker)  
♀ = *Opisodasys* (*Opisodasys*) *vesperalis* (Jordan)
- jewetti* Hubbard *Meringis* = *Meringis hubbardi* Kohls
- johnsoni* Hubbard *Megabothris clantoni* = *Megabothris* (*Amegabothris*) *clantoni* Hubbard
- jordani* I. Fox *Malaraeus* = *Amaradix euphorbi* (Rothschild)
- kansensis* Hubbard *Monopsyllus exilis* = *Pleochaetis exilis* (Jordan)
- kylei* Hubbard *Monopsyllus wagneri* = *Aetheca wagneri* (Baker)
- libanensis* Lewis *Ctenophthalmus* (*Medioctenophthalmus*) *costai* = *Ctenophthalmus* (*Medioctenophthalmus*) *costai* Lewis
- longiloba* Jordan *Leptopsylla hamifer* = *Peromyscopsylla ostsiberica* (Scalon)
- lucidus* Baker *Ceratophyllus* = *Ceratophyllus* (*Monopsyllus*) *vison* Baker
- lydiae* Lewis *Ctenophthalmus* (*Ctenophthalmus*) = *Ctenophthalmus* (*Ctenophthalmus*) *fransmiti* Suci
- mammoth* Chapin *Hystrichopsylla* = *Hystrichopsylla schefferi* Chapin
- marleanae* Lewis *Neopsylla* = *Neopsylla stevensi stevensi* Rothschild
- mexicanus* Baker *Typhlopsylla* = *Leptopsylla* (*Leptopsylla*) *segnis* (Schönherr)
- minutus* C. Fox *Hoplopsyllus* = *Euhoplopsyllus glacialis foxi* (Ewing)
- nearctica* Holland and Loshbaugh *Ornithophaga* = *Ornithophaga anomala anomala* Mikulin
- nesicola* Traub and Evans *Palaeopsylla remota* = *Paleopsylla remota* Jordan
- obscurus* Holland *Megabothris* = *Megabothris* (*Amegabothris*) *clantoni* Hubbard

- oculatus* Baker *Ceratophyllus* = *Nosopsyllus* (*Nosopsyllus*) *fasciatus* (Bosc)  
*opadus* Jordan *Monopsyllus exilis* = *Pleochaetis exilis* (Jordan)  
*orectus* Jordan *Megabothris asio* = *Megabothris asio* (Baker)  
*oregonensis* Hubbard *Megarhroglossus procus* = *Megarhroglossus procus* Jordan and Rothschild  
*ornatus* I. Fox *Opisocrostis* = *Oropsylla* (*Opisocrostis*) *tuberculata cynomuris* (Jellison)  
*peromysci* Stewart *Ceratophyllus* = *Aetheca wagneri* (Baker)  
*peromyscus* Dunn *Micropsylla* = *Rhadinopsylla* (*Micropsylla*) *sectilis sectilis* Jordan and Rothschild  
*powersi* C. Fox *Hoplopsyllus* = *Euhoplopsyllus glacialis foxi* (Ewing)  
*princei* Barnes *Anomiopsyllus* = *Anomiopsyllus martini* Holland  
*princei* Hubbard *Megabothris* = *Megabothris* (*Amegabothris*) *clantoni* Hubbard  
*princei* Hubbard *Thrassis* = *Thrassis fatus* (Jordan)  
*proximus* Baker *Ceratophyllus* = *Thrassis arizonensis* (Baker)  
*quebecensis* I. Fox *Ceratophyllus* = *Ceratophyllus* (*Emmareus*) *garei* Rothschild  
*reeheri* Hubbard *Monopsyllus vison* = *Ceratophyllus* (*Monopsyllus*) *vison* Baker  
*setzeri* Segerman *Lagaropsylla* = *Lagaropsylla idae* Smit  
*sinensis* Liu *Oropsylla* = *Paraceras melis flabellum* Wagner  
*spatiosus* I. Fox *Opisodasys* = *Opisodasys* (*Sciuropsylla*) *robustus robustus* (Jordan)  
*spenceri* Dunn *Odontopsylla* = *Odontopsyllus dentatus* (Baker)  
*spinata* I. Fox *Corypsylloides* = *Corypsylla kohlsi* Hubbard  
*spinifrons* I. Fox *Peromyscopsylla* = *Peromyscopsylla hesperomys hesperomys* (Baker)  
*tangerensis* Hastriter and Tipton *Ctenophthalmus russulae* = *Ctenophthalmus* (*Medioctenophthalmus*) *russulae galloibericus* Beaucournu and Lumaret  
*traubi* Lewis *Myoxopsylla laverani* = *Myoxopsylla* (*Myoxopsylla*) *laverani* (Rothschild)  
 [New synonymy]  
*triptus* Jordan *Monopsyllus exilis* = *Pleochaetis exilis* (Jordan)  
*utahensis* Chapin *Ceratophyllus* = *Ceratophyllus* (*Emmareus*) *garei* Rothschild  
*walkeri* Hubbard *Meringis* = *Meringis hubbardi* Kohls  
*wallowensis* Hubbard *Megarhroglossus divisus* = *Megarhroglossus divisus* (Baker)  
*wickhami* Baker *Ceratophyllus* = *Orchopeas howardi howardi* (Baker)



## Appendix 3

### Type Localities

The following is a listing of all primary types of Siphonaptera in the collection, arranged alphabetically by locality. Entries are not as detailed as those in the text and do not include much of the information available elsewhere. Synonyms are indicated by an asterisk (\*).

- Angola**  
Bié-Cubango Province  
sine loco  
*Xenopsylla georychi* C. Fox
- Argentina**  
sine loco  
*Malacopsylla grossiventris* Weyenbergh
- Brazil**  
Acre State  
Santa Maria  
*Adoratopsylla (Adoratopsylla) bisetosa* Ewing  
Bahia State  
Ilhéus, Faz  
*Polygenis (Hechtiella) nitidus* Johnson  
Sao Paulo State  
Sao Paulo  
*Rhopalopsyllus lutzi lutzi* (Baker)  
*Xenopsylla brasiliensis* (Baker)
- Burma**  
Near Myitkyina  
*Acropsylla episema girshami* Traub
- Canada**  
British Columbia  
Graham Island, Masset  
*Dasypsyllus (Dasypsyllus) gallinulae perpinnatus* (Baker)  
*Opisodasys (Oxypsylla) keeni* (Baker)  
Okanagan  
*Opisodasys (Opisodasys) vesperalis* (Jordan)  
Okanagan Landing  
*Megabothris (Megabothris) asio megalopolus* (Jordan)  
*Spicata comis* (Jordan)  
Ontario  
Kenora District, Malachi  
*\*Monopsyllus eumolpi canadensis* Hubbard
- Ottawa  
*\*Ceratomyllus canadensis* Baker  
Ottawa, Point Lepreux  
*\*Ceratomyllus gibsoni* C. Fox
- Quebec  
Mingan  
*Rhadinopsylla (Actenophthalmus) media* Smit  
Saint Mary's Island  
*\*Ceratomyllus quebecensis* I. Fox
- Chile**  
Malleco Province  
Parque Nahuelbuta  
*Ectinorus (Ectinorus) martini* Lewis  
Parinacota  
*Plocopsylla viracocha* Schramm and Lewis  
Santiago Province  
Near Tiltill  
*Ectinorus (Ectinorus) chilensis* Lewis  
Farellones  
*Agastopsylla nilota euneomys* Lewis
- Colombia**  
Cauca Department  
Peña del Cerro  
*Polygenis (Polygenis) hopkinsi* Méndez  
Huila Department  
Cuevo del Indio  
*Myodopsylla tropica* Méndez and Lemke  
Llanos Department  
Near Puerto Lopez  
*Kohlsia falcata* Méndez and Hanssen  
Valle Department  
Alto Anchicayá  
*Polygenis (Polygenis) caucensis* Méndez  
Cali, near Rio Pichindé  
*Polygenis (Polygenis) delpontei* Méndez  
*Polygenis (Polygenis) trapidoi* Méndez  
*Scolopsyllus colombianus* Méndez

**Cuba**

Soledad, [untraced]

*Ceratophyllus (Ceratophyllus) celsus apricus* Jordan**Ecuador**

Napo-Pastaza Department

Near Papallacta

*Plocopsylla nungui* Schramm and Lewis

Pichincha Department

Quito

*Hectopsylla suarezi* C. Fox**Egypt**

Giza Province

Abu Rawash

*Araeopsylla wassifi* Traub

Imbaba, Ausim

*Nosopsyllus (Nosopsyllus) londiniensis declivus* Traub

Matrûh Province

Ageba

\**Myoxopsylla (Myoxopsylla) laverani traubi* Lewis [New synonymy]

Western Desert Province

Near Mersa Matrûh

*Hopkinsipsylla occulta occulta* Traub*Mesopsylla tuschkan propinacta* Traub

Sinai Province

St. Catherine's Monastery

*Nosopsyllus (Penicus) geneatus* Traub**El Salvador**

Chalatenango Department

sine loco

*Kohlsia gammonsi* Traub*Plusaetis vermiformis* (Traub)

Morazan Department

sine loco

*Kohlsia cora* Traub

Santa Ana Department

sine loco

*Kohlsia graphis erana* Traub*Kohlsia uniseta* Traub**Ghana**

Ashanti Region

Ahiriso

*Lagaropsylla convexus* Segerman

Eastern Region

Berekuso

*Ctenophthalmus (Ethioctenophthalmus) ghanensis* Segerman**India**

Uttar Pradesh State

Chamoli

*Aconothobius orientalis* (Lewis, Kulkarni, and Bhat)**Indonesia**

Borneo

Sungei Merah

*Farhangia sciuri* (Ewing)

Irian Jaya, Fak Fak

*Orthopsylloides orthodactylus orthodactylus* Holland

Owi Island

*Orthopsylloides orthodactylus owiensis* Holland

Wissel Lakes, Enaratoli

*Papuapsylla roberti* Mardon

Java

Bogor

*Medwayella robinsoni bogora* Traub

Tandjung, Mt. Fijibodas

*Paraceras javanicum* (Ewing)

Sulawesi

Biroro

*Gryphopsylla (Migrastivalius) hetera* Lewis and Jones*Sigmactenus celebensis* Lewis and Jones*Stivalius exoticus* Lewis and Jones

Lembeh Island

*Farhangia celebensis* (Ewing)**Israel**

Mt. Hermon

*Ctenophthalmus (Medioctenophthalmus) costai* Lewis

Ramath ha'Golan

\**Ctenophthalmus (Euctenophthalmus) levanticus israelicus* Lewis*Rhadinopsylla (Rhadinopsylla) golana* Lewis and Burt**Iran**

Mazandaran Province

Near Dasht

*Ophthalmopsylla (Ophthalmopsylla) volgensis impersia* Traub and Evans**Japan**

Honshu Island

Kyoto Prefecture, near Kyoto

*Lentistivalius (Lentistivalius) aestivalius* Jameson and Sakaguti

## Öhara

*Palaeopsylla nippon* Jameson and Kumada  
*Rhadinopsylla (Actenophthalmus) attenuata* Jameson and Sakaguti  
 Nagano Prefecture, near Karasawa  
*Atyphloceras shogakii* Jameson and Sakaguti  
 Shiga Prefecture, Hiei-zan Mt.  
*Neopsylla sasai* Jameson and Kumada

## Kenya

sine loco

*Procaviopsylla procaviae* (C. Fox)

## Korea

Chopri, [untraced]

*Peromyscopsylla hamifer cuneata* Johnson and Traub  
 Taegu  
*Nycteridopsylla sakagutii* Jameson and Suyemoto

## Lebanon

South slope of Mt. Sanin

*Rhadinopsylla (Actenophthalmus) hoogstraali* Lewis  
 Natural Bridge, near Faraya  
 \**Ctenophthalmus (Medioctenophthalmus) costai libanensis*  
 Lewis

## Libya

Tripolitania Province

Near El Gheddahia

*Hopkinsipsylla occulta praeceps* Traub

## Malaysia

Pahang State

Cameron Highlands

*Lentistivalius (Lentistivalius) insoli* (Traub)

*Macrostylophora hastata malayensis* Traub

Fraser's Hill

*Rothschildiana smiti* Traub

Palau, Tioman

*Medwayella robinsoni tiomanica* Traub

Parak State

Keldan Soiong Forest Reserve

*Medwayella calcarata* Traub

Maxwell Hill

*Palaeopsylla apsidata* Traub and Evans

Sabah State

Mt. Kinabalu

*Bibikovana tiptoni* (Traub)

*Cratynius (Cratynius) audyi* Traub

*Cratynius (Cratynius) crypticus* Hopkins and Traub

*Gryphopsylla (Gryphopsylla) hopkinsi* Traub

*Hollandipsylla neali* Traub

*Lentistivalius (Lentistivalius) vomerus* Traub

*Medwayella veruta* Traub

*Neopsylla luma* Traub

*Sigmactenus alticola* Traub

Sarawak State

Kuching

*Medwayella batibacula* Traub

Pueh

*Medwayella phangi tana* Traub

*Medwayella robinsoni peregrinata* Traub

Selangor State

Bukit Lagong

*Medwayella limi* Traub

Gambok Forest Reserve, near Kuala Lumpur

*Medwayella dryadosa* Traub

Genting Pass

*Macrostylophora levis* (Jordan and Rothschild)

Subang

*Medwayella phangi phangi* Traub

## Mexico

Baja California Norte

Cape San Quintin

*Tunga (Tunga) monositus* Barnes and Radovsky

Near Rancho Santa Inez

*Thrassis peninsularis* Lewis

Chiapas State

Near Teopisca

*Strepsylla schmidti* Traub and Barrera

Coahuila State

Sabinas

*Ctenophthalmus (Nearctoctenophthalmus) pseudagyrtes micropus* Traub

Guanajuato State

Guanajuato

\**Pulex irritans* var. *dugesii* Baker

\**Typhlopsylla mexicanus* Baker

Guerrero State

Omitemi

*Corrodopsylla barrerae* Traub and Evans

Jalisco State

Near La Joya

*Ctenophthalmus (Alloctenus) expansus myodosus* Traub and Barrera

Near Guadalajara

*Jellisonia wisemani* Eads

Mexico State

Lagunas de Zempoala

*Ctenophthalmus (Alloctenus) cryptotis* Traub and Barrera

North slope of Mt. Popocatepetl

*Phalacropsylla nivalis* Barrera and Traub

## Nuevo Leon State

Cerro Potosi

*Anomiopsyllus nidiophilus* Tipton and Méndez*Foxella (Afoxella) mexicana* I. Fox\**Malaraeus jordani* I. Fox*Phalacropsylla hamata* Tipton and Méndez

## Oaxaca State

Near Matatlán

*Anomiopsyllus oaxacae* Barnes

## Sinaloa State

Near Los Mochis

*Orchopeas sexdentatus firemani* Hubbard

## Tlaxcala State

Near Calpulálpán

*Strepsylla villai* Traub and Barrera

## Morocco

## Agadir Province

Near Aoulouz

*Leptopsylla (Leptopsylla) algira agadirensis* Hastriter and Tipton

## Taza Province

Taza

\**Ctenophthalmus (Medioctenophthalmus) russulae tangerensis* Hastriter and Tipton

## Nepal

## Dhankuta District

Dhankuta

*Macrostylophora hastata nepali* Traub

## Dolpa District

Dhorpatan

*Callopsylla (Callopsylla) sparsilis atallahi* (Lewis)*Paradoxopsyllus digitatus* Lewis

## Helembu District

Tarke Gyang

*Stenischia pagiana* Lewis

## Katmandu District

King's Forest (Gokarna)

*Ancistropsylla nepalensis* Lewis

## Mugu District

Rara Lake and village

*Paradoxopsyllus acanthus* Lewis

## Mustang District

Ghilinggaon

*Amhipsylla kulkarnii* Lewis\**Frontopsylla (Frontopsylla) hollandi* Lewis

Kalapani

*Paradoxopsyllus mustangensis* Lewis

Muktinath

*Paradoxopsyllus oribatus* Lewis

Mustang

*Paradoxopsyllus magnificus* Lewis*Paradoxopsyllus paraphaeopus* Lewis*Paradoxopsyllus spinosus* Lewis

## Newakot District

Gosainkunda Lake

*Paraneopsylla ioffi nepali* Lewis

Phulung Ghyang

*Smitipsylla maseri* Lewis

## Rasuwa District

Langtang Valley

*Genoneopsylla thysanota* (Traub)\**Neopsylla marleanae* Lewis

## Sindu District

Dhukphu

*Callopsylla (Callopsylla) mygala* Lewis\**Callopsylla (Orneacus) fusca* Lewis

Melumche

*Palaeopsylla helenae* Lewis*Palaeopsylla tauberi tauberi* Lewis*Rowleyella arborea* Lewis

Uring Ghyang

*Mitchella exsula* Lewis

## Solukhumbu District

Khumjung

*Chaetopsylla (Chaetopsylla) gracilis* Lewis*Geusibia (Spinopsylla) triangularis* (Lewis)*Neopsylla pagea* Lewis

Lukla airport

*Neopsylla mantissa* Lewis*Paradoxopsyllus hollandi* Lewis

## New Guinea

## Merobe District

Near Edie Creek

*Papuapsylla essarsi* Mardon*Papuapsylla glyphona* Mardon*Papuapsylla gurricos* Mardon*Papuapsylla magna* Mardon*Papuapsylla minima* Mardon

Near Wau

*Papuapsylla zenoa* Mardon

## Papua, Central District

Smith's Gap

*Papuapsylla dubia* Mardon

Mt. Giluwe, Kagaba

*Muesebeckella mannae* Traub

Southern Highlands, near Giluwe

*Tiflovia pachnopoata* Traub

Western District, Star Mtns.

*Tiflovia stellalpestris* Traub

## Sepik District

Near Lake Louise

*Papuapsylla hollandi* Mardon*Papuapsylla maxima* Mardon*Papuapsylla perplexa* Mardon

Oksapmin  
*Muesebeckella nadi* Traub

### Nigeria

Shagunu, [untraced]  
\**Lagaropsylla setzeri* Segerman

### Pakistan

Dir District  
Dir  
*Acropsylla traubi* Lewis  
Gilgit District  
Kohighizar, Mt. Desert [untraced]  
*Ophthalmopsylla (Eremedosa) celata* Traub  
Hazara District  
Kaghan Valley, near Gitidas  
*Doratopsylla wissemanni* Traub and Evans  
Kaghan Valley, near Shogran  
*Palaeopsylla setzeri* Traub and Evans

### Panama

Bocas del Toro Province  
Rancho Mojica  
*Kohlsia mojica* Tipton and Méndez  
Chiriquí Province  
Bambito, Casa Tilley  
*Kohlsia traubi* Méndez and Altman  
Near Bambito  
*Kohlsia keenani* Tipton and Méndez  
Near Boquete  
*Ceratophyllus (Ceratophyllus) altus* Tipton and Méndez  
*Plocopsylla scotinomi* Tipton and Méndez  
*Wenzella yunkerii* Tipton and Méndez  
Cerro Baru  
*Baculomeris altmani* (Tipton and Méndez)  
Cerro Hoya, Los Santos  
*Kohlsia azuerensis* Tipton and Méndez  
Cerro Punta near Casa Pitty  
*Jellisonia johnsonae* Tipton and Méndez  
Panamá Province  
Cerro Azul  
*Kohlsia tiptoni* Méndez and Altman  
Pacora, near Panamá City  
*Hormopsylla kyriophila* Tipton and Méndez  
Panamá City  
*Ptilopsylla leptina dunnii* Kohls

### People's Republic of China

Shanxi Province  
Wu-Yasi  
*Rhadinopsylla (Micropsylloides) jaonis* Jordan

Sichuan Province  
Suifu  
\**Oropsylla sinensis* Liu

### Peru

Arequipa Department  
Huaylarco  
*Ectinorus (Ectinorus) hecate* Johnson  
Huancavelica Department  
Yucay  
*Myodopsylla setosa* Johnson  
Piura Department  
Near Tambo  
*Plocopsylla kilya* Schramm and Lewis  
Puno Department  
Pampa de Ancomarca  
*Tetrapsyllus (Phylliver) tristis* Johnson  
Pampa de Capazo  
*Tetrapsyllus (Phylliver) elutus* Johnson  
Pichupichuni, near Huacullani  
*Ectinorus (Ectinorus) hertigi* (Johnson)  
Near Pomata  
*Ectinorus (Ectinorus) pearsoni* (Johnson)  
Tacna Department  
Near Terata  
*Plocopsylla inti* Johnson

### Philippines

Luzon  
Baquio [= Baguio] Bengue  
*Stivalius cognatus spiramus* Jordan  
Mindanao  
Mt. Malindang, Mutia  
*Stivalius cognatus bamus* Traub

### Sudan

Equatoria Province  
Imatong Mts., Gilo  
*Ctenophthalmus (Ethioctenophthalmus) hoogstraali* Traub

### Taiwan

Nan-Tou Hsien  
Wu-She  
\**Palaeopsylla remota nescicola* Traub and Evans  
Moi-Feng  
*Ctenophthalmus (Sinoctenophthalmus) taiwanus taiwanus*  
Smit  
Yen-Feng  
*Palaeopsylla recava* Traub and Evans

**Tanzania**

## Western Province

Uluguru Mts., Nyange

*Libyastus smiti* Johnson

## Northern Province

Arusha

*Ctenophthalmus (Ethioctenophthalmus) calceatus tholatus*

Traub

**Thailand**

## Kanchanaburi

Tamoung Bantum

*Araeopsylla elbeli* Traub

## Nakhon Ratchasima

Si Khiu, Pak Chong

*Medwayella thurmani* Traub**Turkey**

## Bolu Province

Abant Gölü [= Lake]

*Ctenophthalmus (Ctenophthalmus) bifidatus bifidatus* Smit

## Izmir Province

Kemalpasa

*\*Ctenophthalmus (Ctenophthalmus) lydiae* Lewis*Ctenophthalmus (Palaeoctenophthalmus) reconditus* Peus**United States of America****Alaska**

Golovin

*Amphipsylla marikovskii ewingi* I. Fox

Nagai Island

*\*Ceratothylus bertholfi* C. Fox

Point Barrow

*Oropsylla (Oropsylla) alaskensis* (Baker)

Puffin Island

*Mioctenopsylla arctica hadweni* (Ewing)

Rapids

*Amalraeus dissimilis dissimilis* (Jordan)

Saint Paul Island

*Mioctenopsylla traubi traubi* Holland and Jellison

Valdez Creek Trail

*\*Peromyscopsylla hamifer longiloba* (Jordan)**Arizona**

## Cochise County

Chiricahua Mtns.

*\*Opisodasys spatiosus* I. Fox

## Coconino County

Near Cosnino

*Foxella (Foxella) ignota omissa* Prince

Near Grand Canyon

*Euhoplosyllus glacialis affinis* (Baker)

Near Mesa City

*Cediopsylla inaequalis inaequalis* (Baker)

Painted Desert

*Eumolpianus eumolpi americanus* (Hubbard)

## Mohave County

Near Saint George, Utah

*Stenistomera macrodactyla* Good

## Navajo County

Near Holbrook

*Thrassis bacchi consimilis* Stark

White River

*Opisodasys (Sciuropsylla) robustus robustus* (Jordan)

## Pima County

Baboquivari Mts.

*\*Meringis cochisei* Hubbard

McClary's Ranch

*Meringis arachis* (Jordan)

Santa Rita Mts.

*Malaraeus eremicus* (Baker)

Tucson

*Anomiopsyllus nudatus nudatus* (Baker)*Thrassis arizonensis* (Baker)

## Santa Cruz County

Near Nogales

*Thrassis aridis aridis* Prince

Santa Rita Mts., Madera Canyon

*Myodopsylla collinsi* Kohls

## Yavapai County

sine loco

*\*Monopsyllus exilis opadus* Jordan

## Yuma County

Near Yuma

*Thrassis bacchi setosis* Prince**California**

## Del Norte County

Fort Dick

*Spicata botticeps* (Hubbard)

## Imperial County

sine loco

*Meringis dipodomys* Kohls

## Kern County

Near Bakersfield

*Thrassis augustsoni* Hubbard

Mojave

*Rhadinopsylla (Actenophthalmus) heiseri* (McCoy)

Near Tehachapi

*Anomiopsyllus walkeri* Barnes

## Kings County

Kings River

*Opisodasys (Sciuropsylla) enoplus* (Rothschild)

**Los Angeles County**

## Los Angeles

*Anomiopsyllus falsicalifornicus falsicalifornicus* C. Fox*Carteretta carteri* C. Fox*Dactylopsylla stimsoni* (C. Fox)*\*Hoplopsyllus powersi* C. Fox*Meringis cummingi* (C. Fox)*Orchopeas dieteri* (C. Fox)*Peromyscopsylla ebrighti* (C. Fox)**Merced County**

## Dos Palos

*Traubella neotomae* (I. Fox)**Mono County**

## Mammoth

*\*Hystrichopsylla mammoth* Chapin**Monterey County**

## Hunter Liggett Military Reservation

*Thrassis aridis arcuatus* Stark**Plumas County**

## Quincy

*Catallagia mathesoni* Jameson*Nearctopsylla (Beringiopsylla) hamata* Holland and Jameson*Nearctopsylla (Beringiopsylla) princei* Holland and Jameson**Riverside County**

## Palm Springs

*\*Ceratothyllus proximus* Baker**San Bernardino County**

## Big Bear Lake

*Callistopsyllus terinus deuterus* Jordan

## Seven Oaks

*Eumolpianus fornacis* (Jordan)**San Francisco County**

## San Francisco

*Atyphloceras multidentatus multidentatus* (C. Fox)*Catallagia wymani* C. Fox*Corypsylla ornata* C. Fox*Dactylopsylla bluei bluei* (C. Fox)*Euhoplopsyllus glacialis foxi* (Ewing)*\*Hoplopsyllus minutus* C. Fox**Santa Clara County**

## Mountain View

*\*Ceratothyllus californicus* Baker*Ceratothyllus (Amonopsyllus) ciliatus ciliatus* Baker**Santa Cruz County**

## Boulder Creek

*Orchopeas sexdentatus sexdentatus* (Baker)**Tuolumne County**

## Yosemite National Park

*Thrassis francisi sierrae* Stark**Colorado**

## Alamosa County

## sine loco

*Meringis jamesoni* Hubbard

## Archuleta County

## Arboles

*Hoplopsyllus anomalus* (Baker)

## Clear Creek County

## Georgetown

*Megarhroglossus divisus* (Baker)*Stenistomera alpina* (Baker)*Tarsopsylla octodecimdentata coloradensis* (Baker)

## Mt. Evans

*Thrassis spenceri alpinus* Stark

## Custer County

## sine loco

*\*Ceratothyllus niger inflexus* Jordan

## Jackson County

## sine loco

*Spicata rara* (I. Fox)

## Larimer County

## Bingham Hills

*Megarhroglossus wilsoni* Méndez and Haas

## Near Fort Collins

*Hystrichopsylla occidentalis sylvaticus* Campos and Stark*Oropsylla (Diamanus) montana* (Baker)

## Rocky Mountain National Park

*Catallagia calisheri* Eads and Campos

## Stove Prairie

*Oropsylla (Opisocrostis) hirsuta* (Baker)

## Weaver Ranch

*Megarhroglossus weaveri* Eads and Campos

## Mineral County

## Pagosa Peak

*\*Ceratothyllus lucidus* Baker

## Montezuma County

## Cortez

*\*Ceratothyllus peromysci* Stewart

## Saguache County

## sine loco

*\*Opisocrostis ornatus* I. Fox

## Weld County

## Roggen

*\*Monopsyllus exilis triptus* Jordan

## sine loco

*\*Ceratothyllus citelli* Stewart**District of Columbia**

## Washington

*\*Ceratothyllus oculatus* Baker*Doratopsylla blarinae* C. Fox**Florida**

## Alachua County

Near Gainesville

*Chaetopsylla (Chaetopsylla) floridensis* (I. Fox)

*Polygenis (Polygenis) floridanus* Johnson and Layne

### Georgia

Glynn County

Brunswick

*Polygenis (Polygenis) gwyni* (C. Fox)

Rabun County

Talula Falls

*Orchopeas howardi howardi* (Baker)

Towns County

Brasstown Bald

*Nearctopsylla (Beringiopsylla) georgiana* Pratt and Harrison

### Idaho

Ada County

Boise

\**Opisodasys jellisoni* I. Fox

Elmore County

Mayfield

*Meringis hubbardi* Kohls

Fremont County

Near Saint Anthony

*Thrassis francisi barnesi* Stark

Latah County

Moscow

*Aetheca wagneri* (Baker)

*Euhoplopsyllus glacialis lynx* (Baker)

*Odontopsyllus dentatus* (Baker)

*Orchopeas labiatus* (Baker)

*Oropsylla (Oropsylla) idahoensis* (Baker)

*Oropsylla (Opisocrostis) tuberculata tuberculata* (Baker)

*Thrassis petiolatus* (Baker)

Potlatch

\**Monopsyllus ciliatus fasteni* Hubbard

### Iowa

Dubuque County

Dubuque

*Peromyscopsylla scotti* I. Fox

Johnson County

Iowa City

\**Ceratophyllus wickhami* Baker

Story County

Ames

*Foxella (Foxella) ignota ignota* (Baker)

*Oropsylla (Opisocrostis) bruneri* (Baker)

### Kansas

Douglas County

Near Lawrence

*Conorhinopsylla nidicola* Jellison

Meade County

sine loco

\**Monopsyllus exilis kansensis* Hubbard

*Orchopeas sexdentatus intermedius* Hubbard

\**Thrassis princei* Hubbard

### Maine

Piscataquis County

Mt. Katahdin

*Catallagia borealis* Ewing

Penobscot County

Orono

*Stenoponia americana* (Baker)

### Maryland

Montgomery County

Glen Echo

*Nycteridopsylla chapini* Jordan

### Michigan

Ingham County

East Lansing

*Cediopsylla simplex* (Baker)

*Ctenophthalmus (Nearctoctenophthalmus) pseudagyrtes pseudagyrtes* Baker

*Nearctopsylla (Beringiopsylla) genalis genalis* (Baker)

Ionia County

Portland

\**Pulex gillettei* Baker

### Montana

Beaverhead County

Poindexter and Orr Ranch [untraced]

*Thrassis pandorae pandorae* Jellison

Broadwater County

Jefferson Canyon [untraced]

*Oropsylla (Opisocrostis) tuberculata cynomuris* Jellison

Carter County

Near Camp Crook (South Dakota)

*Myodopsylla borealis* Lewis

Gallatin County

Near West Yellowstone

*Spicata nuditenacula* (Prince)

Powder River County

Powderville

*Meringis parkeri* (Jordan)

*Pleochaetis exilis* (Jordan)

Ravalli County

Near Darby

*Peromyscopsylla hesperomys ravalliensis* (Dunn)

Near Hamilton

*Anomiopsyllus montanus* Collins

\**Odontopsylla spenceri* Dunn

Near Woodman



\**Micropsylla peromyscus* Dunn  
Spoon Creek  
*Amaradix bitterrootensis bitterrootensis* (Dunn)  
sine loco  
\**Megabothris asio orectus* Jordan  
*Peromyscopsylla hamifer vigens* Jordan

**Nebraska**

Dundy County  
Near Benkelman  
*Dactylopsylla pentachaeta* Prince and Stark  
Hooker County  
Near Mullen  
*Thrassis campestris* Prince

**Nevada**

Clark County  
Kyle Canyon  
\**Monopsyllus eumolpi charlestonensis* Hubbard  
\**Monopsyllus wagneri kylei* Hubbard  
Near Las Vegas  
*Carteretta clavata* Good  
*Dactylopsylla bluei psila* Prince and Stark  
Humboldt County  
Franklin Ranch  
*Thrassis pandorae jellisoni* Hubbard  
Nye County  
Beatty  
*Thrassis aridis hoffmani* (Hubbard)  
Ormsby County  
Near Carson City  
*Spicata monticola* (Prince)  
Washoe County  
Vya  
\**Megabothris princei* Hubbard

**New Hampshire**

Grafton County  
Franconia  
*Peromyscopsylla hesperomys hesperomys* (Baker)

**New Mexico**

Apache County  
sine loco  
*Foxella (Foxella) ignota apachina* (C. Fox)  
Bernalillo County  
Near Albuquerque  
*Anomiopsyllus novomexicanensis* Williams and Hoff  
*Meringis nidi* Williams and Hoff  
Catron County  
Near Luna  
\**Anomiopsyllus princei* Barnes  
Mogollon Mts.  
*Plusaetis asetis* (Traub)

Chaves County  
sine loco  
*Meringis facilis* Eads  
Doña Ana County  
sine loco  
*Meringis disparilis* Eads  
Eddy County  
Carlsbad  
\**Aptilopsylla carlsbadensis* Ewing  
Grant County  
Mt. Forest  
*Stenoponia ponera* Traub and Johnson  
Sandoval County  
Jemez Mts.  
*Megarhroglossus cavernicolus* Méndez and Haas  
San Miguel County  
Near Las Vegas  
*Dactylopsylla neomexicana* Prince  
Santa Fe County  
Santa Fe  
*Meringis rectus* Morlan  
*Phalacropsylla morlani* Eads and Campos  
*Rhadinopsylla (Actenophthalmus) multidenticulata* Morlan  
and Prince

**New York**

Herkimer County  
Newport  
*Opisodasys (Opisodasys) pseudarctomys* (Baker)  
Madison County  
Peterboro  
*Ceratophyllus (Monopsyllus) vison* Baker  
*Orchopeas leucopus* (Baker)  
*Oropsylla (Oropsylla) arctomys* (Baker)

**North Carolina**

Wake County  
Raleigh  
*Odontopsyllus multispinosus* (Baker)

**Oregon**

Baker County  
Baker and environs  
\**Meringis jewetti* Hubbard  
*Oropsylla (Hubbardipsylla) oregonensis* Good and Prince  
Clackamas County  
Sandy  
*Nearctopsylla (Beringiopsylla) traubi* Hubbard  
Clatsop County  
Astoria  
*Dolichopsyllus stylosus* (Baker)  
Columbia County  
Scapoose  
*Spicata comis scapoosei* (Hubbard)

- Harney County  
Near Blitzen  
*Thrassis francisi rockwoodi* Hubbard  
Near Crane  
*Stenistomera hubbardi* Egoscue
- Hood River County  
Parkdale  
*\*Megarthroglossus procus oregonensis* Hubbard
- Lane County  
Mercer Lake  
*Paratyphloceras oregonensis* Ewing
- Lincoln County  
Devil's Lake  
*Spicata moorei oregona* Hubbard  
*Spicata pacifica* (Hubbard)  
*Trichopsylloides oregonensis* Ewing
- Malheur County  
Succor Creek State Park  
*Phalacropsylla oregonensis* Lewis and Maser
- Morrow County  
Near Boardman  
*\*Meringis walkeri* Hubbard  
*\*Monopsyllus vison reeheri* Hubbard
- Multnomah County  
Portland  
*\*Corypsylloides spinata* I. Fox
- Tillamook County  
Tillamook  
*Amalaraeus dobbsi* (Hubbard)
- Wallowa County  
Wallowa Lake  
*Ceratophyllus (Amonopsyllus) ciliatus kincaidi* (Hubbard)  
*Eumolpianus wallowensis* (Hubbard)  
*\*Megarthroglossus divisus wallowensis* Hubbard
- Washington County  
Forest Grove  
*Rhadinopsylla (Micropsylla) sectilis goodi* (Hubbard)
- South Dakota**
- Brookings County  
Brookings  
*Rhadinopsylla (Actenophthalmus) fraterna* (Baker)
- Tennessee**
- Carter County  
Roan Mt.  
*Nearctopsylla (Beringiopsylla) pfitzeri* Benton
- Jefferson County  
Jefferson City  
*\*Peromyscopsylla spinifrons* I. Fox
- Texas**
- Bexar County  
Camp Bullis  
*Jellisonia bullisi* (Augustson)  
Fort Sam Houston  
*\*Thrassis brennani* Augustson
- Brewster County  
Big Bend National Park  
*Meringis agilis* Eads  
*Meringis vitabilis* Eads  
*Nycteridopsylla intermedia* Lewis and Wilson
- Gaines County  
sine loco  
*Anomiopsyllus nudatus hiemalis* Eads and Menzies
- Menard County  
Menard  
*Orchopeas howardi texensis* Eads
- Motley County  
Near Matador  
*Dactylopsylla digitenua* Prince and Stark
- Presidio County  
sine loco  
*Dactylopsylla percernis* Eads and Menzies
- Reeves County  
Pecos  
*Sternopsylla distincta texana* (C. Fox)
- Uvalde County  
sine loco  
*Ceratophyllus (Ceratophyllus) coahuilensis* Eads
- Val Verde County  
Devil's River  
*Pulex (Pulex) simulans* Baker
- Utah**
- sine loco  
*Thrassis francisi francisi* (C. Fox)
- Box Elder County  
Near Bear River  
*\*Ceratophyllus utahensis* Chapin  
Near Yost  
*Spicata minidoka* Prince and Stark
- Cache County  
Sardine Canyon  
*Chaetopsylla (Chaetopsylla) stewarti* Johnson  
Smithfield  
*Ceratophyllus (Ceratophyllus) affinis neglectus* Smit
- Kane County  
Kanab  
*Foxella (Foxella) ignota arizonensis* Hubbard
- Millard County  
Lynndyl  
*Megarthroglossus smiti* Méndez
- Tooele County  
Near Gold Hill  
*Catallagia neweyi* Holland and Loshbaugh  
Stansbury Mts.  
*\*Ornithophaga nearctica* Holland and Loshbaugh

## Uintah County

## Vernal

*Thrassis bacchi caducus* (Jordan)

## Utah County

## Near Provo

*Megarthrogllossus becki* Tipton and Allred

## Washington County

## Grafton

*Jordanopsylla allredi* Traub and Tipton

## Snow Canyon

*Traubella grundmanni* Egoscue

## Virginia

## Alleghany County

## McElwee Cave

*Epitedia cavernicola* Traub

## Lee County

## Near Jonesville

*Rhadinopsylla (Actenophthalmus) orama* Smit

## Washington

## Adams County

## Near Lind

*Oropsylla (Hubbardipsylla) washingtonensis* Good and Prince

## Ritzville

*Meringis shannoni* (Jordan)

## Clallam County

## Olympic National Park

*Nearctopsylla (Beringiopsylla) martyoungi* Hubbard\**Thrassis fousti* Hubbard

## Jefferson County

## Olympic National Park

*Oropsylla (Oropsylla) eatoni* Hubbard

## Kittitas County

## Ellensburg

*Amphipsylla washingtona* Hubbard\**Megabothris clantoni johnsoni* Hubbard

## Lincoln County

## Davenport

*Megabothris (Amegabothris) clantoni* Hubbard*Thrassis bacchi johnsoni* Hubbard

## Near Odessa

*Foxella (Foxella) ignota clantoni* Hubbard

## Pierce County

## Tacoma

*Spicata comis tacomae* (Hubbard)

## Wahkiakum County

## Near Cathlamet

*Spicata moorei moorei* (Hubbard)

## Yakima County

## sine loco

\**Megabothris obscurus* Holland

## Wyoming

## Albany County

## sine loco

*Amaradix bitterrootensis vonfintelis* Prince

## Union of Soviet Socialist Republics

## Kharbovsky Kray

## Bering Island

*Dasypsyllus (Neornipsyllus) stejnegeri* (Jordan)

## Venezuela

## Amazonias Province

## Near Boca Mavaca

*Hormopsylla cryptica* Tipton and Machado-Allison

## Araqua Province

## Campamento Rafael Rangel

\**Polygenis (Polygenis) ambersoni* Traub and Johnson

## Bolívar Province

## Near El Dorado

*Adoratopsylla antiquorum rara* Tipton and Machado-Allison

## Falcón Province

## Near Mirimire

*Adoratopsylla antiquorum recta* Tipton and Machado-Allison

## Trujillo Province

## Near Misisí

*Ctenidiosomus perplexus* Tipton and Machado-Allison

## Appendix 4

### Alphabetical List of Valid Type Names by Current Genus and Species

Following is an alphabetical listing by genus and species of the primary types of Siphonaptera in the collection of the United States National Museum of Natural History as of June 1994. In addition to the authors and dates of description each species is accompanied by a type number following the name.

#### ***Aconothobius* Smit, 1975b**

(Leptopsyllidae: Amphipsyllinae: Amphipsyllini)

*orientalis* (Lewis, Kulkarni, and Bhat, 1972): USNM 72244

#### ***Acropsylla* Rothschild, 1911b**

(Leptopsyllidae: Amphipsyllinae: Mesopsyllini)

*episema girshami* Traub, 1950a: USNM 104627

*traubi* Lewis, 1973b: USNM 72242

#### ***Adoratopsylla* Ewing, 1925**

(Ctenophthalmidae: Doratopsyllinae: Tritopsyllini)

(*Adoratopsylla*) Ewing, 1925

*antiquorum rara* Tipton and Machado-Allison, 1972: USNM 72534

*antiquorum recta* Tipton and Machado-Allison, 1972: USNM 72535

*bisetosa* Ewing, 1925: USNM 27886

#### ***Aetheca* Smit, 1983**

(Ceratoptyllidae: Ceratoptyllinae)

*wagneri* (Baker, 1904): USNM 6911

#### ***Agastopsylla* Jordan and Rothschild, 1923**

(Ctenophthalmidae: Ctenophthalminae: Agastopsyllini)

*nylota euneomys* Lewis in Lewis and Spotorno, 1984: USNM 101124

#### ***Amalaraeus* Ioff, 1936**

(Ceratoptyllidae: Ceratoptyllinae)

*dissimilis dissimilis* (Jordan, 1938): USNM 104613

*dobbsi* (Hubbard, 1940b): USNM 55131

#### ***Amaradix* Smit, 1983**

(Ceratoptyllidae: Ceratoptyllinae)

*bitterrootensis bitterrootensis* (Dunn in Dunn and Parker, 1923) [not found]

*bitterrootensis vonfintelis* (Prince, 1959): USNM 104695

#### ***Amphipsylla* Wagner, 1909**

(Leptopsyllidae: Amphipsyllinae: Amphipsyllini)

*kulkarnii* Lewis, 1981: USNM 76782

*marikovskii ewingi* I. Fox, 1940a: USNM 53585

*washingtona* Hubbard, 1954: USNM 104697

#### ***Ancistropsylla* Toumanoff and Fuller, 1947**

(Ancistroptyllidae)

*nepalensis* Lewis, 1968: USNM 70550

#### ***Anomiopsyllus* Baker, 1904**

(Ctenophthalmidae: Anomiopsyllinae: Anomopsyllini)

*falsicalifornicus falsicalifornicus* C. Fox, 1929: USNM 28921

*montanus* Collins, 1936: USNM 104651

*nidiophilus* Tipton and Méndez, 1968: USNM 69698

*novomexicanensis* Williams and Hoff, 1951: USNM 59336

*nudatus nudatus* (Baker, 1898) 1612: USNM 104660

*nudatus hiemalis* Eads and Menzies, 1948: USNM 104630

*oaxacae* Barnes, 1965: USNM 68226

*walkeri* Barnes, 1965: USNM 68227

#### ***Araeopsylla* Jordan and Rothschild, 1921**

(Ischnopsyllidae: Ischnopsyllinae: Ischnopsyllini)

*elbeli* Traub, 1954b: USNM 104618

*wassifi* Traub, 1954b: USNM 104700

***Atyphloceras* Jordan and Rothschild, 1915**

(Hystrichopsyllidae: Hystrichopsyllinae: Hystrichopsyllini)

*multidentatus multidentatus* (C. Fox, 1909a): USNM 13129  
*shogakii* Jameson and Sakaguti, 1954: USNM 62233***Baculomeris* Smit, 1983**

(Ceratophyllidae: Ceratophyllinae)

*altmani* (Tipton and Méndez, 1961): USNM 66654***Bibikovana* Traub, 1980**

(Pygiopsyllidae: Pygiopsyllinae)

*tiptoni* (Traub, 1957): USNM 64079***Callistopsyllus* Jordan and Rothschild, 1915**

(Ctenophthalmidae: Anomiopsyllinae: Anomiopsyllini)

*terinus deuterus* Jordan, 1937a: USNM 104610***Callopsylla* Wagner, 1934**

(Ceratophyllidae: Ceratophyllinae)

*(Callopsylla)* Wagner, 1934*mygala* (Lewis, 1971b): USNM 71510*sparsilis atallahi* (Lewis, 1971b): USNM 71509***Carteretta* C. Fox, 1927**

(Ctenophthalmidae: Ctenophthalminae: Carterettini)

*carteri* C. Fox, 1927: USNM 40353*clavata* Good, 1942a: USNM 104869***Catallagia* Rothschild, 1915c**

(Ctenophthalmidae: Neopsyllinae: Phalacropsyllini)

*borealis* Ewing, 1929a: USNM 41633*calisheri* Eads and Campos, 1979: USNM 104596*mathesoni* Jameson, 1950: USNM 59371*neweyi* Holland and Loshbaugh, 1958: USNM 64660*wymani* (C. Fox, 1909c): USNM 13131***Cediopsylla* Jordan, 1925**

(Pulicidae: Pulicinae: Spilopsyllini)

*inaequalis inaequalis* (Baker, 1895d): USNM 10933*simplex* (Baker, 1895d): USNM 104682***Ceratophyllus* Curtis, 1832**

(Ceratophyllidae: Ceratophyllinae)

*(Ceratophyllus)* Curtis, 1832*affinis neglectus* Smit, 1958a: USNM 63891*altus* Tipton and Méndez, 1966: USNM 104581*celsus apricus* Jordan, 1929a: USNM 41439*coahuilensis* Eads, 1956: USNM 62924*(Amonopsyllus)* Wagner, 1938a*ciliatus ciliatus* Baker, 1904: USNM 6906*ciliatus kincaidi* (Hubbard, 1947): USNM 104639*(Monopsyllus)* Kolenati, 1857*vison* Baker, 1904: USNM 6914***Chaetopsylla* Kohaut, 1903**

(Vermipsyllidae)

*(Chaetopsylla)* Kohaut, 1903*floridensis* (I. Fox, 1939a): USNM 52897*gracilis* Lewis, 1971c: USNM 71507*stewarti* Johnson, 1955: USNM 62923***Conorhinopsylla* Stewart, 1930b**

(Ctenophthalmidae: Anomiopsyllinae: Anomiopsyllini)

*nicicola* Jellison, 1945: USNM 104659***Corrodopsylla* Wagner, 1929**

(Ctenophthalmidae: Doratopsyllinae: Doratopsyllini)

*barrerai* Traub and Evans, 1967b: USNM 69703***Corypsylla* C. Fox, 1908**

(Ctenophthalmidae: Rhadinopsyllinae: Corypsyllini)

*ornata* C. Fox, 1908: USNM 13132***Cratynius* Jordan, 1933b**

(Leptopsyllidae: Leptopsyllinae: Cratyniini)

*(Cratynius)* Jordan, 1933b*audyi* (Traub, 1952): USNM 104590*crypticus* Hopkins and Traub, 1955: USNM 62478***Ctenidiosomus* Jordan, 1931a**

(Pygiopsyllidae: Pygiopsyllinae)

*perplexus* Tipton and Machado-Allison, 1972: USNM 72536***Ctenophthalmus* Kolenati, 1856**

(Ctenophthalmidae: Ctenophthalminae: Ctenophthalmini)

*(Ctenophthalmus)* Kolenati, 1856*bifidatus bifidatus* Smit, 1960: USNM 104595

**(Alloctenus) Traub and Barrera, 1966**

*cryptotis* Traub and Barrera, 1966: USNM 69704  
*expansus myodosus* Traub and Barrera, 1966: USNM 69705

**(Ethioctenophthalmus) Hopkins and Rothschild, 1966**

*calceatus tholatus* Traub, 1963c: USNM 104689  
*ghanensis* Segerman, 1971: USNM 72477  
*hoogstraali* Traub, 1963c: USNM 66659

**(Medioctenophthalmus) Hopkins and Rothschild, 1966**

*costai* Lewis, 1970b: USNM 71002

**(Nearctoctenophthalmus) Hopkins and Rothschild, 1966**

*pseudagyrtes pseudagyrtes* Baker, 1904: USNM 6922  
*pseudagyrtes micropus* Traub, 1950b: USNM 104648

**(Palaeoctenophthalmus) Wagner, 1940**

*reconditus* Peus, 1977: USNM 105224

**(Sinoctenophthalmus) Hopkins and Rothschild, 1966**

*taiwanus taiwanus* Smit, 1964a: USNM 104687

**Dactylopsylla Jordan, 1929a**

(Ceratophyllidae: Dactylopsyllinae)

*bluei bluei* (C. Fox, 1909b): USNM 13130  
*bluei psila* Prince and Stark, 1951: USNM 104676  
*digitenua* Prince and Stark, 1951: USNM 104611  
*neomexicana* Prince, 1945: USNM 104657  
*pentachaeta* Prince and Stark, 1951: USNM 104672  
*percernis* Eads and Menzies, 1949: USNM 104673  
*stimsoni* (C. Fox, 1914): USNM 18456

**Dasypsyllus Baker, 1905**

(Ceratophyllidae: Ceratophyllinae)

**(Dasypsyllus) Baker, 1905**

*gallinulae perpinnatus* (Baker, 1904): USNM 6901

**(Neornipsyllus) Smit, 1976b**

*stejnegeri* (Jordan, 1929a): USNM 41437

**Dolichopsyllus Baker, 1905**

(Leptopsyllidae: Amphipsyllinae: Dolichopsyllini)

*stylosus* (Baker, 1904): USNM 6921

**Doratopsylla Jordan and Rothschild, 1912**

(Ctenophthalmidae: Doratopsyllinae: Doratopsyllini)

*blarinae* C. Fox, 1914: USNM 18455  
*wissemani* Traub and Evans, 1967b: USNM 69706

**Ectinorus Jordan, 1942**

(Rhopalopsyllidae: Rhopalopsyllinae: Parapsyllini)

**(Ectinorus) Jordan, 1942**

*chilensis* Lewis, 1976: USNM 73734  
*hecate* Johnson, 1957b: USNM 63368  
*hertigi* (Johnson, 1957): USNM 63366  
*martini* Lewis, 1976: USNM 73735  
*pearsoni* (Johnson, 1957b): USNM 63367

**Epitedia Jordan, 1938**

(Ctenophthalmidae: Neopsyllinae: Phalacrospyllini)

*cavernicola* Traub, 1957: USNM 64077

**Euhoplopsyllus Ewing, 1940**

(Pulicidae: Pulicinae: Spilopsyllini)

*glacialis affinis* (Baker, 1904): USNM 6898  
*glacialis foxi* (Ewing, 1924): USNM 23769  
*glacialis lynx* (Baker, 1904): USNM 6899

**Eumolpianus Smit, 1983**

(Ceratophyllidae: Ceratophyllinae)

*eumolpi americanus* (Hubbard, 1950): USNM 104584  
*fornacis* (Jordan, 1937a): USNM 104623  
*wallowensis* (Hubbard, 1950): USNM 104699

**Farhangia Traub, 1980**

(Pygiopsyllidae: Stivaliinae)

*celebensis* (Ewing, 1924): USNM 23771  
*sciuri* (Ewing, 1924): USNM 23772

**Foxella Wagner, 1929**

(Ceratophyllidae: Dactylopsyllinae)

**(Foxella) Wagner, 1929**

*ignota ignota* (Baker, 1895b): USNM 104634  
*ignota apachina* (C. Fox, 1914): USNM 18458  
*ignota arizonensis* Hubbard, 1947: USNM 104585  
*ignota clantoni* Hubbard, 1949c: USNM 104601  
*ignota omissa* Prince, 1945: USNM 104909

**(Afoxella) Smit, 1983**

*mexicana* I. Fox, 1939b: USNM 104646

**Genoneopsylla Wu, Wu, and Liu, 1966**

(Ctenophthalmidae: Neopsyllinae: Paraneopsyllini)

*thysanota* (Traub, 1968a): USNM 75467

***Geusibia* Jordan, 1932b**

(Leptopsyllidae: Amphipsyllinae: Amphipsyllini)

*triangularis* (Lewis, 1972): USNM 72243***Gryphopsylla* Traub, 1957**

(Pygiopsyllidae: Stivaliinae)

*(Gryphopsylla)* Traub, 1957*hopkinsi* Traub, 1957: USNM 64078*(Migrastivalius)* Traub, 1980*hetera* Lewis and Jones, 1985: USNM 101392***Hectopsylla* Frauenfeld, 1860**

(Pulicidae: Tunginae: Hectopsyllini)

*suarezi* C. Fox, 1929: USNM 41819***Hollandipsylla* Traub, 1953a**

(Ceratoptyllidae: Ceratoptyllinae)

*neali* Traub, 1953a: USNM 104655***Hopkinsipsylla* Traub, 1963a**

(Leptopsyllidae: Amphipsyllinae: Amphipsyllini)

*occulta occulta* Traub, 1963a: USNM 66656*occulta praeceps* Traub, 1965: USNM 69707***Hoplopsyllus* Baker, 1905**

(Pulicidae: Pulicinae: Spilopsyllini)

*anomalus* (Baker, 1904): USNM 6897***Hormopsylla* Jordan and Rothschild, 1921**

(Ischnopsyllidae: Ischnopsyllinae: Sternopsyllini)

*cryptica* Tipton and Machado-Allison, 1972: USNM 72537*kyriophila* Tipton and Méndez, 1966: USNM 104641***Hystrichopsylla* Taschenberg, 1880**

(Hystrichopsyllidae: Hystrichopsyllinae: Hystrichopsyllini)

*occidentalis sylvaticus* Campos and Stark, 1979: USNM 104685***Jellisonia* Traub, 1944**

(Ceratoptyllidae: Ceratoptyllinae)

*bullisi* (Augustson, 1944b): USNM 57189*johnsonae* Tipton and Méndez, 1961: USNM 66653*wisemani* Eads, 1951: USNM 60825***Jordanopsylla* Traub and Tipton, 1951**

(Leptopsyllidae: Amphipsyllinae: Jordanopsyllini)

*allredi* Traub and Tipton, 1951: USNM 104577***Kohlsia* Traub, 1950b**

(Ceratoptyllidae: Ceratoptyllinae)

*azuereis* Tipton and Méndez, 1966: USNM 104592*cora* Traub, 1950b: USNM 104607*falcata* Méndez and Hanssen, 1975: USNM 73330*gammonsii* Traub, 1950b: USNM 104626*graphis erana* Traub, 1950b: USNM 104619*keenani* Tipton and Méndez, 1961: USNM 66652*mojica* Tipton and Méndez, 1966: USNM 104650*tiptoni* Méndez and Altman, 1960: USNM 64877*traubi* Tipton and Méndez, 1961: USNM 66655*uniseta* Traub, 1950b: USNM 104692***Lagaropsylla* Jordan and Rothschild, 1921**

(Ischnopsyllidae: Ischnopsyllinae: Ischnopsyllini)

*convexus* Segerman, 1973: USNM 72475***Lentistivalius* Traub, 1972**

(Pygiopsyllidae: Stivaliinae)

*(Lentistivalius)* Traub, 1972*aestivalius* Jameson and Sakaguti, 1954: USNM 62232*insolli* (Traub, 1950a): USNM 104635*vomerus* Traub, 1972: USNM 71609***Leptopsylla* Jordan and Rothschild, 1911b**

(Leptopsyllidae: Leptopsyllinae: Leptopsyllini)

*(Leptopsylla)* Jordan and Rothschild, 1911b*algira agadirensis* Hastriter and Tipton, 1975: USNM 73817***Libyastus* Jordan, 1936**

(Ceratoptyllidae: Ceratoptyllinae)

*smiiti* Johnson, 1957a: USNM 63515***Macrostylophora* Ewing, 1929**

(Ceratoptyllidae: Ceratoptyllinae)

*hastata malayensis* Traub, 1950a: USNM 104643*hastata nepali* Traub, 1950a: USNM 104658*levis* (Jordan and Rothschild, 1922a): BMNH

***Malacopsylla* Weyenbergh, 1881**

(Malacopsyllidae)

*grossiventris* (Weyenbergh, 1879): BMNH***Malaraeus* Jordan, 1933a**

(Ceratophyllidae: Ceratophyllinae)

*eremicus* (Baker, 1904): USNM 6920***Medwayella* Traub, 1972**

(Pygiopsyllidae: Stivaliinae)

*batibacula* Traub, 1972: USNM 71607*calcarata* Traub, 1972: USNM 71606*dryadosa* Traub, 1972: USNM 71598*limi* Traub, 1972: USNM 71604*phangi phangi* Traub, 1972: USNM 71602*phangi tana* Traub, 1972: USNM 71603*robinsoni bogora* Traub, 1972: USNM 71600*robinsoni peregrinata* Traub, 1972: USNM 71599*robinsoni tiomanica* Traub, 1972: USNM 71601*thurmani* Traub, 1972: USNM 71605*veruta* Traub, 1972: USNM 71608***Megabothris* Jordan, 1933a**

(Ceratophyllidae: Ceratophyllinae)

*(Megabothris)* Jordan, 1933a*asio asio* (Baker, 1904): USNM 6912*asio megacolpus* (Jordan, 1929a): USNM 41434*(Amegabothris)* Smit, 1983*clantoni* Hubbard, 1949a: USNM 104602***Megarhroglossus* Jordan and Rothschild, 1915**

(Ctenophthalmidae: Anomiopsyllinae: Anomiopsyllini)

*becki* Tipton and Allred, 1952: USNM 104594*cavernicolus* Méndez and Haas, 1972: USNM 73331*divisus* (Baker, 1898): USNM 104614*smiti* Méndez, 1956: USNM 104683*weaveri* Eads and Campos, 1977: USNM 76052*wilsoni* Méndez and Haas, 1973: USNM 73332***Meringis* Jordan, 1937a**

(Ctenophthalmidae: Neopsyllinae: Phalacropsyllini)

*agilis* Eads, 1960: USNM 65455*arachis* (Jordan, 1929a): USNM 41419*cummingi* (C. Fox, 1926): USNM 28918*dipodomys* Kohls, 1938: USNM 104612*disparalis* Eads, 1979: USNM 76054*facilis* Eads, 1979: USNM 76053*hubbardi* Kohls, 1938: USNM 104633*jamesoni* Hubbard, 1943a: USNM 57088*nidi* Williams and Hoff, 1951: USNM 59337*parkeri* (Jordan, 1937a): USNM 104671*rectus* Morlan, 1953: USNM 59914*shannoni* (Jordan, 1929a): USNM 41416*vitabilis* Eads, 1960: USNM 65454***Mesopsylla* Dampf, 1910**

(Leptopsyllidae: Amphipsyllinae: Mesopsyllini)

*tusckan propinacta* Traub and Evans, 1967a: USNM 69708***Mioctenopsylla* Rothschild, 1922**

(Ceratophyllidae: Ceratophyllinae)

*arctica hadweni* (Ewing, 1927): USNM 40349*traubi traubi* Holland and Jellison, 1952 [not found]***Müchella* Lewis, 1970a**

(Ischnopsyllidae: Ischnopsyllinae: Ischnopsyllini)

*exsula* Lewis, 1970a: USNM 70841***Muesebeckella* Traub, 1969**

(Pygiopsyllidae: Stivaliinae)

*mannae* Traub, 1969: USNM 70748*nadi* Traub, 1969: USNM 70747***Myodopsylla* Jordan and Rothschild, 1911b**

(Ischnopsyllidae: Ischnopsyllinae: Ischnopsyllini)

*borealis* Lewis, 1978: USNM 75437*collinsi* Kohls, 1937: USNM 104604*setosa* Johnson, 1956: USNM 63289*tropica* Méndez and Lemke, 1979: USNM 104263***Nearctopsylla* Rothschild, 1915b**

(Ctenophthalmidae: Rhadinopsyllinae: Corypsyllini)

(Beringiopsylla) Ioff, 1950

*genalis genalis* (Baker, 1904): USNM 6923*georgiana* Pratt and Harrison, 1954: USNM 61859*hamata* Holland and Jameson, 1950: USNM 104629*martyoungi* Hubbard, 1954: USNM 104645*pfitzeri* Benton, 1981: USNM 76342*princei* Holland and Jameson, 1950: USNM 104675*traubi* Hubbard, 1949c: USNM 104702***Neopsylla* Wagner, 1903**

(Ctenophthalmidae: Neopsyllinae: Neopsyllini)

*luma* Traub, 1954a: USNM 61807*mantissa* Lewis, 1971a: USNM 71210



*pagea* Lewis, 1971a: USNM 71212  
*sasai* Jameson and Kumada, 1953: USNM 61835

***Nosopsyllus* Jordan, 1933a**

(Ceratophyllidae: Ceratophyllinae)

(*Nosopsyllus*) Jordan, 1933a

*londiniensis declivus* Traub, 1963b: USNM 66657

(*Penicus*) Traub, 1963b

*geneatus* Traub, 1963b: USNM 66658

***Nycteridopsylla* Oudemans, 1906**

(Ichnopsyllidae: Ichnopsyllinae: Nycteridopsyllini)

*chapini* Jordan, 1929a: USNM 41423

*intermedia* Lewis and Wilson, 1982: USNM 100223

*sakagutii* Jameson and Suyemoto, 1955: USNM 62954

***Odontopsyllus* Baker, 1905**

(Leptopsyllidae: Amphipsyllinae: Amphipsyllini)

*dentatus* (Baker, 1904): USNM 6900

*multispinosus* (Baker, 1898): USNM 104654

***Ophthalmopsylla* Wagner and Ioff, 1926**

(Leptopsyllidae: Amphipsyllinae: Amphipsyllini)

(*Ophthalmopsylla*) Wagner and Ioff, 1926

*volgensis impersia* Traub and Evans, 1967a: USNM 69710

(*Eremedosa*) Traub, 1965

*celata* Traub, 1965: USNM 69709

***Opisodasys* Jordan, 1933a**

(Ceratophyllidae: Ceratophyllinae)

(*Opisodasys*) Jordan, 1933a

*pseudarctomys* (Baker, 1904): USNM 6907

*vesperalis* (Jordan, 1929a): BMNH

(*Oxyopsylla*) Smit, 1983

*keeni* (Baker, 1896b): BMNH

(*Sciuroopsylla*) Dampf, 1942

*enoplus* (Rothschild, 1909): BMNH

*robustus robustus* (Jordan, 1925): BMNH

***Orchopeas* Jordan, 1933a**

(Ceratophyllidae: Ceratophyllinae)

*dieteri* (C. Fox, 1929): USNM 41820

*howardi howardi* (Baker, 1895b): USNM 10934

*howardi texensis* Eads, 1950: USNM 104688

*labiatus* (Baker, 1904): USNM 6909

*leucopus* (Baker, 1904): USNM 6908

*sexdentatus sexdentatus* (Baker, 1904): USNM 6910

*sexdentatus firemani* Hubbard, 1955: USNM 104622

*sexdentatus intermedius* Hubbard, 1943b: USNM 57087

***Oropsylla* Wagner and Ioff, 1926**

(Ceratophyllidae: Ceratophyllinae)

(*Oropsylla*) Wagner and Ioff, 1926

*alaskensis* (Baker, 1904): USNM 6903

*arctomys* (Baker, 1904): USNM 6916

*eatoni* Hubbard, 1954: USNM 104617

*idahoensis* (Baker, 1904): USNM 6918

(*Diamanus*) Jordan, 1933a

*montana* (Baker, 1895c): USNM 7240

(*Hubbardipsylla*) Smit, 1983

*oregonensis* (Good and Prince, 1939): USNM 104666

*washingtonensis* (Good and Prince, 1939): USNM 104698

(*Opisocrostis*) Jordan, 1933a

*bruneri* (Baker, 1895c): USNM 10932

*hirsuta* (Baker, 1895c): BMNH

*tuberculata tuberculata* (Baker, 1904): USNM 6902

*tuberculata cynomuris* (Jellison, 1939): USNM 104609

***Orthopsylloides* Holland, 1969**

(Pygiopsyllidae: Stivallinae)

*orthodactylus orthodactylus* Holland, 1969: USNM 104668

*orthodactylus owiensis* Holland, 1969: USNM 104669

***Palaeopsylla* Wagner, 1903**

(Ctenophthalmidae: Ctenophthalminae: Ctenophthalmini)

*apsidata* Traub and Evans, 1967b: USNM 69711

*helenae* Lewis, 1973a: USNM 72370

*nippon* Jameson and Kumada, 1953: USNM 61834

*recava* Traub and Evans, 1967b: USNM 69712

*setzeri* Traub and Evans, 1967b: USNM 69714

*tauberi tauberi* Lewis, 1973a: USNM 72369

***Papuapsylla* Holland, 1969**

(Pygiopsyllidae: Stivaliinae)

*dubia* Mardon, 1976: USNM 103879

*essarsi* Mardon, 1976: USNM 103880

*glyphona* Mardon, 1976: USNM 103881

*gurriscos* Mardon, 1976: USNM 103882

*hollandi* Mardon, 1976: USNM 103883

*magna* Mardon, 1976: USNM 103885

*maxima* Mardon, 1976: USNM 103886  
*minima* Mardon, 1976: USNM 103887  
*perplexa* Mardon, 1976: USNM 103889  
*roberti* Mardon, 1976: USNM 103890  
*zenoa* Mardon, 1976: USNM 103892

***Paraceras* Wagner, 1916**

(Ceratophyllidae: Ceratophyllinae)

*javanicum* (Ewing, 1924): USNM 23770

***Paradoxopsyllus* Miyajima and Koidzumi, 1909**

(Leptopsyllidae: Amphipsyllinae: Amphipsyllini)

*acanthus* Lewis, 1974a: USNM 72539  
*digitatus* Lewis, 1974a: USNM 72540  
*hollandi* Lewis, 1974a: USNM 72542  
*magnificus* Lewis, 1974a: USNM 72543  
*mustangensis* Lewis, 1974a: USNM 72544  
*oribatus* Lewis, 1974a: USNM 72545  
*paraphaeopis* Lewis, 1974a: USNM 72546  
*spinus* Lewis, 1974a: USNM 72547

***Paraneopsylla* Tiflov, 1937**

(Ctenophthalmidae: Neopsyllinae: Paraneopsyllini)

*ioffi nepali* Lewis, 1971a: USNM 71209

***Paratyphloceras* Ewing, 1940**

(Ctenophthalmidae: Rhadinopsyllinae: Rhadinopsyllini)

*oregonensis* Ewing, 1940: USNM 54000

***Peromyscopsylla* I. Fox, 1939a**

(Leptopsyllidae: Leptopsyllinae: Leptopsyllini)

*ebrighti* (C. Fox, 1926): USNM 28919  
*hamifer cuneata* Johnson and Traub, 1954: USNM 104608  
*hamifer vigenis* (Jordan, 1937a): USNM 104694  
*hesperomys hesperomys* (Baker, 1904): USNM 6924  
*hesperomys ravalliensis* (Dunn in Dunn and Parker, 1923):  
 USNM 104677  
*scotti* I. Fox, 1939a: USNM 52900

***Phalacropsylla* Rothschild, 1915c**

(Ctenophthalmidae: Neopsyllinae: Phalacropsyllini)

*hamata* Tipton and Méndez, 1968: USNM 69697  
*morlani* Eads and Campos, 1982: USNM 104868  
*nivalis* Barrera and Traub, 1967: USNM 69715  
*oregonensis* Lewis and Maser, 1978: USNM 75247

***Pleochaetis* Jordan, 1933a**

(Ceratophyllidae: Ceratophyllinae)

*exilis* (Jordan, 1937a): USNM 104620

***Plocopsylla* Jordan, 1931b**

(Stephanocircidae: Craneopsyllinae: Craneopsyllini)

*inti* Johnson, 1957b: USNM 63365  
*kilya* Schramm and Lewis, 1987: USNM 103884  
*nungui* Schramm and Lewis, 1987: USNM 103888  
*scotinomi* Tipton and Méndez, 1966: USNM 104679  
*viracocha* Schramm and Lewis, 1987: USNM 103891

***Plusaetis* Smit, 1983**

(Ceratophyllidae: Ceratophyllinae)

*asetus* (Traub, 1950b): USNM 104589  
*vermiformis* (Traub, 1950b): USNM 104693

***Polygenis* Jordan, 1939b**

(Rhopalopsyllidae: Rhopalopsyllinae)

(*Polygenis*) Jordan, 1939b

*caucensis* Méndez, 1977: USNM 104262  
*delpontei* Méndez, 1977: USNM 104261  
*floridanus* Johnson and Layne, 1961: USNM 65669  
*gwyni* (C. Fox, 1914): USNM 18454  
*hopkinsi* Méndez, 1977: USNM 104260  
*trapidoi trapidoi* Méndez, 1977: USNM 104259

(*Hechtiella*) Barrera, 1952

*nitidus* (Johnson, 1957b): USNM 63371

***Procaviopsylla* Jordan, 1925**

(Pulicidae: Pulicinae: Xenopsyllini)

*procaviae* (C. Fox, 1914): USNM 18453

***Ptilopsylla* Jordan and Rothschild, 1921**

(Ichnopsyllidae: Ichnopsyllinae: Sternopsyllini)

*leptina dunnii* Kohls, 1942: USNM 104616

***Pulex* Linnaeus, 1758**

(Pulicidae: Pulicinae: Pulicini)

(*Pulex*) Linnaeus, 1758

*simulans* Baker, 1895a: BMNH

***Rhadinopsylla* Jordan and Rothschild, 1912**

(Ctenophthalmidae: Rhadinopsyllinae: Rhadinopsyllini)

(*Rhadinopsylla*) Jordan and Rothschild, 1912

*golana* Lewis and Burt, 1973: USNM 72538

(*Actenophthalmus*) C. Fox, 1925

*attenuata* Jameson and Sakaguti, 1954: USNM 62231

*fraterna* (Baker, 1895e): USNM 104625  
*heiseri* (McCoy, 1911): USNM 14154  
*hoogstraali* Lewis, 1967a: USNM 69511  
*media* Smit, 1957: USNM 64123  
*multidenticulata* Morlan and Prince, 1954: USNM 62395  
*orama* Smit, 1957: USNM 64122

(*Micropsylla*) Dunn, 1923

*sectilis goodi* (Hubbard, 1941): USNM 56437

(*Micropsylloides*) Ewing, 1938

*jaonis* Jordan, 1929b: USNM 41415

***Rhopalopsyllus* Baker, 1905**

(Rhopalopsyllidae: Rhopalopsyllinae)

*lutzi lutzi* (Baker, 1904): USNM 6896

***Rothschildiana* Smit, 1952**

(Ctenophthalmidae: Neopsyllinae: Neopsyllini)

*smiti* Traub, 1957: USNM 64076

***Rowleyella* Lewis, 1971d**

(Ceratophyllidae: Ceratophyllidae)

*arborea* Lewis, 1971d: USNM 71506

***Scolopsyllus* Méndez, 1968**

(Rhopalopsyllidae: Rhopalopsyllinae)

*colombianus* Méndez, 1968: USNM 69813

***Sigmactenus* Traub, 1950c**

(Leptopsyllidae: Leptopsyllinae: Leptopsyllini)

*alticola* Traub, 1954a: USNM 61806

*celebensis* Lewis and Jones, 1985: USNM 101391

***Smitipsylla* Lewis, 1971e**

(Ceratophyllidae: Ceratophyllinae)

*maseri* Lewis, 1971e: USNM 71611

***Spicata* I. Fox, 1940b**

(Ceratophyllidae: Dactylopsyllinae)

*botticeps* (Hubbard, 1943c): USNM 57084

*comis comis* (Jordan, 1929a): BMNH

*comis scapoossei* (Hubbard, 1954) [not found]

*comis tacomae* (Hubbard, 1954): USNM 104686

*minidoka* (Prince and Stark, 1951): USNM 104649

*monticola* (Prince, 1945): USNM 104652

*moorei moorei* (Hubbard, 1949c): USNM 104653

*moorei oregona* (Hubbard, 1954): USNM 104665

*nuditenacula* (Prince, 1945): USNM 104661

*pacifica* (Hubbard, 1943c): USNM 57085

*rara* (I. Fox, 1940b): USNM 54013

***Stenischia* Jordan, 1932b**

(Ctenophthalmidae: Rhadinopsyllinae: Rhadinopsyllini)

*pagiana* Lewis, 1969: USNM 104726

***Stenistomera* Rothschild, 1915b**

(Ctenophthalmidae: Anomiopsyllinae: Anomiopsyllini)

*alpina* (Baker, 1895): USNM 104578

*hubbari* Egoscue, 1968: USNM 703414

*macroductyla* Good, 1942b: USNM 104644

***Stenoponia* Jordan and Rothschild, 1911a**

(Ctenophthalmidae: Stenoponiinae)

*americana* (Baker, 1899): USNM 104583

*ponera* Traub and Johnson, 1952b: USNM 61294

***Sternopsylla* Jordan and Rothschild, 1921**

(Ischnopsyllidae: Ischnopsyllinae: Sternopsyllini)

*distincta texana* (C. Fox, 1914): USNM 18459

***Stivalius* Jordan and Rothschild, 1922c**

(Pygiopsyllidae: Stivaliinae)

*cognatus bamus* Traub, 1972: USNM 71610

*cognatus spiramus* Jordan, 1926: BMNH

*exoticus* Lewis and Jones, 1985: USNM 101393

***Strepsylla* Traub, 1950b**

(Ctenophthalmidae: Neopsyllinae: Phalacropsyllini)

*schmidti* Traub and Barrera, 1955: USNM 62614

*villai* Traub and Barrera, 1955: USNM 62615

***Tarsopsylla* Wagner, 1927**

(Ceratophyllidae: Ceratophyllinae)

*octodecimdentata coloradensis* (Baker, 1895b): USNM 104605

***Tetrapsyllus* Jordan, 1931b**

(Rhopalopsyllidae: Rhopalopsyllinae)

(*Phylliver*) Smit, 1987

*elutus* Johnson, 1957b: USNM 63369

*tristis* Johnson, 1957b: USNM 63370

***Thrassis* Jordan, 1933a**

(Ceratophyllidae: Ceratophyllinae)

- aridis aridis* Prince, 1944: USNM 104587  
*aridis arcuatus* Stark, 1957: USNM 104586  
*aridis hoffmani* (Hubbard, 1949c): USNM 104631  
*arizonensis* (Baker, 1898): USNM 104588  
*augustsoni* Hubbard, 1949c: USNM 104591  
*bacchi caducus* (Jordan, 1930): USNM 43061  
*bacchi consimilis* Stark, 1957: USNM 104606  
*bacchi johnsoni* Hubbard, 1949a: USNM 104637  
*bacchi setosis* Prince, 1944: USNM 104680  
*campestris* Prince, 1944: USNM 104597  
*francisi francisi* (C. Fox, 1927): USNM 40354  
*francisi barnesi* Stark, 1970: USNM 104593  
*francisi rockwoodi* Hubbard, 1942: USNM 57091  
*francisi sierrae* Stark, 1970: USNM 104681  
*pandorae pandorae* Jellison, 1937: USNM 104670  
*pandorae jellisoni* Hubbard, 1940b: USNM 55130  
*peninsularis* Lewis, 1994: USNM 104870  
*petiolatus* (Baker, 1904): USNM 6919  
*spenceri alpinus* Stark, 1957: USNM 104579

***Tiflovia* Traub, 1977**

(Pygiopsyllidae: Stivaliinae)

- pachnopoata* Traub, 1977: USNM 73842  
*stellalpestris* Traub, 1977: USNM 73843

***Traubella* Prince, Eads, and Barnes, 1976**

(Ceratophyllidae: Ceratophyllinae)

- grundmanni* Egoscue, 1989: USNM 104628  
*neotomae* (I. Fox, 1940b): USNM 54012

***Trichopsylloides* Ewing, 1938**

(Ctenophthalmidae: Rhadinopsyllinae: Rhadinopsyllini)

- oregonensis* Ewing, 1938: USNM 51880

***Tunga* Jarocki, 1838**

(Pulicidae: Tunginae: Tungini)

*(Tunga)* Jarocki, 1838

- monositus* Barnes and Radovsky, 1969: USNM 70738

***Wenzella* Traub, 1953b**

(Ctenophthalmidae: Rhadinopsyllinae: Wenzellini)

- yunkerii* Tipton and Méndez, 1966: USNM 104701

***Xenopsylla* Glinkiewicz, 1907**

(Pulicidae: Pulicinae: Xenopsyllini)

- brasiliensis* (Baker, 1904): USNM 6895  
*georychi* (C. Fox, 1914): USNM 18452

## Appendix 5

### Supraspecific Classification

Currently recognized supraspecific taxa in the order Siphonaptera. The number in ( ) is the number of species in that genus or subgenus.

#### SIPHONAPTERA Latreille, 1825

Superfamily CERATOPHYLLOIDEA after Smit, 1982

ANCISTROPSYLLIDAE Toumanoff and Fuller, 1947

(Monogeneric)

*Ancistropsylla* Toumanoff and Fuller, 1947 (3)

CERATOPHYLLIDAE Dampf, 1908 (44 genera)

CERATOPHYLLINAE Dampf, 1908

*Aenigmopsylla* Ioff, 1950 (1)

*Aetheca* Smit, 1983 (2)

*Amalaraeus* Ioff, 1936 (18)

*Amaradix* Smit, 1983 (3)

*Amphalius* Jordan, 1933a (11)

*Baculomeris* Smit, 1983 (2)

*Brevictenidia* Liu and Li, 1965 (1)

*Callopsylla* Wagner, 1934 (28)

(*Callopsylla*) Wagner, 1934 (21)

(*Geminopsylla*) Beaucourmu and Aeschlimann, 1985 (3)

(*Orneacus*) Jordan, 1937b (2)

(*Paracallopsylla*) Ioff, 1936 (1)

(*Typhlocallopsylla*) Ioff, 1936 (1)

*Ceratopsylla* Curtis, 1832 (77)

(*Amonopsyllus*) Wagner, 1938a (4)

(*Celeophilus*) Smit, 1983 (2)

(*Ceratopsyllus*) Curtis, 1832 (47)

(*Emmareus*) Smit, 1983 (11)

(*Monopsyllus*) Kolenati, 1857 (11)

(*Rosickyiana*) Smit, 1972 (2)

*Citellophilus* Wagner, 1934 (20)

*Dasypsyllus* Baker, 1905 (11)

(*Avesopsylla*) I. Fox and Anduze, 1947 (2)

(*Dasypsyllus*) Baker, 1905 (3)

(*Neornipsyllus*) Smit, 1976b (6)

*Eumolpianus* Smit, 1983 (8)

*Glaciopsyllus* Smit and Dunnet, 1962 (1)

*Hollandipsylla* Traub, 1953a (1)

*Igioffius* Smit, 1983 (1)

*Jellisonia* Traub, 1944 (13)

*Kohlsia* Traub, 1950b (20)

*Libyastus* Jordan, 1936 (15)

*Macrostylophora* Ewing, 1929b (37)

*Malaraeus* Jordan, 1933a (3)

*Margopsylla* Smit, 1983 (1)

*Megabothris* Jordan, 1933a (21)

(*Amegabothris*) Smit, 1983 (5)

(*Gebiella*) Smit, 1983 (4)

(*Kueichenlipsylla*) Smit, 1983 (2)

(*Megabothris*) Jordan, 1933a (10)

*Megathoracipsylla* Liu, Liu, and Zhang, 1980 (1)

*Mioctenopsylla* Rothschild, 1922 (4)

*Myoxopsylla* Wagner, 1927 (3)

(*Miriampsylla*) Peus, 1977 (2)

(*Myoxopsylla*) Wagner, 1927 (1)

*Nosopsyllus* Jordan, 1933a (73)

(*Gerbillophilus*) Wagner, 1934 (30)

(*Nosinius*) Smit, 1960 (1)

(*Nosopsyllus*) Jordan, 1933a (41)

(*Penicus*) Traub, 1963b (1)

*Opisodasys* Jordan, 1933a (9)

(*Opisodasys*) Jordan, 1933a (2)

(*Oxypsylla*) Smit, 1983 (2)

(*Sciuropsylla*) Dampf, 1942 (5)

*Orchopeas* Jordan, 1933a (20)

*Oropsylla* Wagner and Ioff, 1926 (16)

(*Diamanus*) Jordan, 1933a (1)

(*Hubbardipsylla*) Smit, 1983 (2)

(*Opisocrostis*) Jordan, 1933a (5)

(*Oropsylla*) Wagner and Ioff, 1926 (8)

*Paraceras* Wagner, 1916 (11)

*Paramonopsyllus* Argyropulo, 1946 (2)

*Pleochaetis* Jordan, 1933a (3)

*Plusaetis* Smit, 1983 (14)

*Rostropsylla* Wagner and Ioff, 1926 (1)

*Rowleyella* Lewis, 1971d (3)

*Smitipsylla* Lewis, 1971e (3)

*Spuropsylla* Li, Xie, and Gong, 1982 (1)

*Syngenopsyllus* Traub, 1950a (1)

*Tarsopsylla* Wagner, 1927 (2)

*Thrassis* Jordan, 1933a (29)

*Traubella* Prince, Eads, and Barnes, 1976 (2)

Dactylopsyllinae Jordan, 1929a

*Dactylopsylla* Jordan, 1929a (8)

*Foxella* Wagner, 1929 (14)

(*Afoxella*) Smit, 1983 (3)

(*Foxella*) Wagner, 1929 (11)

*Spicata* I. Fox, 1940b (12)

- ISCHNOPSYLLIDAE Tiraboschi, 1904 (20 genera)  
 ISCHNOPSYLLINAE Tiraboschi, 1904  
 CHIROPTEROPSYLLINI Medvedev, 1985  
*Chiropteropsylla* Oudemans, 1908 (2)  
 ISCHNOPSYLLINI Tiraboschi, 1904  
*Allopsylla* Beaucourmu and Fain, 1982 (2)  
*Araeopsylla* Jordan and Rothschild, 1921 (9)  
*Dampfia* Smit, 1954 (2)  
*Ischnopsyllus* Westwood, 1833 (29)  
 (*Hexactenopsylla*) Oudemans, 1906 (13)  
 (*Ischnopsyllus*) Westwood, 1833 (16)  
*Lagaropsylla* Jordan and Rothschild, 1921 (18)  
*Mitchella* Lewis, 1970a (4)  
*Myodopsylla* Jordan and Rothschild, 1911b (13)  
*Oxyparius* Jordan, 1936 (1)  
*Rhinolophopsylla* Oudemans, 1909a (7)  
 NYCTERIDOPSYLLINI Medvedev, 1985  
*Nycteridopsylla* Oudemans, 1906 (19)  
 PORRIBIINI Medvedev, 1985  
*Coorilla* Dunnet and Mardon, 1973 (3)  
*Porribius* Jordan, 1946 (4)  
*Serendipsylla* Smit, 1975a (1)  
 STERNOPSYLLINI Medvedev, 1985  
*Alectopsylla* Mahnert, 1976 (1)  
*Hormopsylla* Jordan and Rothschild, 1921 (5)  
*Ptilopsylla* Jordan and Rothschild, 1921 (3)  
*Rothschildopsylla* Guimaraes, 1953 (1)  
*Sternopsylla* Jordan and Rothschild, 1921 (3)  
*Thaumapsyllinae* Jordan, 1947  
*Thaumapsylla* Rothschild, 1907 (3)  
 LEPTOPSYLLIDAE Rothschild, 1915a (30 genera)  
 AMPHIPSYLLINAE Ioff, 1936  
 AMPHIPSYLLINI Ioff, 1936  
*Aconothobius* Smit, 1975b (3)  
*Amphipsylla* Wagner, 1909 (54)  
*Brachyctenonotus* Wagner, 1928b (1)  
*Calceopsylla* Liu, Wu, and Wang, 1965 (1)  
*Chinghaipsylla* Liu, Tsai, and Wu, 1974 (2)  
*Conothobius* Ioff, 1950 (1)  
*Ctenophyllus* Wagner, 1927 (5)  
*Frontopsylla* Wagner and Ioff, 1926 (58)  
 (*Frontopsylla*) Wagner and Ioff, 1926 (42)  
 (*Mafrontia*) Ioff, 1949 (1)  
 (*Orfrontia*) Ioff, 1946 (12)  
 (*Profrontia*) Ioff, 1946 (3)  
*Geusibia* Jordan, 1932b (16)  
*Hopkinsipsylla* Traub, 1963a (2)  
*Minyctenopsyllus* Liu, Zhung, and Wang, 1979 (1)  
*Ochotonobius* Ioff, 1950 (3)  
*Odontopsyllus* Baker, 1905 (4)  
*Ophthalmopsylla* Wagner and Ioff, 1926 (24)  
 (*Cystipsylla*) Wagner, 1930b (4)  
 (*Eremedosa*) Traub, 1965 (1)  
 (*Ophthalmopsylla*) Wagner and Ioff, 1926 (19)  
*Paradoxopsyllus* Miyajima and Koidzumi, 1909 (41)  
*Phaenopsylla* Jordan, 1944 (7)  
 DOLICHOPSYLLINI Baker, 1905  
*Dolichopsyllus* Baker, 1905 (1)  
 JORDANOPSYLLINI Traub and Tipton, 1951  
*Jordanopsylla* Traub and Tipton, 1951 (1)  
 MESOPSYLLINI Wagner, 1939a  
*Acropsylla* Rothschild, 1911b (3)  
*Caenopsylla* Rothschild, 1909b (7)  
*Desertopsylla* Argyropulo, 1946 (1)  
*Mesopsylla* Dampf, 1910 (17)  
 ORNITHOPHAGINI Hopkins and Rothschild, 1971  
*Ornithophaga* Mikulin, 1957 (4)  
*Typhlomyopsyllus* Li and Huang, 1980 (2)  
 LEPTOPSYLLINAE Baker, 1905  
 CRATYNIINI Hopkins and Rothschild, 1971  
*Cratynius* Jordan, 1933b (5)  
 (*Angustus*) Li, Xie, and Liao, 1980 (2)  
 (*Cratynius*) Jordan, 1933b (3)  
 LEPTOPSYLLINI Baker, 1905  
*Leptopsylla* Jordan and Rothschild, 1911b (29)  
 (*Leptopsylla*) Jordan and Rothschild, 1911b (22)  
 (*Pectinoctenus*) Wagner, 1928b (7)  
*Paractenopsyllus* Wagner, 1938b (8)  
*Peromyscopsylla* I. Fox, 1939a (31)  
*Sigmactenus* Traub, 1950c (5)  
*Tsaractenus* Klein, 1968 (1)  
 XIPHIOPSYLLIDAE Wagner, 1939a (Monogeneric)  
*Xiphiopsylla* Jordan and Rothschild, 1913a (8)  
 Superfamily HYSTRICHOPSYLLOIDEA after Smit, 1982  
 CHIMAEROPSYLLIDAE Ewing and I. Fox, 1943 (8 genera)  
 CHIASTOPSYLLINAE Wagner, 1939a  
*Chiastopsylla* Rothschild, 1910 (16)  
*Cryptopsylla* DeMeillon, 1949 (1)  
*Praeopsylla* Ingram, 1927 (1)  
 CHIMAEROPSYLLINAE Rothschild, 1911a  
*Chimaeropsylla* Rothschild, 1911a (3)  
*Hypsophthalmus* Jordan and Rothschild, 1913 (3)  
 EPIRIMIINAE Jordan, 1948  
*Demeillionia* Hopkins and Rothschild, 1956 (2)  
*Epirimia* DeMeillon, 1940 (1)  
*Macrosclidopsylla* DeMeillon and Marcus, 1958 (1)  
 COPTOPSYLLIDAE Wagner, 1928a (Monogeneric)  
*Coptopsylla* Jordan and Rothschild, 1908 (25)  
 CTENOPHTHALMIDAE Rothschild, 1915a (40 genera)  
 ANOMIOPSYLLINAE Baker, 1905  
 ANOMIOPSYLLINI Baker, 1905  
*Anomiopsyllus* Baker, 1904 (15)  
*Callistopsyllus* Jordan and Rothschild, 1915 (3)  
*Conorhinopsylla* Stewart, 1930b (2)  
*Eopsylla* Argyropulo, 1946 (1)  
*Megarhroglossus* Jordan and Rothschild, 1915 (12)  
*Stenistomera* Rothschild, 1915b (3)

- WAGNERININI Ioff and Argyropulo, 1934  
*Wagnerina* Ioff and Argyropulo, 1934 (9)
- CTENOPHTHALMINAE Rothschild, 1915a
- AGASTOPSYLLINI Johnson, 1957b  
*Agastopsylla* Jordan and Rothschild, 1923 (6)
- CARTERETTINI Hopkins, 1958  
*Carteretta* C. Fox, 1927 (2)
- CTENOPHTHALMINI Rothschild, 1915a  
*Ctenophthalmus* Kolenati, 1856 (267)  
 (*Alloctenus*) Traub and Barrera, 1966 (4)  
 (*Ctenophthalmus*) Kolenati, 1856 (60)  
 (*Ducictenophthalmus*) Hopkins and Rothschild, 1966 (1)  
 (*Ethioctenophthalmus*) Hopkins and Rothschild, 1966 (53)  
 (*Euctenophthalmus*) Wagner, 1940 (60)  
 (*Geoctenophthalmus*) Hopkins and Rothschild, 1966 (6)  
 (*Idioctenophthalmus*) Hopkins and Rothschild, 1966 (5)  
 (*Medioctenophthalmus*) Hopkins and Rothschild, 1966 (28)  
 (*Metactenophthalmus*) Peus, 1977 (5)  
 (*Nearctoctenophthalmus*) Hopkins and Rothschild, 1966 (4)  
 (*Neoctenophthalmus*) Wagner, 1930c (1)  
 (*Palaectenophthalmus*) Wagner, 1940 (10)  
 (*Paractenophthalmus*) Wagner, 1940 (8)  
 (*Sinoctenophthalmus*) Hopkins and Rothschild, 1966 (14)  
 (*Spalacoctenophthalmus*) Wagner, 1940 (8)  
*Palaeopsylla* Wagner, 1903 (56)
- NEOTYPHLOCERATINI Johnson, 1957b  
*Chiliopsylla* Rothschild, 1915b (2)  
*Neotyphloceras* Rothschild, 1914 (4)
- DINOPSYLLINAE Wagner, 1939a  
*Dinopsyllus* Jordan and Rothschild, 1913 (26)  
 (*Cryptoctenopsyllus*) Wagner, 1939a (1)  
 (*Dinopsyllus*) Jordan and Rothschild, 1913 (25)
- DORATOPSYLLINAE Kishida, 1939
- ACEDESTIINI Smit, 1957  
*Acedestia* Jordan, 1937c (1)
- DORATOPSYLLINI Kishida, 1939  
*Corrodopsylla* Wagner, 1929 (6)  
*Doratopsylla* Jordan and Rothschild, 1912 (13)  
*Xenodaeria* Jordan, 1932a (1)
- IDILLINI Smit, 1962a  
*Idilla* Smit, 1957 (1)
- TRITOPSYLLINI Cunha, 1914  
*Adoratopsylla* Ewing, 1925 (11)  
 (*Adoratopsylla*) Ewing, 1925 (7)  
 (*Tritopsylla*) Cunha, 1929 (4)
- LISTROPSYLLINAE Oudemans, 1909a  
*Listropsylla* Oudemans, 1909a (11)
- LIUOPSYLLINAE Zhang, Wu, and Liu, 1985  
*Liuopsylla* Zhang, Wu, and Liu, 1985 (2)
- NEOPSYLLINAE Oudemans, 1909b
- NEOPSYLLINI Oudemans, 1909b  
*Neopsylla* Wagner, 1903 (64)  
*Rothschildiana* Smit, 1952 (2)  
*Tamiophila* Jordan, 1938 (1)
- PARANEOPSYLLINI Hopkins, 1958  
*Genoneopsylla* Wu, Wu, and Liu, 1966 (5)  
*Paraneopsylla* Tiflov, 1937 (6)
- PHALACROPSYLLINI Wagner, 1939a  
*Catallagia* Rothschild, 1915c (17)  
*Delotelis* Jordan, 1937a (2)  
*Epitedia* Jordan, 1938 (7)  
*Meringis* Jordan, 1937a (17)  
*Phalacropsylla* Rothschild, 1915c (6)  
*Strepsylla* Traub, 1950b (8)
- RHADINOPSYLLINAE Wagner, 1930a
- CORYPSYLLINI Beier, 1937  
*Corypsylla* C. Fox, 1908 (3)  
*Nearctopsylla* Rothschild, 1915b (18)  
 (*Beringiopsylla*) Ioff, 1950 (12)  
 (*Chinopsylla*) Ioff, 1950 (1)  
 (*Nearctopsylla*) Rothschild, 1915b (2)  
 (*Neochinopsylla*) Wu, Wang, and Liu, 1965 (3)
- RHADINOPSYLLINI Wagner, 1930a  
*Paratyphloceras* Ewing, 1940 (1)  
*Rhadinopsylla* Jordan and Rothschild, 1912 (70)  
 (*Actenophthalmus*) C. Fox, 1925 (51)  
 (*Micropsylla*) Dunn in Dunn and Parker, 1923 (3)  
 (*Micropsylloides*) Ewing, 1938 (1)  
 (*Ralipsylla*) Ioff, 1946 (5)  
 (*Rhadinopsylla*) Jordan and Rothschild, 1912 (9)  
 (*Sinorhadinopsylla*) Xie, Gong, and Duan, 1990 (1)  
*Stenischia* Jordan, 1932b (14)  
*Trichopsylloides* Ewing, 1938 (1)
- WENZELLINI Traub, 1953b  
*Wenzella* Traub, 1953b (2)
- STENOPONIINAE Cunha, 1914  
*Stenoponia* Jordan and Rothschild, 1911a (28)
- HYSTRICHOPSYLLIDAE Tiraboschi, 1904 (6 genera)
- HYSTRICHOPSYLLINAE Tiraboschi, 1904
- CTENOPARIINI Hopkins, 1958  
*Ctenoparia* Rothschild, 1909b (5)
- HYSTRICHOPSYLLINI Tiraboschi, 1904  
*Atyphloceras* Jordan and Rothschild, 1915 (8)  
*Hystrichopsylla* Taschenberg, 1880 (31)  
*Typhloceras* Wagner, 1903 (8)
- MACROPSYLLINAE Oudemans, 1909b  
*Macropsylla* Rothschild, 1905b (1)  
*Stephanopsylla* Rothschild, 1911b (1)
- PYGIOPSYLLIDAE Wagner, 1939a (37 genera)
- LYCOPSYLLINAE Baker, 1905

- BRADIOPSYLLINI Wagner, 1939a  
*Bradiopsylla* Jordan and Rothschild, 1922c (1)
- CHORISTOPSYLLINI Jordan and Rothschild, 1922c  
*Choristopsylla* Jordan and Rothschild, 1922c (4)
- LYCOPSYLLINI Baker, 1905  
*Lycopsylla* Rothschild, 1904 (2)
- UROPSYLLINI Oudemans, 1909b  
*Uropsylla* Rothschild, 1905b (1)
- PYGIOPSYLLINAE Wagner, 1939a  
*Acanthopsylla* Jordan and Rothschild, 1922c (19)  
*Austropsylla* Holland, 1971 (1)  
*Bibikovana* Traub, 1980 (13)  
*Ctenidiosomus* Jordan, 1931a (4)  
*Geohollandia* Mardon and Dunnet, 1972a (1)  
*Hoogstraalia* Traub, 1951 (4)  
*Notiopsylla* Jordan and Rothschild, 1914 (6)  
*Pagipsylla* Smit, 1979 (1)  
*Pygiopsylla* Rothschild, 1906 (6)  
*Wurunjerria* Mardon and Dunnet, 1972b (1)
- STIVALIINAE Mardon, 1978  
*Afristivalius* Traub, 1980 (15)  
*Astivalius* Smit, 1953b (1)  
*Aviostivalius* Traub, 1980 (3)  
*Ernestinia* Smit, 1953b (1)  
*Farhangia* Traub, 1980 (2)  
*Gryphopsylla* Traub, 1957 (3)  
(*Gryphopsylla*) Traub, 1957 (1)  
(*Migristivalius*) Traub, 1980 (2)  
*Idiochaetis* Jordan, 1937d (1)  
*Lentistivalius* Traub, 1972 (8)  
(*Destivalius*) Traub, 1980 (1)  
(*Lentistivalius*) Traub, 1972 (7)  
*Medwayella* Traub, 1972 (18)  
*Metastivalius* Holland, 1969 (10)  
*Muesebeckella* Traub, 1969 (2)  
*Nestivalius* Traub, 1980 (1)  
*Obtusifrontia* Holland, 1969 (3)  
*Orthopsylloides* Holland, 1969 (3)  
*Papuapsylla* Holland, 1969 (19)  
*Parastivalius* Holland, 1969 (5)  
*Rectidigitus* Holland, 1969 (4)  
*Smitella* Traub, 1968b (1)  
*Stivalius* Jordan and Rothschild, 1922c (9)  
*Striopsylla* Holland, 1969 (3)  
*Tiflovia* Traub, 1977 (2)  
*Traubia* Smit, 1953b (4)  
*Zyx* Smit, 1953b (1)
- STEPHANOCIRCIDAE Wagner, 1928a (9 genera)
- CRANEOPSYLLINAE Wagner, 1939a
- BARREROPSYLLINI Jordan, 1953  
*Barreropsylla* Jordan, 1953 (1)
- CRANEOPSYLLINI Wagner, 1939a  
*Cleopsylla* Rothschild, 1914 (2)  
*Craneopsylla* Rothschild, 1911b (2)
- Nonnapsylla* Wagner, 1938c (2)  
*Plocopsylla* Jordan, 1931b (28)  
*Sphinctopsylla* Jordan, 1931b (6)  
*Tiarapsylla* Wagner, 1937 (3)
- STEPHANOCIRCINAE Wagner, 1928a  
*Coronapsylla* Traub and Dunnet, 1973 (1)  
*Stephanocircus* Skuse, 1893 (8)
- Superfamily MALACOPSYLLOIDEA Baker, 1905
- MALACOPSYLLIDAE Baker, 1905 (2 genera)  
*Malacopsylla* Weyenbergh, 1881 (1)  
*Phthiropsylla* Wagner, 1939b (1)
- RHOPALOPSYLLIDAE Oudemans, 1909b (10 genera)
- PARAPSYLLINAE Johnson, 1957b  
*Delostichus* Jordan, 1942 (7)  
*Ectinorus* Jordan, 1942 (29)  
(*Ectinorus*) Jordan, 1942 (24)  
(*Ichyonus*) Smit, 1987 (4)  
(*Panallius*) Jordan, 1942 (1)  
*Eritranis* Jordan, 1942 (1)  
*Listronius* Jordan, 1942 (3)  
*Papapsyllus* Enderlein, 1903 (20)  
*Tetrapsyllus* Jordan, 1931b (12)  
(*Phylliver*) Smit, 1987 (3)  
(*Tetrapsyllus*) Jordan, 1931b (9)
- RHOPALOPSYLLINAE Johnson, 1957b  
*Polygenis* Jordan, 1939b (49)  
(*Ayshaepsylla*) Smit, 1987 (1)  
(*Gephyropsylla*) Barrera, 1952 (3)  
(*Hechiella*) Barrera, 1952 (2)  
(*Polygenis*) Jordan, 1939b (43)  
*Rhopalopsyllus* Baker, 1905 (13)  
*Scolopsyllus* Méndez, 1968 (1)  
*Tiamastus* Jordan, 1939b (6)
- Superfamily PULICOIDEA Billberg, 1820
- PULICIDAE Billberg, 1820 (26 genera)
- PULICINAE Billberg, 1820
- ARCHAEOPSYLLINI Oudemans, 1909b  
*Aphropsylla* Jordan, 1932c (2)  
*Archaeopsylla* Dampf, 1908 (3)  
*Centetipsylla* Jordan, 1925 (1)  
*Ctenocephalides* Stiles and Collins, 1930 (13)  
*Nesolagobius* Jordan and Rothschild, 1922 (1)
- MOEOPSYLLINI Cheetham, 1988  
*Moeopsylla* Rothschild, 1908a (1)
- PULICINI Billberg, 1820  
*Delopsylla* Jordan, 1926 (1)  
*Echidnophaga* Olliff, 1886 (21)  
*Neotunga* Smit, 1962b (2)  
*Pulex* Linnaeus, 1758 (6)
- SPILOPSYLLINI Oudemans, 1909b  
*Actenopsylla* Jordan and Rothschild, 1923 (1)  
*Cediopsylla* Jordan, 1925 (5)



- Euhoplopsyllus* Ewing, 1940 (8)  
*Hoplopsyllus* Baker, 1905 (2)  
*Ornithopsylla* Rothschild, 1908b (1)  
*Spilopsyllus* Baker, 1905 (1)  
 XENOPSYLLINI Glinkiewicz, 1907  
*Parapulex* Wagner, 1910 (2)  
*Pariodontis* Jordan and Rothschild, 1908 (5)  
*Procaviopsylla* Jordan, 1925 (7)  
*Pulicella* Smit, 1964b (2)  
*Synopsyllus* Wagner and Roubaud, 1932 (5)  
*Synosternus* Jordan, 1925 (8)  
*Xenopsylla* Glinkiewicz, 1907 (86)  
 TUNGINAE Taschenberg, 1880  
 HECTOPSYLLINI Baker, 1904
- Hectopsylla* Frauenfeld, 1860 (11)  
*Rhynchopsyllus* Haller, 1880 (1)  
 TUNGINI Taschenberg, 1880  
*Tunga* Jarocki, 1838 (9)  
*(Brevidigita)* Wang, 1976 (2)  
*(Tunga)* Jarocki, 1838 (7)
- Superfamily VERMIPSYLLOIDEA after Smit, 1982  
 VERMIPSYLLIDAE Wagner, 1889 (3 genera)  
*Chaetopsylla* Kohaut, 1903 (25)  
*(Arctopsylla)* Wagner, 1930a (2)  
*(Chaetopsylla)* Kohaut, 1903 (23)  
*Dorcadia* Ioff, 1946 (3)  
*Vermipsylla* Schimkewitsch, 1885 (10)

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