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## **Sand fly (Diptera: Psychodidae: Phlebotominae) records in Acre, Brazil: a Dataset**

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## **Sand fly (Diptera: Psychodidae: Phlebotominae) records in Acre, Brazil: a Dataset**

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### **Abstract**

Amazonian phlebotomine fauna is considered one of the most diverse in the world. In addition, the region is the most prevalent for leishmaniasis in Brazil and South America. The state of Acre, which belongs to this region, also stands out in terms of the diversity of the sand fly fauna, as well as the occurrence of American tegumentary leishmaniasis. In this context, the present Dataset comprise a bibliographic review of sand fly species recorded in Acre State, Amazon region, Brazil. A total of 1,096 observations from Material Citation type (and two of preserved specimens) were presented using 32 variables according to Darwin Core terms. The bibliographic review was performed in PubMed, Google Scholar, SciELO, BVS (Biblioteca Virtual em Saúde) and bibliographic references cited in related scientific articles. Thus, the present study is a solid report for further studies on sand fly studies in Acre and other Amazon states.

**Key-words:** Phlebotomine sandflies; records; Acre; Amazonia

## MAIN CONTENT

### Data description

A total of 22 articles/books, ranging from years 1964 until 2022, were used to obtain the data. As a result, 1,096 (two from preserved specimens) observations were recorded for the state of Acre, records were obtained from eight municipalities, namely: Acrelândia, Assis Brasil, Brasiléia, Bujari, Cruzeiro do Sul, Feijó, Rio Branco and Xapuri. In these, 116 species of 15 genera of sand flies were identified. Therefore, according to all studies carried out on phlebotomine fauna, the state of Acre has 116 species reported.

The genera with most species were: *Evandromyia* (18), *Psychodopygus* (18), *Psathyromyia* (17), *Lutzomyia* (10), *Nyssomyia* (9), *Trichophoromyia* (9), *Micropygomyia* (9), *Pintomyia* (6), *Pressatia* (4), *Sciopemyia* (4), *Bichromomyia* (3), *Brumptomyia* (3), *Trichopygomyia* (2), *Viannamyia* (2), *Migonemyia* (1). Noteworthy, is that 12 observations were reported as *Trichophoromyia* sp. as the record shows the number of specimens and distribution together for two species *Trichophoromyia auraensis* and *Trichophoromyia ruifreitasi* as their females cannot be distinguished by morphology.

As for the diversity, the municipality with most species recorded were: Assis Brasil (78), Rio Branco (68), Xapuri (58), Bujari/Xapuri/Rio Branco (50), Cruzeiro do Sul (30), Brasiléia (20), Feijó (14), Acrelândia (12) (Table 2).

Is important to notice that the number of species for Rio Branco and Xapuri can be different that showed here (Table 2) as one of the articles clustered the results for both municipalities. So we had to group all species records (for this specific article) under the same name (Bujari/Rio Branco/Xapuri) (Table 2). Another issue is regarding *Psychodopygus corossoniense*, as it is the only one for the state and the author does not provide the municipality where specimens were collected (the only location reference is “AC Highway Km 22”). Therefore, the county for this observation is NA.

We included a chronological table showing all the scientific data used to compile the dataset by municipality, author and species names (Table 3).

## Context

Phlebotominae sand flies (Diptera, Psychodidae) are insects of great medical interest since they can transmit diseases like leishmaniasis, bartonellosis and some arboviruses [1]. In the Americas, 547 sand fly species have been recorded and, the majority in tropical areas, where Amazon region shows the greatest diversity and richness for this insects [2, 3]. Located in this region, the state of Acre state exhibits a great richness of phlebotomine species, with recent reports of new records and descriptions of new species [2, 3, 4, 5, 6].

The first published study were carried out by Martins and Silva (1964) [7] on the sand fly fauna in the capital Rio Branco recording 30 species, with *Pintomyia nevesi* (Damasceno & Arouck, 1956) being the dominant species. In the early 1980s, Arias and Freitas [8] carried out researches in the municipalities of Cruzeiro do Sul, Feijó and Rio Branco, found 50 species, with *Trichophoromyia auraensis* (Mangabeira, 1942) the most frequent. In the late 2000's, Azevedo et al. [9], in the municipalities of Rio Branco, Bujari and Xapuri found a predominance of *Nyssomyia whitmani* (Antunes & Coutinho, 1939), *Ny. antunesi* (Coutinho, 1939) and *Th. auraensis*. At the same time, Silva-Nunes et al. [10] in rural areas of the municipality of Acrelândia found a predominance of *Ny. whitmani* and *Ny. antunesi*. Similar observations have also been made in peri-urban and forest areas of Rio Branco [6, 11]. In Assis Brasil, 67 species were collected, with three new records for Acre, *Evandromyia georgii* (Freitas & Barret 2002), *Lutzomyia evangelistai* Martins & Fraiha 1971 and *Psychodopygus complexus* (Mangabeira, 1941), with the most abundant species being *Trichophoromyia* spp. (*Th. auraensis* / *Th. ruifreitasi*) and *Ps. davisi* (Root, 1934) both found with *Leishmania braziliensis* Vianna 1911 and *L. guyanensis* Floch, 1954 by molecular techniques [12]. In this same locality, two species were described *Lutzomyia naiffi* Teles et al. 2013 and *Th. ruifreitasi* Oliveira et al. 2015, being the female of this indistinguishable from several others of the genus *Trichophoromyia*. In addition, Assis Brazil has recently unveiled new records of sand fly species [13, 14, 15].

Recent studies carried out on the Brazilian-Bolivian border (Brasiléia and Xapuri municipalities) highlighted the richness and diversity of sand fly species, being *Ny. shawi* (Fraiha, Ward & Ready, 1981) e *Trichophoromyia* sp. the most frequent species and, found infected by *Leishmania* DNA [3] In addition, these studies verified the occurrence of the great diversity of species vectors, captured in domiciliar

environments, as well, in forest areas. Also noteworthy in this locality, the description of a new species and revalidation of some taxon [16, 17, 18].

The Acre state is considered a hotspot of American tegumentary leishmaniasis in Amazon, affecting individuals regardless of gender or age group, nevertheless a growing increase in notifications in women and children, which suggests different transmission cycles occurring in the region [19, 20]. Regarding the parasites of the genus *Leishmania* circulating in human cases in the region, all species of the subgenus *Viannia* with the exception of *L. lindenbergi* Silveira, Ishikawa & de Souza, 2002 to date and *L. amazonensis* (of the subgenus *Leishmania*) were described [12, 20, 21].

## Methods

### *Study area*

The state of Acre state is situated in the north and is part of the Amazon region of Brazil, corresponding a 1.92% of the Brazilian territory. The population is about 900 thousands inhabitants. The economy is based mainly in extraction of forest materials, particularly rubber and Brazilian chestnut for exportation. Its vegetation is tropical forest and it has humid and hot equatorial climate. The average annual temperature is 31.5 °C and rainfall is 2100 mm [22].

Geographically the state is divided in two meso-regions named Juruá and Acre Valley, which are subdivided into five micro-regions, such as Rio Branco, Sena Madureira and Brasiléia belonging to Acre Valley and, Cruzeiro do Sul and Tarauacá to Juruá Valley [22].

### *Preserved specimen*

Two preserved sand fly specimens record were included in the Dataset, these insects were captured using CDC/Shannon traps. After capture, the insects were screened, being separated, and properly identified with the capture location. The insects were clarified using the procedure proposed by Forattini (1973) [23]. After the clarification process, the specimens were mounted between slide and cover slip in Enece medium (Cerqueira, 1943) [24] and identified according to Galati [2].

### *Bibliographic review*

To review bibliographic material, the following online databases were used: PubMed, Google Scholar, SciELO, BVS - Biblioteca Virtual em Saúde, using the

following terms: "Acre" AND ("sand fly" OR "sandfly" OR "sandflies" OR "sand flies" OR "Phlebotominae") and, therefore, the first word was mandatory and the others had to appear in one of the ways described. Bibliographic references cited in scientific articles were also used as data sources.

All scientific articles/books were assessed in order to obtain data from 32 standardized variables of Darwin Core Terms (Darwin Core, 2022) (Table 1). These variables were subset in four types to identify the Dataset, to describe the essential information about specimens condition and quantity, capture location and methods, and taxonomic status for each observation (Table 1).

## **DATA VALIDATION AND QUALITY CONTROL**

Data were collected and checked with the aid of other bibliographical references (Galati EAB. Phlebotominae (Diptera, Psychodidae): Classification, Morphology and Terminology of Adults and Identification of American Taxa. In: Rangel EF, Shaw JJ, editors. Brazilian Sand Flies : Biology, Taxonomy, Medical Importance and Control [Internet]. Cham: Springer International Publishing; 2018).

And names were checked by experienced taxonomists.

## **RE-USE POTENTIAL**

We have assembled the most exhaustive scientific data from sand flies in Acre, Brazil that have been published until now. This Dataset will provide an important source of knowledge on the distribution, identification, and taxonomic status of the sand fly species already recorded in the state. Therefore, it will allow future studies to have a sound material as a background for sand fly ecology, epidemiology and taxonomy studies in the area.

## **DATA AVAILABILITY STATEMENT**

The dataset used in this manuscript was deposited at [https://ipt.sibbr.gov.br/sibbr/resource?r=literature\\_review\\_sandflies\\_acre](https://ipt.sibbr.gov.br/sibbr/resource?r=literature_review_sandflies_acre) at the SiBBr IPT(Integrated Publishing Toolkit) referenced as: Espíndola Godoy R, Fernandes Brilhante A, José de Andrade A, Helena Fernandes Shimabukuro P (2022): literature\_review\_sandflies\_acre. v1.0. No organisation. Dataset/Occurrence.

## **List of abbreviations**

*Ny.* - *Nyssomyia*

*Th.* - *Trichophoromyia*

*L. - Leishmania*

### **Ethical Approval**

Not applicable

### **Competing Interests**

The authors declare that they have no competing interests.

### **Funding**

Not applicable

### **Authors' Contributions**

REG compilation, organization of data, and writing of the manuscript; AJA data revision and writing of the manuscript; PHFS data revision and writing of the manuscript; AFB sample collecting, identification, data revision and writing of the manuscript.

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## LEGENDS

Table 1. All variables used in the dataset with its name, details and how they were subset.

Table 2. Phlebotominae sandfly species registered by municipality in Acre State.

Table 3. Chronological records of Phlebotominae sandfly species by author and municipality.

<b>Variable Name</b>	<b>Variable Detail</b>	<b>Variables Subset</b>	
datasetName	name of the dataset	Dataset name and information of the revised data	
basisOfRecord	type of material used to obtain the data		
bibliographicCitation	DOI or link for the citation used		
individualCount	number of specimens recorded	Condition and quantity of captured sand flies	
sex	sex of the specimen		
lifeStage	development stage of captured specimens		
preparation	type of mount solution used to preserve the specimens	Capture: location, type of trap and preparation details	
samplingProtocol	type of trap used to capture the insects		
samplingEffort	total time spent capturing in hours		
habitat	type of environment where the trap was located		
continent	continent where the study was conducted		
country	country where the study was conducted		
countryCode	international code for the country		
stateProvince	state where the study was carried out		
county	municipality where the study was carried out		
locality	additional information of location where the insect was captured		
locationRemarks	specific area or condition where the insect was captured		
decimalLatitude	capture site latitude in decimal degrees		
decimalLongitude	capture side longitude in decimal degrees		
identifiedBy	name of author(s) that identified the specimens		Species Identification: Name of authors, year of identification and Taxonomic detail of sand fly specimens
dateIdentified	year when the record was published		
scientificName	species name and authorship		
kingdom	kingdom that the species belong		
phylum	phylum that the species belong		
class	class that the species belong		
order	order that the species belong		
family	family that the species belong		
genus	genus that the species belong		
specificEpithet	species specific name		
infraspecificEpithet	species sub-specific name		
taxonRank	taxonomic level of the specimen		
ScientificNameAuthorship	author and year of species description		

Table 1. All variables used in the dataset with its name, details and how they were subset.

<b>County</b>	<b>Species Name</b>	<b>Author</b>
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	<i>Evandromyia bacula</i>	(Martins, Falcao & Silva, 1965)
	<i>Evandromyia saulensis</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia walkeri</i>	(Newstead, 1914)
	<i>Lutzomyia sherlocki</i>	Martins, Silva & Falcao, 1971
	<i>Nyssomyia antunesi</i>	(Coutinho, 1939)
Acrelândia	<i>Nyssomyia whitmani</i>	(Antunes & Coutinho, 1939)
	<i>Psychodopygus davisi</i>	(Root, 1934)
	<i>Sciopemyia servulolimai</i>	(Damasceno & Causey, 1945)
	<i>Sciopemyia sordellii</i>	(Shannon & Del Ponte, 1927)
	<i>Trichophoromyia brachipyga</i>	(Mangabeira, 1942)
	<i>Trichophoromyia ubiquitalis</i>	(Mangabeira, 1942)
	<i>Viannamyia furcata</i>	(Mangabeira, 1941)
<hr/>		
	<i>Bichromomyia flaviscutellata</i>	(Mangabeira, 1942)
	<i>Bichromomyia reducta</i>	(Felicangeli, Ramirez Perez & Ramirez, 1988)
	<i>Brumptomyia avellari</i>	(Costa Lima, 1932)
	<i>Brumptomyia brumpti</i>	(Larrousse, 1920)
	<i>Brumptomyia pentacantha</i>	(Barretto, 1947)
	<i>Evandromyia andersoni</i>	(Le Pont & Desjeux, 1988)
	<i>Evandromyia bacula</i>	(Martins, Falcao & Silva, 1965)
	<i>Evandromyia georgii</i>	(Freitas & Barrett, 2002)
	<i>Evandromyia inpai</i>	(Young & Arias, 1977)
	<i>Evandromyia monstrosa</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia sallesi</i>	(Galvao & Coutinho, 1939)
	<i>Evandromyia saulensis</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia sipani</i>	(Fernandez, Carbajal, Alexander & Need, 1994)
	<i>Evandromyia tarapacaensis</i>	(Le Pont, Torres-Espejo & Galati, 1997)
Assis Brasil	<i>Evandromyia termitophila</i>	(Martins, Falcao & Silva, 1964)
	<i>Evandromyia walkeri</i>	(Newstead, 1914)
	<i>Evandromyia williamsi</i>	(Damasceno, Causey & Arouck, 1945)
	<i>Evandromyia wilsoni</i>	(Damasceno & Causey, 1945)
	<i>Lutzomyia evangelistai</i>	Martins & Fraiha, 1971
	<i>Lutzomyia flabellata</i>	Martins & Silva, 1964
	<i>Lutzomyia gonzaloi</i>	Canales & Perez, 1997
	<i>Lutzomyia kirigetiensis</i>	Galati & Caceres, 1992
	<i>Lutzomyia longipalpis</i>	(Lutz & Neiva, 1912)
	<i>Lutzomyia marinkellei</i>	Young, 1971
	<i>Lutzomyia munaypata</i>	Ogosuku, Chevarria, Porras & Perez, 1999
	<i>Lutzomyia sherlocki</i>	Martins, Silva & Falcao, 1971
	<i>Micropygomyia longipennis</i>	(Barretto, 1946)
	<i>Micropygomyia micropyga</i>	(Mangabeira, 1942)
	<i>Micropygomyia oswaldoi</i>	(Mangabeira, 1942)
	<i>Micropygomyia peresi</i>	(Mangabeira, 1942)
	<i>Micropygomyia trinidadensis</i>	(Newstead, 1922)

<i>Micropygomyia villelai</i>	(Mangabeira, 1942)
<i>Migonemyia migonei</i>	(Franca, 1920)
<i>Nyssomyia antunesi</i>	(Coutinho, 1939)
<i>Nyssomyia richardwardi</i>	(Ready & Fraiha, 1981)
<i>Nyssomyia shawi</i>	(Fraiha, Ward & Ready, 1981)
<i>Nyssomyia umbratilis</i>	(Ward & Fraiha, 1977)
<i>Nyssomyia whitmani</i>	(Antunes & Coutinho, 1939)
<i>Nyssomyia yuilli yuilli</i>	(Young & Porter, 1972)
<i>Pintomyia christenseni</i>	(Young & Duncan, 1994)
<i>Pintomyia naiffi</i>	(Freitas & Oliveira, 2013)
<i>Pintomyia nevesi</i>	(Damasceno & Arouck, 1956)
<i>Pintomyia serrana</i>	(Damasceno & Arouck, 1949)
<i>Pressatia calcarata</i>	(Martins & Silva, 1964)
<i>Pressatia choti</i>	(Floch & Abonnenc, 1941)
<i>Pressatia triacantha</i>	(Mangabeira, 1942)
<i>Psathyromyia abbonenci</i>	(Floch & Chassignet, 1947)
<i>Psathyromyia abunaensis</i>	(Martins, Falcao & Silva, 1965)
<i>Psathyromyia aragaoi</i>	(Costa Lima, 1932)
<i>Psathyromyia bigeniculata</i>	(Floch & Abonnenc, 1941)
<i>Psathyromyia Braziliensis</i>	(Costa Lima, 1932)
<i>Psathyromyia campbelli</i>	(Damasceno, Causey & Arouck, 1945)
<i>Psathyromyia dendrophyla</i>	Mangabeira, 1942
<i>Psathyromyia dreisbachi</i>	(Causey & Damasceno, 1945)
<i>Psathyromyia lutziana</i>	(Costa Lima, 1932)
<i>Psathyromyia punctigeniculata</i>	(Floch & Abonnenc, 1944)
<i>Psathyromyia shannoni</i>	(Dyar, 1929)
<i>Psychodopygus amazonensis</i>	(Root, 1934)
<i>Psychodopygus ayrozai</i>	(Barretto & Coutinho, 1940)
<i>Psychodopygus bispinosus</i>	(Fairchild & Hertig, 1951)
<i>Psychodopygus carrerai carrerai</i>	(Barretto, 1946)
<i>Psychodopygus complexus</i>	(Mangabeira, 1941)
<i>Psychodopygus davisi</i>	(Root, 1934)
<i>Psychodopygus geniculatus</i>	(Mangabeira, 1941)
<i>Psychodopygus hirsutus hirsutus</i>	(Mangabeira, 1942)
<i>Psychodopygus lainsoni</i>	Fraiha & Ward, 1974
<i>Psychodopygus llanosmartinsi</i>	Fraiha & Ward, 1980
<i>Psychodopygus paraensis</i>	(Costa Lima, 1941)
<i>Psychodopygus yucumensis</i>	(Le Pont, Caillard, Tibayrenc & Desjeux, 1986)
<i>Sciopemyia preclara</i>	(Young & Arias, 1984)
<i>Sciopemyia servulolimai</i>	(Damasceno & Causey, 1945)
<i>Sciopemyia sordellii</i>	(Shannon & Del Ponte, 1927)
<i>Sciopemyia vattierae</i>	(Le Pont & Desjeux, 1992)
<i>Trichophoromyia auraensis</i>	(Mangabeira, 1942)
<i>Trichophoromyia melloi</i>	(Causey & Damasceno, 1945)

	<i>Trichophoromyia ruifreitasi</i>	Oliveira, Teles, Medeiros, Camargo & Pessoa 2015	
	<i>Trichophoromyia ubiquitalis</i>	(Mangabeira, 1942)	
	<i>Viannamyia furcata</i>	(Mangabeira, 1941)	
	<i>Lutzomyia flabellata</i>	Martins & Silva, 1964	
	<i>Lutzomyia sherlocki</i>	Martins, Silva & Falcao, 1971	
	<i>Nyssomyia antunesi</i>	(Coutinho, 1939)	
	<i>Nyssomyia shawi</i>	(Fraiha, Ward & Ready, 1981)	
	<i>Nyssomyia umbratilis</i>	(Ward & Fraiha, 1977)	
	<i>Nyssomyia whitmani</i>	(Antunes & Coutinho, 1939)	
	<i>Nyssomyia yuilli yuilli</i>	(Young & Porter, 1972)	
	<i>Psychodopygus amazonensis</i>	(Root, 1934)	
	<i>Psychodopygus bispinosus</i>	(Fairchild & Hertig, 1951)	
Brasiléia	<i>Psychodopygus carrerai carrerai</i>	(Barretto, 1946)	
	<i>Psychodopygus chagasi</i>	(Costa Lima, 1941)	
	<i>Psychodopygus clautreii</i>	(Abonnenc, Leger & Fauran, 1979)	
	<i>Psychodopygus complexus</i>	(Mangabeira, 1941)	
	<i>Psychodopygus davisi</i>	(Root, 1934)	
	<i>Psychodopygus dorlinsis</i>	(Le Pont & Desjeux, 1982)	
	<i>Psychodopygus geniculatus</i>	(Mangabeira, 1941)	
	<i>Psychodopygus hirsutus hirsutus</i>	(Mangabeira, 1942)	
	<i>Psychodopygus lainsoni</i>	Fraiha & Ward, 1974	
	<i>Psychodopygus llanosmartinsi</i>	Fraiha & Ward, 1974	
	<i>Psychodopygus paraensis</i>	(Costa Lima, 1941)	
		<i>Bichromomyia flaviscutellata</i>	(Mangabeira, 1942)
		<i>Bichromomyia olmeca bicolor</i>	(Fairchild & Theodor, 1971)
		<i>Brumptomyia avellari</i>	(Costa Lima, 1932)
	<i>Evandromyia bacula</i>	(Martins, Falcao & Silva, 1965)	
	<i>Evandromyia bourrouli</i>	(Barretto & Coutinho, 1941)	
	<i>Evandromyia infraspinoza</i>	(Mangabeira, 1941)	
	<i>Evandromyia monstrosa</i>	(Floch & Abonnenc, 1944)	
	<i>Evandromyia saulensis</i>	(Floch & Abonnenc, 1944)	
	<i>Evandromyia sericea</i>	(Floch & Abonnenc, 1944)	
Bujari/ Xapuri/ Rio Branco	<i>Evandromyia walkeri</i>	(Newstead, 1914)	
	<i>Lutzomyia gomezi</i>	(Nitzulescu, 1931)	
	<i>Lutzomyia sherlocki</i>	Martins, Silva & Falcao, 1971	
	<i>Micropygomyia micropyga</i>	(Mangabeira, 1942)	
	<i>Micropygomyia peresi</i>	(Mangabeira, 1942)	
	<i>Micropygomyia pilosa</i>	(Damasceno & Causey, 1944)	
	<i>Micropygomyia villelai</i>	(Mangabeira, 1942)	
	<i>Migonemyia migonei</i>	(Franca, 1920)	
	<i>Nyssomyia antunesi</i>	(Coutinho, 1939)	
	<i>Nyssomyia richardwardi</i>	(Ready & Fraiha, 1981)	
	<i>Nyssomyia shawi</i>	(Fraiha, Ward & Ready, 1981)	
	<i>Nyssomyia umbratilis</i>	(Ward & Fraiha, 1977)	

	<i>Nyssomyia whitmani</i>	(Antunes & Coutinho, 1939)
	<i>Nyssomyia yuilli yuilli</i>	(Young & Porter, 1972)
	<i>Pintomyia damascenoi</i>	(Mangabeira, 1941)
	<i>Pintomyia nevesi</i>	(Damasceno & Arouck, 1956)
	<i>Pintomyia serrana</i>	(Damasceno & Arouck, 1949)
	<i>Pressatia choti</i>	(Floch & Abonnenc, 1941)
	<i>Psathyromyia aragaoi</i>	(Costa Lima, 1932)
	<i>Psathyromyia dendrophyla</i>	Mangabeira, 1942
	<i>Psathyromyia lutziana</i>	(Costa Lima, 1932)
	<i>Psathyromyia punctigeniculata</i>	(Floch & Abonnenc, 1944)
	<i>Psathyromyia shannoni</i>	(Dyar, 1929)
	<i>Psychodopygus amazonensis</i>	(Root, 1934)
	<i>Psychodopygus ayrozai</i>	(Barretto & Coutinho, 1940)
	<i>Psychodopygus carrerai carrerai</i>	(Barretto, 1946)
	<i>Psychodopygus chagasi</i>	(Costa Lima, 1941)
	<i>Psychodopygus corossoniensis</i>	(Le Pont & Pajot, 1978)
	<i>Psychodopygus davisii</i>	(Root, 1934)
	<i>Psychodopygus hirsutus hirsutus</i>	(Mangabeira, 1942)
	<i>Psychodopygus lainsoni</i>	Fraiha & Ward, 1974
	<i>Psychodopygus llanosmartinsi</i>	Fraiha & Ward, 1980
	<i>Psychodopygus paraensis</i>	(Costa Lima, 1941)
	<i>Sciopemyia preclara</i>	(Young & Arias, 1984)
	<i>Sciopemyia sordellii</i>	(Shannon & Del Ponte, 1927)
	<i>Trichophoromyia auraensis</i>	(Mangabeira, 1942)
	<i>Trichophoromyia ininii</i>	(Floch & Abonnenc, 1943)
	<i>Trichophoromyia ubiquitalis</i>	(Mangabeira, 1942)
	<i>Trichopygomyia dasypodogeton</i>	(Castro, 1939)
	<i>Trichopygomyia elegans</i>	(Martins, Llanos & Silva, 1976)
	<i>Viannamyia furcata</i>	(Mangabeira, 1941)
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	<i>Bichromomyia flaviscutellata</i>	(Mangabeira, 1942)
	<i>Bichromomyia olmeca bicolor</i>	(Fairchild & Theodor, 1971)
	<i>Brumptomyia pentacantha</i>	(Barretto, 1947)
	<i>Evandromyia evandroi</i>	(Costa Lima & Antunes, 1936)
	<i>Evandromyia monstrosa</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia saulensis</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia tarapacaensis</i>	(Le Pont, Torrez-Espejo & Galati, 1997)
	<i>Evandromyia walkeri</i>	(Newstead, 1914)
	<i>Lutzomyia sherlocki</i>	Martins, Silva & Falcao, 1971
	<i>Micropygomyia micropyga</i>	(Mangabeira, 1942)
	<i>Migonemyia migonei</i>	(Franca, 1920)
	<i>Nyssomyia anduzei</i>	(Rozeboom, 1942)
	<i>Nyssomyia antunesi</i>	(Coutinho, 1939)
	<i>Nyssomyia umbratilis</i>	(Ward & Fraiha, 1977)
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Cruzeiro do Sul	<i>Pintomyia nevesi</i>	(Damasceno & Arouck, 1956)



	<i>Pintomyia serrana</i>	(Damasceno & Arouck, 1949)
	<i>Pressatia calcarata</i>	(Martins & Silva, 1964)
	<i>Pressatia triacantha</i>	(Mangabeira, 1942)
	<i>Psathyromyia abbonenci</i>	(Floch & Chassignet, 1947)
	<i>Psathyromyia aragaoi</i>	(Costa Lima, 1932)
	<i>Psathyromyia campbelli</i>	(Damasceno, Causey & Arouck, 1945)
	<i>Psathyromyia dendrophylla</i>	Mangabeira, 1942
	<i>Psathyromyia punctigeniculata</i>	(Floch & Abonnenc, 1944)
	<i>Psathyromyia runoides</i>	(Fairchild & Hertig, 1953)
	<i>Psathyromyia scaffi</i>	(Damasceno & Arouck, 1956)
	<i>Psathyromyia shannoni</i>	(Dyar, 1929)
	<i>Psychodopygus hirsutus hirsutus</i>	(Mangabeira, 1942)
	<i>Trichophoromyia auraensis</i>	(Mangabeira, 1942)
	<i>Trichophoromyia flochi</i>	(Abonnenc & Chassignet, 1948)
	<i>Viannamyia furcata</i>	(Mangabeira, 1941)
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	<i>Brumptomyia pentacantha</i>	(Barretto, 1947)
	<i>Evandromyia saulensis</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia walkeri</i>	(Newstead, 1914)
	<i>Lutzomyia gomezi</i>	(Nitzulescu, 1931)
	<i>Micropygomyia micropyga</i>	(Mangabeira, 1942)
	<i>Micropygomyia trinidadensis</i>	(Newstead, 1922)
Feijó	<i>Migonemyia migonei</i>	(Franca, 1920)
	<i>Nyssomyia antunesi</i>	(Coutinho, 1939)
	<i>Nyssomyia sylvicola</i>	(Floch & Abonnenc, 1945)
	<i>Pintomyia nevesi</i>	(Damasceno & Arouck, 1956)
	<i>Pintomyia serrana</i>	(Damasceno & Arouck, 1949)
	<i>Psathyromyia campbelli</i>	(Damasceno, Causey & Arouck, 1945)
	<i>Psathyromyia dendrophylla</i>	Mangabeira, 1942
	<i>Psathyromyia shannoni</i>	(Dyar, 1929)
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	<i>Bichromomyia flaviscutellata</i>	(Mangabeira, 1942)
	<i>Bichromomyia olmeca bicolor</i>	(Fairchild & Theodor, 1971)
	<i>Brumptomyia avellari</i>	(Costa Lima, 1932)
	<i>Brumptomyia brumpti</i>	(Larrousse, 1920)
	<i>Brumptomyia pentacantha</i>	(Barretto, 1947)
	<i>Evandromyia andersoni</i>	(Le Pont & Desjeux, 1988)
	<i>Evandromyia bacula</i>	(Martins, Falcao & Silva, 1965)
Rio Branco	<i>Evandromyia begoniae</i>	(Ortiz & Torrez, 1975)
	<i>Evandromyia bourrouli</i>	(Barretto & Coutinho, 1941)
	<i>Evandromyia infraspinosa</i>	(Mangabeira, 1941)
	<i>Evandromyia monstruosa</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia sallesi</i>	(Galvao & Coutinho, 1939)
	<i>Evandromyia saulensis</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia sericea</i>	(Floch & Abonnenc, 1944)
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	<i>Evandromyia walkeri</i>	(Newstead, 1914)

<i>Lutzomyia evangelistai</i>	Martins & Fraiha, 1971
<i>Lutzomyia flabellata</i>	Martins & Silva, 1964
<i>Lutzomyia gomezi</i>	(Nitzulescu, 1931)
<i>Lutzomyia sherlocki</i>	Martins, Silva & Falcao, 1971
<i>Micropygomyia acanthopharynx</i>	(Martins, Falcao & Silva, 1962)
<i>Micropygomyia longipennis</i>	(Barretto, 1946)
<i>Micropygomyia micropyga</i>	(Mangabeira, 1942)
<i>Micropygomyia pusilla</i>	(Dias, Martins, Falco & Silva, 1986)
<i>Micropygomyia trinidadensis</i>	(Newstead, 1922)
<i>Migonemyia migonei</i>	(Franca, 1920)
<i>Nyssomyia anduzei</i>	(Rozeboom, 1942)
<i>Nyssomyia antunesi</i>	(Coutinho, 1939)
<i>Nyssomyia richardwardi</i>	(Ready & Fraiha, 1981)
<i>Nyssomyia shawi</i>	(Fraiha, Ward & Ready, 1981)
<i>Nyssomyia sylvicola</i>	(Floch & Abonnenc, 1945)
<i>Nyssomyia umbratilis</i>	(Ward & Fraiha, 1977)
<i>Nyssomyia whitmani</i>	(Antunes & Coutinho, 1939)
<i>Pintomyia nevesi</i>	(Damasceno & Arouck, 1956)
<i>Pintomyia odax</i>	(Fairchild & Hertig, 1961)
<i>Pintomyia serrana</i>	(Damasceno & Arouck, 1949)
<i>Pressatia calcarata</i>	(Martins & Silva, 1964)
<i>Pressatia choti</i>	(Floch & Abonnenc, 1941)
<i>Pressatia duncanae</i>	(Le Pont, Martinez, Torrez-Espejo & Dujardin, 1998)
<i>Psathyromyia abbonenci</i>	(Floch & Chassignet, 1947)
<i>Psathyromyia abunaensis</i>	(Martins, Falcao & Silva, 1965)
<i>Psathyromyia aragaoi</i>	(Costa Lima, 1932)
<i>Psathyromyia bigeniculata</i>	(Floch & Abonnenc, 1941)
<i>Psathyromyia campbelli</i>	(Damasceno, Causey & Arouck, 1945)
<i>Psathyromyia dendrophyla</i>	Mangabeira, 1942
<i>Psathyromyia lutziana</i>	(Costa Lima, 1932)
<i>Psathyromyia punctigeniculata</i>	(Floch & Abonnenc, 1944)
<i>Psathyromyia scaffi</i>	(Damasceno & Arouck, 1956)
<i>Psathyromyia shannoni</i>	(Dyar, 1929)
<i>Psychodopygus amazonensis</i>	(Root, 1934)
<i>Psychodopygus ayrozai</i>	(Barretto & Coutinho, 1940)
<i>Psychodopygus carrerai carrerai</i>	(Barretto, 1946)
<i>Psychodopygus claustrai</i>	(Abonnenc, Leger & Fauran, 1979)
<i>Psychodopygus davisi</i>	(Root, 1934)
<i>Psychodopygus geniculatus</i>	(Mangabeira, 1941)
<i>Psychodopygus guyanensis</i>	(Floch & Abonnenc, 1941)
<i>Psychodopygus hirsutus hirsutus</i>	(Mangabeira, 1942)
<i>Psychodopygus llanosmartinsi</i>	Fraiha & Ward, 1980
<i>Psychodopygus paraensis</i>	(Costa Lima, 1941)
<i>Sciopemyia servulolimai</i>	(Damasceno & Causey, 1945)

	<i>Sciopemyia sordellii</i>	(Shannon & Del Ponte, 1927)
	<i>Sciopemyia vattierae</i>	(Le Pont & Desjeux, 1992)
	<i>Trichophoromyia auraensis</i>	(Mangabeira, 1942)
	<i>Trichophoromyia brachipyga</i>	(Mangabeira, 1942)
	<i>Trichophoromyia octavioi</i>	(Vargas, 1949)
	<i>Trichophoromyia ruifreitasi</i>	Oliveira, Teles, Medeiros, Camargo & Pessoa 2015
	<i>Trichophoromyia ubiquitalis</i>	(Mangabeira, 1942)
	<i>Viannamyia furcata</i>	(Mangabeira, 1941)
	<i>Viannamyia tuberculata</i>	(Mangabeira, 1941)
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	<i>Bichromomyia flaviscutellata</i>	(Mangabeira, 1942)
	<i>Brumptomyia avellari</i>	(Costa Lima, 1932)
	<i>Brumptomyia brumpti</i>	(Larrousse, 1920)
	<i>Brumptomyia pentacantha</i>	(Barretto, 1947)
	<i>Evandromyia andersoni</i>	(Le Pont & Desjeux, 1988)
	<i>Evandromyia bacula</i>	(Martins, Falcao & Silva, 1965)
	<i>Evandromyia begoniae</i>	(Ortiz & Torrez, 1975)
	<i>Evandromyia infraspinosa</i>	(Mangabeira, 1941)
	<i>Evandromyia saulensis</i>	(Floch & Abonnenc, 1944)
	<i>Evandromyia tarapacaensis</i>	(Le Pont, Torrez-Espejo & Galati, 1997)
	<i>Evandromyia termitophila</i>	(Martins, Falcao & Silva, 1964)
	<i>Evandromyia walkeri</i>	(Newstead, 1914)
	<i>Lutzomyia evangelistai</i>	Martins & Fraiha, 1971
	<i>Lutzomyia marinkellei</i>	Young, 1971
	<i>Lutzomyia pifanoi</i>	(Ortiz, 1972)
	<i>Lutzomyia sherlocki</i>	Martins, Silva & Falcao, 1971
	<i>Micropygomyia trinidadensis</i>	(Newstead, 1922)
Xapuri	<i>Migonemyia migonei</i>	(Franca, 1920)
	<i>Nyssomyia antunesi</i>	(Coutinho, 1939)
	<i>Nyssomyia fraihai</i>	(Martins, Falcao & Silva, 1979)
	<i>Nyssomyia richardwardi</i>	(Ready & Fraiha, 1981)
	<i>Nyssomyia shawi</i>	(Fraiha, Ward & Ready, 1981)
	<i>Nyssomyia whitmani</i>	(Antunes & Coutinho, 1939)
	<i>Pintomyia nevesi</i>	(Damasceno & Arouck, 1956)
	<i>Pintomyia serrana</i>	(Damasceno & Arouck, 1949)
	<i>Pressatia choti</i>	(Floch & Abonnenc, 1941)
	<i>Pressatia triacantha</i>	(Mangabeira, 1942)
	<i>Psathyromyia abbonenci</i>	(Floch & Chassignet, 1947)
	<i>Psathyromyia aclydifera</i>	(Faichild & Hertig, 1952)
	<i>Psathyromyia aragaoi</i>	(Costa Lima, 1932)
	<i>Psathyromyia bigeniculata</i>	(Floch & Abonnenc, 1941)
	<i>Psathyromyia campbelli</i>	(Damasceno, Causey & Arouck, 1945)
	<i>Psathyromyia coutinhoi</i>	(Mangabeira, 1942)
	<i>Psathyromyia dendrophylla</i>	Mangabeira, 1942
	<i>Psathyromyia elizabethdorvalae</i>	Brilhante, Sabio & Galati, 2016

<i>Psathyromyia pradobarrientosi</i>	(Le Pont, Matias, Martinez & Dujardin, 2004)
<i>Psathyromyia punctigeniculata</i>	(Floch & Abonnenc, 1944)
<i>Psychodopygus amazonensis</i>	(Root, 1934)
<i>Psychodopygus bispinosus</i>	(Fairchild & Hertig, 1951)
<i>Psychodopygus carrerai carrerai</i>	(Barretto, 1946)
<i>Psychodopygus chagasi</i>	(Costa Lima, 1941)
<i>Psychodopygus claustrai</i>	(Abonnenc, Leger & Fauran, 1979)
<i>Psychodopygus davisii</i>	(Root, 1934)
<i>Psychodopygus francoisleponti</i>	Zapata, Depaquit & Leon, 2012
<i>Psychodopygus hirsutus hirsutus</i>	(Mangabeira, 1942)
<i>Psychodopygus lainsoni</i>	Fraiha & Ward, 1974
<i>Psychodopygus llanosmartinsi</i>	Fraiha & Ward, 1980
<i>Psychodopygus paraensis</i>	(Costa Lima, 1941)
<i>Psychodopygus yucumensis</i>	(Le Pont, Caillard, Tibayrenc & Desjeux, 1986)
<i>Sciopemyia servulolimai</i>	(Damasceno & Causey, 1945)
<i>Sciopemyia sordellii</i>	(Shannon & Del Ponte, 1927)
<i>Trichophoromyia auraensis</i>	(Mangabeira, 1942)
<i>Trichophoromyia octavioi</i>	(Vargas, 1949)
<i>Trichophoromyia omagua</i>	(Martins, Llanos & Silva, 1976)
<i>Trichophoromyia ruifreitasi</i>	Oliveira, Teles, Medeiros, Camargo & Pessoa 2015
<i>Trichophoromyia sp.</i>	
<i>Trichophoromyia ubiquitalis</i>	(Mangabeira, 1942)
<i>Trichopygomyia dasypodogeton</i>	(Castro, 1939)
<i>Viannamyia furcata</i>	(Mangabeira, 1941)
NA	<i>Psychodopygus corrossoniensis</i> (Le Pont & Pajot, 1978)

Table 2. Phlebotominae sandfly species registered by municipality in Acre State.

<b>Municipality</b>	<b>Author</b>	<b>Date of publication</b>	<b>Species Name</b>
Cruzeiro do Sul	Martins & Silva	1964	Brumptomyia pentacantha (Barretto, 1947)
Cruzeiro do Sul	Martins & Silva	1964	Evandromyia saulensis (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Martins & Silva	1964	Evandromyia walkeri (Newstead, 1914)
Cruzeiro do Sul	Martins & Silva	1964	Micropygomyia micropyga (Mangabeira, 1942)
Cruzeiro do Sul	Martins & Silva	1964	Migonemyia migonei (Franca, 1920)
Cruzeiro do Sul	Martins & Silva	1964	Nyssomyia antunesi (Coutinho, 1939)
Cruzeiro do Sul	Martins & Silva	1964	Pintomyia nevesi (Damasceno & Arouck, 1956)
Cruzeiro do Sul	Martins & Silva	1964	Pintomyia serrana (Damasceno & Arouck, 1949)
Cruzeiro do Sul	Martins & Silva	1964	Pressatia calcarata (Martins & Silva, 1964)
Cruzeiro do Sul	Martins & Silva	1964	Pressatia triacantha (Mangabeira, 1942)
Cruzeiro do Sul	Martins & Silva	1964	Psathyromyia abbonenci (Floch & Chassignet, 1947)
Cruzeiro do Sul	Martins & Silva	1964	Psathyromyia aragai (Costa Lima, 1932)
Cruzeiro do Sul	Martins & Silva	1964	Psathyromyia campbelli (Damasceno, Causey & Arouck, 1945)
Cruzeiro do Sul	Martins & Silva	1964	Psathyromyia punctigeniculata (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Martins & Silva	1964	Psathyromyia shannoni (Dyar, 1929)
Cruzeiro do Sul	Martins & Silva	1964	Trichophoromyia auraensis (Mangabeira, 1942)
Cruzeiro do Sul	Martins & Silva	1964	Trichophoromyia flochi (Abonnenc & Chassignet, 1948)
Cruzeiro do Sul	Martins & Silva	1964	Viannamyia furcata (Mangabeira, 1941)
Feijo	Martins & Silva	1964	Brumptomyia pentacantha (Barretto, 1947)
Feijo	Martins & Silva	1964	Evandromyia saulensis (Floch & Abonnenc, 1944)
Feijo	Martins & Silva	1964	Evandromyia walkeri (Newstead, 1914)
Feijo	Martins & Silva	1964	Micropygomyia micropyga (Mangabeira, 1942)
Feijo	Martins & Silva	1964	Micropygomyia trinidadensis (Newstead, 1922)
Feijo	Martins & Silva	1964	Nyssomyia antunesi (Coutinho, 1939)
Feijo	Martins & Silva	1964	Nyssomyia sylvicola (Floch & Abonnenc, 1945)
Feijo	Martins & Silva	1964	Pintomyia nevesi (Damasceno & Arouck, 1956)
Feijo	Martins & Silva	1964	Pintomyia serrana (Damasceno & Arouck, 1949)
Feijo	Martins & Silva	1964	Psathyromyia campbelli (Damasceno, Causey & Arouck, 1945)
Feijo	Martins & Silva	1964	Psathyromyia shannoni (Dyar, 1929)
Rio Branco	Martins & Silva	1964	Brumptomyia avellari (Costa Lima, 1932)
Rio Branco	Martins & Silva	1964	Brumptomyia pentacantha (Barretto, 1947)
Rio Branco	Martins & Silva	1964	Evandromyia bourrouli (Barretto & Coutinho, 1941)
Rio Branco	Martins & Silva	1964	Evandromyia sallesi (Galvao & Coutinho, 1939)
Rio Branco	Martins & Silva	1964	Evandromyia saulensis (Floch & Abonnenc, 1944)
Rio Branco	Martins & Silva	1964	Evandromyia sericea (Floch & Abonnenc, 1944)
Rio Branco	Martins & Silva	1964	Evandromyia walkeri (Newstead, 1914)
Rio Branco	Martins & Silva	1964	Lutzomyia flabellata Martins & Silva, 1964
Rio Branco	Martins & Silva	1964	Micropygomyia longipennis (Barretto, 1946)
Rio Branco	Martins & Silva	1964	Micropygomyia micropyga (Mangabeira, 1942)
Rio Branco	Martins & Silva	1964	Micropygomyia trinidadensis (Newstead, 1922)
Rio Branco	Martins & Silva	1964	Migonemyia migonei (Franca, 1920)
Rio Branco	Martins & Silva	1964	Nyssomyia antunesi (Coutinho, 1939)

Rio Branco	Martins & Silva	1964	<i>Nyssomyia sylvicola</i> (Floch & Abonnenc, 1945)
Rio Branco	Martins & Silva	1964	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Rio Branco	Martins & Silva	1964	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949) <i>Psathyromyia campbelli</i> (Damasceno, Causey & Arouck, 1945)
Rio Branco	Martins & Silva	1964	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Rio Branco	Martins & Silva	1964	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Rio Branco	Martins & Silva	1964	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Rio Branco	Martins & Silva	1964	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Rio Branco	Martins & Silva	1964	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Rio Branco	Martins & Silva	1964	<i>Viannamyia tuberculata</i> (Mangabeira, 1941)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Evandromyia walkeri</i> (Newstead, 1914)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Migonemyia migonei</i> (Franca, 1920)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Pressatia triacantha</i> (Mangabeira, 1942)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Psathyromyia abbonenci</i> (Floch & Chassignet, 1947)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Psathyromyia aragaii</i> (Costa Lima, 1932)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Psathyromyia campbelli</i> (Damasceno, Causey & Arouck, 1945)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Martins &	1978	<i>Psathyromyia runoides</i> (Fairchild & Hertig, 1953)

Cruzeiro do Sul	Williams & Falcao Martins & Williams & Falcao	1978	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Cruzeiro do Sul	Martins & Williams & Falcao	1978	<i>Trichophoromyia flochi</i> (Abonnenc & Chassignet, 1948)
Feijo	Martins & Williams & Falcao	1978	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Feijo	Martins & Williams & Falcao	1978	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Feijo	Martins & Williams & Falcao	1978	<i>Evandromyia walkeri</i> (Newstead, 1914)
Feijo	Martins & Williams & Falcao	1978	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Feijo	Martins & Williams & Falcao	1978	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Feijo	Martins & Williams & Falcao	1978	<i>Migonemyia migonei</i> (Franca, 1920)
Feijo	Martins & Williams & Falcao	1978	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Feijo	Martins & Williams & Falcao	1978	<i>Nyssomyia sylvicola</i> (Floch & Abonnenc, 1945)
Feijo	Martins & Williams & Falcao	1978	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Feijo	Martins & Williams & Falcao	1978	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Feijo	Martins & Williams & Falcao	1978	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Feijo	Martins & Williams & Falcao	1978	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Rio Branco	Martins & Williams & Falcao	1978	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Rio Branco	Martins & Williams & Falcao	1978	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Rio Branco	Martins & Williams & Falcao	1978	<i>Evandromyia bourrouli</i> (Barretto & Coutinho, 1941)
Rio Branco	Martins & Williams & Falcao	1978	<i>Evandromyia sallesi</i> (Galvao & Coutinho, 1939)
Rio Branco	Martins &	1978	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)

Rio Branco	Williams & Falcao Martins & Williams & Falcao	1978	<i>Evandromyia sericea</i> (Floch & Abonnenc, 1944)
Rio Branco	Martins & Williams & Falcao	1978	<i>Evandromyia walkeri</i> (Newstead, 1914)
Rio Branco	Martins & Williams & Falcao	1978	<i>Lutzomyia flabellata</i> Martins & Silva, 1964
Rio Branco	Martins & Williams & Falcao	1978	<i>Micropygomyia longipennis</i> (Barretto, 1946)
Rio Branco	Martins & Williams & Falcao	1978	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Rio Branco	Martins & Williams & Falcao	1978	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Rio Branco	Martins & Williams & Falcao	1978	<i>Migonemyia migonei</i> (Franca, 1920)
Rio Branco	Martins & Williams & Falcao	1978	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Rio Branco	Martins & Williams & Falcao	1978	<i>Nyssomyia sylvicola</i> (Floch & Abonnenc, 1945)
Rio Branco	Martins & Williams & Falcao	1978	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Rio Branco	Martins & Williams & Falcao	1978	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Rio Branco	Martins & Williams & Falcao	1978	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Rio Branco	Martins & Williams & Falcao	1978	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Rio Branco	Martins & Williams & Falcao	1978	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Rio Branco	Martins & Williams & Falcao	1978	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Rio Branco	Martins & Williams & Falcao	1978	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Rio Branco	Falcao	1978	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Bichromomyia olmeca bicolor</i> (Fairchild & Theodor, 1971)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Evandromyia monstrosa</i> (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)



Cruzeiro do Sul	Arias & Freitas	1982	<i>Evandromyia walkeri</i> (Newstead, 1914)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Cruzeiro do Sul	Arias & Freitas	1982	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Migonemyia migonei</i> (Franca, 1920)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Nyssomyia anduzei</i> (Rozeboom, 1942)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Nyssomyia umbratilis</i> (Ward & Fraiha, 1977)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Pressatia triacantha</i> (Mangabeira, 1942)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psathyromyia abonnenci</i> (Floch & Chassignet, 1947)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psathyromyia aragai</i> (Costa Lima, 1932)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psathyromyia runoides</i> (Fairchild & Hertig, 1953)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psathyromyia scaffi</i> (Damasceno & Arouck, 1956)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Trichophoromyia flochi</i> (Abonnenc & Chassignet, 1948)
Cruzeiro do Sul	Arias & Freitas	1982	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Feijo	Arias & Freitas	1982	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Feijo	Arias & Freitas	1982	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Feijo	Arias & Freitas	1982	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Feijo	Arias & Freitas	1982	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Feijo	Arias & Freitas	1982	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Feijo	Arias & Freitas	1982	<i>Nyssomyia sylvicola</i> (Floch & Abonnenc, 1945)
Feijo	Arias & Freitas	1982	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Feijo	Arias & Freitas	1982	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Feijo	Arias & Freitas	1982	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Feijo	Arias & Freitas	1982	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Rio Branco	Arias & Freitas	1982	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Rio Branco	Arias & Freitas	1982	<i>Bichromomyia olmeca bicolor</i> (Fairchild & Theodor, 1971)
Rio Branco	Arias & Freitas	1982	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Rio Branco	Arias & Freitas	1982	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Rio Branco	Arias & Freitas	1982	<i>Evandromyia bourrouli</i> (Barretto & Coutinho, 1941)
Rio Branco	Arias & Freitas	1982	<i>Evandromyia monstrosa</i> (Floch & Abonnenc, 1944)
Rio Branco	Arias & Freitas	1982	<i>Evandromyia sallesi</i> (Galvao & Coutinho, 1939)
Rio Branco	Arias & Freitas	1982	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Rio Branco	Arias & Freitas	1982	<i>Evandromyia sericea</i> (Floch & Abonnenc, 1944)
Rio Branco	Arias & Freitas	1982	<i>Evandromyia walkeri</i> (Newstead, 1914)
Rio Branco	Arias & Freitas	1982	<i>Lutzomyia flabellata</i> Martins & Silva, 1964
Rio Branco	Arias & Freitas	1982	<i>Lutzomyia gomezi</i> (Nitzulescu, 1931)

Rio Branco	Arias & Freitas	1982	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Rio Branco	Arias & Freitas	1982	<i>Micropygomyia longipennis</i> (Barretto, 1946)
Rio Branco	Arias & Freitas	1982	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Rio Branco	Arias & Freitas	1982	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Rio Branco	Arias & Freitas	1982	<i>Migonemyia migonei</i> (Franca, 1920)
Rio Branco	Arias & Freitas	1982	<i>Nyssomyia anduzei</i> (Rozeboom, 1942)
Rio Branco	Arias & Freitas	1982	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Rio Branco	Arias & Freitas	1982	<i>Nyssomyia richardwardi</i> (Ready & Fraiha, 1981)
Rio Branco	Arias & Freitas	1982	<i>Nyssomyia sylvicola</i> (Floch & Abonnenc, 1945)
Rio Branco	Arias & Freitas	1982	<i>Nyssomyia umbratilis</i> (Ward & Fraiha, 1977)
Rio Branco	Arias & Freitas	1982	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Rio Branco	Arias & Freitas	1982	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Rio Branco	Arias & Freitas	1982	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Rio Branco	Arias & Freitas	1982	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Rio Branco	Arias & Freitas	1982	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia abbonenci</i> (Floch & Chassignet, 1947)
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia aragai</i> (Costa Lima, 1932)
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia campbelli</i> (Damasceno, Causey & Arouck, 1945)
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia lutziana</i> (Costa Lima, 1932)
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia scaffii</i> (Damasceno & Arouck, 1956)
Rio Branco	Arias & Freitas	1982	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Rio Branco	Arias & Freitas	1982	<i>Psychodopygus amazonensis</i> (Root, 1934)
Rio Branco	Arias & Freitas	1982	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Rio Branco	Arias & Freitas	1982	<i>Psychodopygus davisi</i> (Root, 1934)
Rio Branco	Arias & Freitas	1982	<i>Psychodopygus guyanensis</i> (Floch & Abonnenc, 1941)
Rio Branco	Arias & Freitas	1982	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Rio Branco	Arias & Freitas	1982	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Rio Branco	Arias & Freitas	1982	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Rio Branco	Arias & Freitas	1982	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Rio Branco	Arias & Freitas	1982	<i>Viannamyia tuberculata</i> (Mangabeira, 1941)
Rio Branco	Arias et al.	1985	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Rio Branco	Arias et al.	1985	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Rio Branco	Arias et al.	1985	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Rio Branco	Arias et al.	1985	<i>Psychodopygus davisi</i> (Root, 1934)
Acrelandia	Silva Nunes et al.	2008	<i>Evandromyia bacula</i> (Martins, Falcao & Silva, 1965)
Acrelandia	Silva Nunes et al.	2008	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Acrelandia	Silva Nunes et al.	2008	<i>Evandromyia walkeri</i> (Newstead, 1914)
Acrelandia	Silva Nunes et al.	2008	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Acrelandia	Silva Nunes et al.	2008	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Acrelandia	Silva Nunes et al.	2008	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Acrelandia	Silva Nunes et al.	2008	<i>Psychodopygus davisi</i> (Root, 1934)
Acrelandia	Silva Nunes et al.	2008	<i>Sciopemyia servulolimai</i> (Damasceno & Causey, 1945)

Acrelandia	Silva Nunes et al.	2008	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Acrelandia	Silva Nunes et al.	2008	<i>Trichophoromyia brachipyga</i> (Mangabeira, 1942)
Acrelandia	Silva Nunes et al.	2008	<i>Trichophoromyia ubiquitalis</i> (Mangabeira, 1942)
Acrelandia	Silva Nunes et al.	2008	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Bichromomyia olmeca bicolor</i> (Fairchild & Theodor, 1971)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Evandromyia bacula</i> (Martins, Falcao & Silva, 1965)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Evandromyia bourrouli</i> (Barretto & Coutinho, 1941)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Evandromyia infraspinoza</i> (Mangabeira, 1941)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Evandromyia monstrosa</i> (Floch & Abonnenc, 1944)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Evandromyia sericea</i> (Floch & Abonnenc, 1944)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Evandromyia walkeri</i> (Newstead, 1914)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Lutzomyia gomezi</i> (Nitzulescu, 1931)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Micropygomyia peresi</i> (Mangabeira, 1942)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Micropygomyia pilosa</i> (Damasceno & Causey, 1944)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Micropygomyia villedai</i> (Mangabeira, 1942)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Migonemyia migonei</i> (Franca, 1920)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Nyssomyia richardwardi</i> (Ready & Fraiha, 1981)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Nyssomyia shawi</i> (Fraiha, Ward & Ready, 1981)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Nyssomyia umbratilis</i> (Ward & Fraiha, 1977)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Nyssomyia yuilli yuilli</i> (Young & Porter, 1972)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Pintomyia damascenoi</i> (Mangabeira, 1941)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psathyromyia aragaoi</i> (Costa Lima, 1932)

## Rio Branco

Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psathyromyia lutziana</i> (Costa Lima, 1932)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus amazonensis</i> (Root, 1934)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus ayrozai</i> (Barretto & Coutinho, 1940)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus chagasi</i> (Costa Lima, 1941)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus corossoniensis</i> (Le Pont & Pajot, 1978)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus davisi</i> (Root, 1934)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus lainsoni</i> Fraiha & Ward, 1974
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus llanosmartinsi</i> Fraiha & Ward, 1980
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Psychodopygus paraensis</i> (Costa Lima, 1941)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Sciopemyia preclara</i> (Young & Arias, 1984)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Trichophoromyia ininii</i> (Floch & Abonnenc, 1943)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Trichophoromyia ubiquitalis</i> (Mangabeira, 1942)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Trichopygomyia dasypodogeton</i> (Castro, 1939)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Trichopygomyia elegans</i> (Martins, Llanos & Silva, 1976)
Bujari/ Xapuri/ Rio Branco	Azevedo et al.	2008	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Cruzeiro do Sul	Castellon	2009	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Cruzeiro do Sul	Castellon	2009	<i>Bichromomyia olmeca bicolor</i> (Fairchild & Theodor, 1971)
Cruzeiro do Sul	Castellon	2009	<i>Evandromyia evandroi</i> (Costa Lima & Antunes, 1936)
Cruzeiro do Sul	Castellon	2009	<i>Evandromyia monstrosa</i> (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Castellon	2009	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Castellon	2009	<i>Evandromyia tarapacaensis</i> (Le Pont, Torrez-Espejo & Galati, 1997)
Cruzeiro do Sul	Castellon	2009	<i>Evandromyia walkeri</i> (Newstead, 1914)
Cruzeiro do Sul	Castellon	2009	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Cruzeiro do Sul	Castellon	2009	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Cruzeiro do Sul	Castellon	2009	<i>Nyssomyia anduzei</i> (Rozeboom, 1942)

Cruzeiro do Sul	Castellon	2009	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Cruzeiro do Sul	Castellon	2009	<i>Nyssomyia umbratilis</i> (Ward & Fraiha, 1977)
Cruzeiro do Sul	Castellon	2009	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Cruzeiro do Sul	Castellon	2009	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Cruzeiro do Sul	Castellon	2009	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Cruzeiro do Sul	Castellon	2009	<i>Pressatia triacantha</i> (Mangabeira, 1942)
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia abonnenci</i> (Floch & Chassignet, 1947)
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia aragaoi</i> (Costa Lima, 1932)
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia campbelli</i> (Damasceno, Causey & Arouck, 1945)
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia dendrophylla</i> Mangabeira, 1942
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia runoides</i> (Fairchild & Hertig, 1953)
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia scaffii</i> (Damasceno & Arouck, 1956)
Cruzeiro do Sul	Castellon	2009	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Cruzeiro do Sul	Castellon	2009	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Cruzeiro do Sul	Castellon	2009	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Cruzeiro do Sul	Castellon	2009	<i>Trichophoromyia flochi</i> (Abonnenc & Chassignet, 1948)
Cruzeiro do Sul	Castellon	2009	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Feijo	Castellon	2009	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Feijo	Castellon	2009	<i>Evandromyia walkeri</i> (Newstead, 1914)
Feijo	Castellon	2009	<i>Lutzomyia gomezi</i> (Nitzulescu, 1931)
Feijo	Castellon	2009	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Feijo	Castellon	2009	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Feijo	Castellon	2009	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Feijo	Castellon	2009	<i>Nyssomyia sylvicola</i> (Floch & Abonnenc, 1945)
Feijo	Castellon	2009	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Feijo	Castellon	2009	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Feijo	Castellon	2009	<i>Psathyromyia dendrophylla</i> Mangabeira, 1942
Feijo	Castellon	2009	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Rio Branco	Castellon	2009	<i>Evandromyia bourrouli</i> (Barretto & Coutinho, 1941)
Rio Branco	Castellon	2009	<i>Evandromyia sallesi</i> (Galvao & Coutinho, 1939)
Rio Branco	Castellon	2009	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Rio Branco	Castellon	2009	<i>Evandromyia sericea</i> (Floch & Abonnenc, 1944)
Rio Branco	Castellon	2009	<i>Evandromyia walkeri</i> (Newstead, 1914)
Rio Branco	Castellon	2009	<i>Lutzomyia flabellata</i> Martins & Silva, 1964
Rio Branco	Castellon	2009	<i>Lutzomyia gomezi</i> (Nitzulescu, 1931)
Rio Branco	Castellon	2009	<i>Micropygomyia longipennis</i> (Barretto, 1946)
Rio Branco	Castellon	2009	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Rio Branco	Castellon	2009	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Rio Branco	Castellon	2009	<i>Nyssomyia anduzei</i> (Rozeboom, 1942)
Rio Branco	Castellon	2009	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Rio Branco	Castellon	2009	<i>Nyssomyia richardwardi</i> (Ready & Fraiha, 1981)
Rio Branco	Castellon	2009	<i>Nyssomyia sylvicola</i> (Floch & Abonnenc, 1945)
Rio Branco	Castellon	2009	<i>Nyssomyia umbratilis</i> (Ward & Fraiha, 1977)

Rio Branco	Castellon	2009	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Rio Branco	Castellon	2009	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Rio Branco	Castellon	2009	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Rio Branco	Castellon	2009	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Rio Branco	Castellon	2009	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Rio Branco	Castellon	2009	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Rio Branco	Castellon	2009	<i>Psathyromyia lutziana</i> (Costa Lima, 1932)
Rio Branco	Castellon	2009	<i>Psathyromyia scaffii</i> (Damasceno & Arouck, 1956)
Rio Branco	Castellon	2009	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Rio Branco	Castellon	2009	<i>Psychodopygus amazonensis</i> (Root, 1934)
Rio Branco	Castellon	2009	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Rio Branco	Castellon	2009	<i>Psychodopygus davisii</i> (Root, 1934)
Rio Branco	Castellon	2009	<i>Psychodopygus geniculatus</i> (Mangabeira, 1941)
Rio Branco	Castellon	2009	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Rio Branco	Castellon	2009	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Rio Branco	Castellon	2009	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Rio Branco	Castellon	2009	<i>Viannamyia tuberculata</i> (Mangabeira, 1941)
Assis Brasil	Teles et al.	2013	<i>Evandromyia andersoni</i> (Le Pont & Desjeux, 1988)
Assis Brasil	Teles et al.	2013	<i>Evandromyia tarapacaensis</i> (Le Pont, Torrez-Espejo & Galati, 1997)
Assis Brasil	Teles et al.	2013	<i>Evandromyia termitophila</i> (Martins, Falcao & Silva, 1964)
Assis Brasil	Teles et al.	2013	<i>Evandromyia williamsi</i> (Damasceno, Causey & Arouck, 1945)
Assis Brasil	Teles et al.	2013	<i>Evandromyia wilsoni</i> (Damasceno & Causey, 1945)
Assis Brasil	Teles et al.	2013	<i>Bichromomyia reducta</i> (Felicangeli, Ramirez Perez & Ramirez, 1988)
Assis Brasil	Teles et al.	2013	<i>Pintomyia christenseni</i> (Young & Duncan, 1994)
Assis Brasil	Teles et al.	2013	<i>Pintomyia naiffi</i> (Freitas & Oliveira, 2013)
Assis Brasil	Teles et al.	2013	<i>Psathyromyia abunaensis</i> (Martins, Falcao & Silva, 1965)
Assis Brasil	Teles et al.	2013	<i>Psathyromyia Braziliensis</i> (Costa Lima, 1932)
Assis Brasil	Teles et al.	2013	<i>Psathyromyia dreisbachi</i> (Causey & Damasceno, 1945)
Assis Brasil	Teles et al.	2013	<i>Psychodopygus bispinosus</i> (Fairchild & Hertig, 1951)
Assis Brasil	Teles et al.	2013	<i>Psychodopygus yucumensis</i> (Le Pont, Caillard, Tibayrenc & Desjeux, 1986)
Assis Brasil	Teles et al.	2013	<i>Trichophoromyia melloi</i> (Causey & Damasceno, 1945)
Rio Branco	Araujo-Pereira et al.	2014	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Rio Branco	Araujo-Pereira et al.	2014	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Rio Branco	Araujo-Pereira et al.	2014	<i>Evandromyia bacula</i> (Martins, Falcao & Silva, 1965)
Rio Branco	Araujo-Pereira et al.	2014	<i>Evandromyia begoniae</i> (Ortiz & Torrez, 1975)
Rio Branco	Araujo-Pereira et al.	2014	<i>Evandromyia bourrouli</i> (Barretto & Coutinho, 1941)
Rio Branco	Araujo-Pereira et al.	2014	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Rio Branco	Araujo-Pereira et al.	2014	<i>Evandromyia walkeri</i> (Newstead, 1914)

Rio Branco	Araujo-Pereira et al.	2014	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Rio Branco	Araujo-Pereira et al.	2014	<i>Micropygomyia acanthopharynx</i> (Martins, Falcao & Silva, 1962)
Rio Branco	Araujo-Pereira et al.	2014	<i>Micropygomyia pusilla</i> (Dias, Martins, Falco & Silva, 1986)
Rio Branco	Araujo-Pereira et al.	2014	<i>Migonemyia migonei</i> (Franca, 1920)
Rio Branco	Araujo-Pereira et al.	2014	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Rio Branco	Araujo-Pereira et al.	2014	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Rio Branco	Araujo-Pereira et al.	2014	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Rio Branco	Araujo-Pereira et al.	2014	<i>Pintomyia odax</i> (Fairchild & Hertig, 1961)
Rio Branco	Araujo-Pereira et al.	2014	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Rio Branco	Araujo-Pereira et al.	2014	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Rio Branco	Araujo-Pereira et al.	2014	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Rio Branco	Araujo-Pereira et al.	2014	<i>Pressatia duncanai</i> (Le Pont, Martinez, Torrez-Espejo & Dujardin, 1998)
Rio Branco	Araujo-Pereira et al.	2014	<i>Psychodopygus paraensis</i> (Costa Lima, 1941)
Rio Branco	Araujo-Pereira et al.	2014	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Rio Branco	Araujo-Pereira et al.	2014	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Assis Brasil	Oliveira et al.	2015	<i>Trichophoromyia ruifreitasi</i> Oliveira, Teles, Medeiros, Camargo & Pessoa 2015
Assis Brasil	Teles et al.	2016	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Assis Brasil	Teles et al.	2016	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Assis Brasil	Teles et al.	2016	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Assis Brasil	Teles et al.	2016	<i>Evandromyia andersoni</i> (Le Pont & Desjeux, 1988)
Assis Brasil	Teles et al.	2016	<i>Evandromyia bacula</i> (Martins, Falcao & Silva, 1965)
Assis Brasil	Teles et al.	2016	<i>Evandromyia georgii</i> (Freitas & Barrett, 2002)
Assis Brasil	Teles et al.	2016	<i>Evandromyia monstrosa</i> (Floch & Abonnenc, 1944)
Assis Brasil	Teles et al.	2016	<i>Evandromyia sallesi</i> (Galvao & Coutinho, 1939)
Assis Brasil	Teles et al.	2016	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Assis Brasil	Teles et al.	2016	<i>Evandromyia tarapacaensis</i> (Le Pont, Torrez-Espejo & Galati, 1997)
Assis Brasil	Teles et al.	2016	<i>Evandromyia termitophila</i> (Martins, Falcao & Silva, 1964)
Assis Brasil	Teles et al.	2016	<i>Evandromyia walkeri</i> (Newstead, 1914)
Assis Brasil	Teles et al.	2016	<i>Evandromyia williamsi</i> (Damasceno, Causey & Arouck, 1945)
Assis Brasil	Teles et al.	2016	<i>Evandromyia wilsoni</i> (Damasceno & Causey, 1945)
Assis Brasil	Teles et al.	2016	<i>Lutzomyia evangelistai</i> Martins & Fraiha, 1971
Assis Brasil	Teles et al.	2016	<i>Lutzomyia flabellata</i> Martins & Silva, 1964
Assis Brasil	Teles et al.	2016	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Assis Brasil	Teles et al.	2016	<i>Micropygomyia longipennis</i> (Barretto, 1946)
Assis Brasil	Teles et al.	2016	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Assis Brasil	Teles et al.	2016	<i>Micropygomyia peresi</i> (Mangabeira, 1942)

Assis Brasil	Teles et al.	2016	<i>Micropygomyia vellei</i> (Mangabeira, 1942)
Assis Brasil	Teles et al.	2016	<i>Migonemyia migonei</i> (Franca, 1920)
Assis Brasil	Teles et al.	2016	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Assis Brasil	Teles et al.	2016	<i>Bichromomyia reducta</i> (Feliciangeli, Ramirez Perez & Ramirez, 1988)
Assis Brasil	Teles et al.	2016	<i>Nyssomyia richardwardi</i> (Ready & Fraiha, 1981)
Assis Brasil	Teles et al.	2016	<i>Nyssomyia shawi</i> (Fraiha, Ward & Ready, 1981)
Assis Brasil	Teles et al.	2016	<i>Nyssomyia umbratilis</i> (Ward & Fraiha, 1977)
Assis Brasil	Teles et al.	2016	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Assis Brasil	Teles et al.	2016	<i>Nyssomyia yuilli yuilli</i> (Young & Porter, 1972)
Assis Brasil	Teles et al.	2016	<i>Pintomyia christenseni</i> (Young & Duncan, 1994)
Assis Brasil	Teles et al.	2016	<i>Pintomyia naiffi</i> (Freitas & Oliveira, 2013)
Assis Brasil	Teles et al.	2016	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Assis Brasil	Teles et al.	2016	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Assis Brasil	Teles et al.	2016	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Assis Brasil	Teles et al.	2016	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Assis Brasil	Teles et al.	2016	<i>Pressatia triacantha</i> (Mangabeira, 1942)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia abbonenci</i> (Floch & Chassignet, 1947)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia abunaensis</i> (Martins, Falcao & Silva, 1965)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia aragaoi</i> (Costa Lima, 1932)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia Braziliensis</i> (Costa Lima, 1932)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia campbelli</i> (Damasceno, Causey & Arouck, 1945)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Assis Brasil	Teles et al.	2016	<i>Psathyromyia dreisbachi</i> (Causey & Damasceno, 1945)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia lutziana</i> (Costa Lima, 1932)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Assis Brasil	Teles et al.	2016	<i>Psathyromyia shannoni</i> (Dyar, 1929)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus amazonensis</i> (Root, 1934)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus ayrozai</i> (Barretto & Coutinho, 1940)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus bispinosus</i> (Fairchild & Hertig, 1951)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus complexus</i> (Mangabeira, 1941)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus davisii</i> (Root, 1934)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus geniculatus</i> (Mangabeira, 1941)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus lainsoni</i> Fraiha & Ward, 1974
Assis Brasil	Teles et al.	2016	<i>Psychodopygus llanosmartinsi</i> Fraiha & Ward, 1980
Assis Brasil	Teles et al.	2016	<i>Psychodopygus paraensis</i> (Costa Lima, 1941)
Assis Brasil	Teles et al.	2016	<i>Psychodopygus yucumensis</i> (Le Pont, Caillard, Tibayrenc & Desjeux, 1986)
Assis Brasil	Teles et al.	2016	<i>Sciopemyia preclara</i> (Young & Arias, 1984)
Assis Brasil	Teles et al.	2016	<i>Sciopemyia servulolimai</i> (Damasceno & Causey, 1945)
Assis Brasil	Teles et al.	2016	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Assis Brasil	Teles et al.	2016	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Assis Brasil	Teles et al.	2016	<i>Trichophoromyia melloi</i> (Causey & Damasceno, 1945)



Assis Brasil	Teles et al.	2016	<i>Trichophoromyia ruifreitasi</i> Oliveira, Teles, Medeiros, Camargo & Pessoa 2015
Assis Brasil	Teles et al.	2016	<i>Trichophoromyia ubiquitalis</i> (Mangabeira, 1942)
Assis Brasil	Teles et al.	2016	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Xapuri	Sabio et al.	2016	<i>Lutzomyia pifanoi</i> (Ortiz, 1972)
Assis Brasil	Borges et al.	2017	<i>Lutzomyia longipalpis</i> (Lutz & Neiva, 1912)
Xapuri	Brilhante & Sabio & Galati	2017	<i>Psathyromyia elizabethdorvalae</i> Brilhante, Sabio & Galati, 2016
Xapuri	Brilhante et al.	2017	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Xapuri	Brilhante et al.	2017	<i>Evandromyia bacula</i> (Martins, Falcao & Silva, 1965)
Xapuri	Brilhante et al.	2017	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Xapuri	Brilhante et al.	2017	<i>Evandromyia tarapacaensis</i> (Le Pont, Torrez-Espejo & Galati, 1997)
Xapuri	Brilhante et al.	2017	<i>Evandromyia termitophila</i> (Martins, Falcao & Silva, 1964)
Xapuri	Brilhante et al.	2017	<i>Lutzomyia evangelistai</i> Martins & Fraiha, 1971
Xapuri	Brilhante et al.	2017	<i>Lutzomyia marinkellei</i> Young, 1971
Xapuri	Brilhante et al.	2017	<i>Lutzomyia pifanoi</i> (Ortiz, 1972)
Xapuri	Brilhante et al.	2017	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Xapuri	Brilhante et al.	2017	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Xapuri	Brilhante et al.	2017	<i>Migonemyia migonei</i> (Franca, 1920)
Xapuri	Brilhante et al.	2017	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Xapuri	Brilhante et al.	2017	<i>Nyssomyia fraihai</i> (Martins, Falcao & Silva, 1979)
Xapuri	Brilhante et al.	2017	<i>Nyssomyia richardwardi</i> (Ready & Fraiha, 1981)
Xapuri	Brilhante et al.	2017	<i>Nyssomyia shawi</i> (Fraiha, Ward & Ready, 1981)
Xapuri	Brilhante et al.	2017	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Xapuri	Brilhante et al.	2017	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Xapuri	Brilhante et al.	2017	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Xapuri	Brilhante et al.	2017	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Xapuri	Brilhante et al.	2017	<i>Psathyromyia aragaoi</i> (Costa Lima, 1932)
Xapuri	Brilhante et al.	2017	<i>Psathyromyia bigeniculata</i> (Floch & Abonnenc, 1941)
Xapuri	Brilhante et al.	2017	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Xapuri	Brilhante et al.	2017	<i>Psychodopygus amazonensis</i> (Root, 1934)
Xapuri	Brilhante et al.	2017	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Xapuri	Brilhante et al.	2017	<i>Psychodopygus clautrei</i> (Abonnenc, Leger & Fauran, 1979)
Xapuri	Brilhante et al.	2017	<i>Psychodopygus davisi</i> (Root, 1934)
Xapuri	Brilhante et al.	2017	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Xapuri	Brilhante et al.	2017	<i>Psychodopygus lainsoni</i> Fraiha & Ward, 1974
Xapuri	Brilhante et al.	2017	<i>Psychodopygus llanosmartinsi</i> Fraiha & Ward, 1980
Xapuri	Brilhante et al.	2017	<i>Psychodopygus paraensis</i> (Costa Lima, 1941)
Xapuri	Brilhante et al.	2017	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Xapuri	Brilhante et al.	2017	<i>Trichophoromyia octavioi</i> (Vargas, 1949)
Xapuri	Brilhante et al.	2017	<i>Trichophoromyia ruifreitasi</i> Oliveira, Teles, Medeiros, Camargo & Pessoa 2015
Xapuri	Brilhante et al.	2017	<i>Trichophoromyia ubiquitalis</i> (Mangabeira, 1942)
Assis Brasil	Ortiz et al.	2018	<i>Lutzomyia gonzaloi</i> Ogosuku Canales & Perez, 1997
Assis Brasil	Ortiz et al.	2018	<i>Lutzomyia kirigetiensis</i> Galati & Caceres, 1992
Assis Brasil	Ortiz et al.	2018	<i>Lutzomyia munaypata</i> Ogosuku, Chevarria, Porras &

Perez, 1999

Rio Branco	Avila et al.	2018	<i>Sciopemyia vattierae</i> (Le Pont & Desjeux, 1992)
Rio Branco	Avila et al.	2018.1	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Rio Branco	Avila et al.	2018.1	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Rio Branco	Avila et al.	2018.1	<i>Brumptomyia brumpti</i> (Larrousse, 1920)
Rio Branco	Avila et al.	2018.1	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Rio Branco	Avila et al.	2018.1	<i>Evandromyia andersoni</i> (Le Pont & Desjeux, 1988)
Rio Branco	Avila et al.	2018.1	<i>Evandromyia infraspinoza</i> (Mangabeira, 1941)
Rio Branco	Avila et al.	2018.1	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Rio Branco	Avila et al.	2018.1	<i>Evandromyia walkerii</i> (Newstead, 1914)
Rio Branco	Avila et al.	2018.1	<i>Lutzomyia evangelistai</i> Martins & Fraiha, 1971
Rio Branco	Avila et al.	2018.1	<i>Lutzomyia gomezi</i> (Nitzulescu, 1931)
Rio Branco	Avila et al.	2018.1	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Rio Branco	Avila et al.	2018.1	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Rio Branco	Avila et al.	2018.1	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Rio Branco	Avila et al.	2018.1	<i>Migonemyia migonei</i> (Franca, 1920)
Rio Branco	Avila et al.	2018.1	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Rio Branco	Avila et al.	2018.1	<i>Nyssomyia shawi</i> (Fraiha, Ward & Ready, 1981)
Rio Branco	Avila et al.	2018.1	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Rio Branco	Avila et al.	2018.1	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Rio Branco	Avila et al.	2018.1	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Rio Branco	Avila et al.	2018.1	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Rio Branco	Avila et al.	2018.1	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Rio Branco	Avila et al.	2018.1	<i>Psathyromyia abbonenci</i> (Floch & Chassignet, 1947)
Rio Branco	Avila et al.	2018.1	<i>Psathyromyia abunaensis</i> (Martins, Falcao & Silva, 1965)
Rio Branco	Avila et al.	2018.1	<i>Psathyromyia aragaoi</i> (Costa Lima, 1932)
Rio Branco	Avila et al.	2018.1	<i>Psathyromyia bigeniculata</i> (Floch & Abonnenc, 1941)
Rio Branco	Avila et al.	2018.1	<i>Psychodopygus amazonensis</i> (Root, 1934)
Rio Branco	Avila et al.	2018.1	<i>Psychodopygus ayrozai</i> (Barretto & Coutinho, 1940)
Rio Branco	Avila et al.	2018.1	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Rio Branco	Avila et al.	2018.1	<i>Psychodopygus clautrei</i> (Abonnenc, Leger & Fauran, 1979)
Rio Branco	Avila et al.	2018.1	<i>Psychodopygus davisi</i> (Root, 1934)
Rio Branco	Avila et al.	2018.1	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Rio Branco	Avila et al.	2018.1	<i>Psychodopygus llanosmartinsi</i> Fraiha & Ward, 1980
Rio Branco	Avila et al.	2018.1	<i>Sciopemyia servulolimai</i> (Damasceno & Causey, 1945)
Rio Branco	Avila et al.	2018.1	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Rio Branco	Avila et al.	2018.1	<i>Trichophoromyia brachipyga</i> (Mangabeira, 1942)
Rio Branco	Avila et al.	2018.1	<i>Trichophoromyia ubiquitalis</i> (Mangabeira, 1942)
Assis Brasil	Ortiz et al.	2020	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Assis Brasil	Ortiz et al.	2020	<i>Bichromomyia reducta</i> (Felicangeli, Ramirez Perez & Ramirez, 1988)
Assis Brasil	Ortiz et al.	2020	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Assis Brasil	Ortiz et al.	2020	<i>Brumptomyia brumpti</i> (Larrousse, 1920)
Assis Brasil	Ortiz et al.	2020	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Assis Brasil	Ortiz et al.	2020	<i>Evandromyia andersoni</i> (Le Pont & Desjeux, 1988)

Assis Brasil	Ortiz et al.	2020	<i>Evandromyia bacula</i> (Martins, Falcao & Silva, 1965)
Assis Brasil	Ortiz et al.	2020	<i>Evandromyia inpai</i> (Young & Arias, 1977)
Assis Brasil	Ortiz et al.	2020	<i>Evandromyia sallesi</i> (Galvao & Coutinho, 1939)
Assis Brasil	Ortiz et al.	2020	<i>Evandromyia saulensis</i> (Floch & Abonnenc, 1944)
Assis Brasil	Ortiz et al.	2020	<i>Evandromyia sipani</i> (Fernandez, Carbajal, Alexander & Need, 1994)
Assis Brasil	Ortiz et al.	2020	<i>Evandromyia tarapacaensis</i> (Le Pont, Torrez-Espejo & Galati, 1997)
Assis Brasil	Ortiz et al.	2020	<i>Lutzomyia evangelistai</i> Martins & Fraiha, 1971
Assis Brasil	Ortiz et al.	2020	<i>Lutzomyia flabellata</i> Martins & Silva, 1964
Assis Brasil	Ortiz et al.	2020	<i>Lutzomyia gonzaloi</i> Ogosuku Canales & Perez, 1997
Assis Brasil	Ortiz et al.	2020	<i>Lutzomyia kirigetiensis</i> Galati & Caceres, 1992
Assis Brasil	Ortiz et al.	2020	<i>Lutzomyia marinkellei</i> Young, 1971
Assis Brasil	Ortiz et al.	2020	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Assis Brasil	Ortiz et al.	2020	<i>Micropygomyia micropyga</i> (Mangabeira, 1942)
Assis Brasil	Ortiz et al.	2020	<i>Micropygomyia oswaldoi</i> (Mangabeira, 1942)
Assis Brasil	Ortiz et al.	2020	<i>Micropygomyia trinidadensis</i> (Newstead, 1922)
Assis Brasil	Ortiz et al.	2020	<i>Migonemyia migonei</i> (Franca, 1920)
Assis Brasil	Ortiz et al.	2020	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Assis Brasil	Ortiz et al.	2020	<i>Nyssomyia shawi</i> (Fraiha, Ward & Ready, 1981)
Assis Brasil	Ortiz et al.	2020	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Assis Brasil	Ortiz et al.	2020	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Assis Brasil	Ortiz et al.	2020	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Assis Brasil	Ortiz et al.	2020	<i>Pressatia calcarata</i> (Martins & Silva, 1964)
Assis Brasil	Ortiz et al.	2020	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Assis Brasil	Ortiz et al.	2020	<i>Psathyromyia aragai</i> (Costa Lima, 1932)
Assis Brasil	Ortiz et al.	2020	<i>Psathyromyia bigeniculata</i> (Floch & Abonnenc, 1941)
Assis Brasil	Ortiz et al.	2020	<i>Psathyromyia dendrophylla</i> Mangabeira, 1942
Assis Brasil	Ortiz et al.	2020	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Assis Brasil	Ortiz et al.	2020	<i>Psychodopygus davis</i> (Root, 1934)
Assis Brasil	Ortiz et al.	2020	<i>Sciopemyia servulolimai</i> (Damasceno & Causey, 1945)
Assis Brasil	Ortiz et al.	2020	<i>Sciopemyia vattierae</i> (Le Pont & Desjeux, 1992)
Assis Brasil	Ortiz et al.	2020	<i>Trichophoromyia auraensis</i> (Mangabeira, 1942)
Assis Brasil	Ortiz et al.	2020	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Brasileia	Araujo-Pereira et al.	2020	<i>Lutzomyia flabellata</i> Martins & Silva, 1964
Brasileia	Araujo-Pereira et al.	2020	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Brasileia	Araujo-Pereira et al.	2020	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Brasileia	Araujo-Pereira et al.	2020	<i>Nyssomyia shawi</i> (Fraiha, Ward & Ready, 1981)
Brasileia	Araujo-Pereira et al.	2020	<i>Nyssomyia umbratilis</i> (Ward & Fraiha, 1977)
Brasileia	Araujo-Pereira et al.	2020	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Brasileia	Araujo-Pereira et al.	2020	<i>Nyssomyia yuilli yuilli</i> (Young & Porter, 1972)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus amazonensis</i> (Root, 1934)

Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus bispinosus</i> (Fairchild & Hertig, 1951)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus chagasi</i> (Costa Lima, 1941)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus claustrai</i> (Abonnenc, Leger & Fauran, 1979)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus complexus</i> (Mangabeira, 1941)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus davisi</i> (Root, 1934)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus dorlinsis</i> (Le Pont & Desjeux, 1982)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus geniculatus</i> (Mangabeira, 1941)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus lainsoni</i> Fraiha & Ward, 1974
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus llanosmartinsi</i> Fraiha & Ward, 1980
Brasileia	Araujo-Pereira et al.	2020	<i>Psychodopygus paraensis</i> (Costa Lima, 1941)
Xapuri	Brilhante et al.	2021	<i>Bichromomyia flaviscutellata</i> (Mangabeira, 1942)
Xapuri	Brilhante et al.	2021	<i>Brumptomyia avellari</i> (Costa Lima, 1932)
Xapuri	Brilhante et al.	2021	<i>Brumptomyia brumpti</i> (Larrousse, 1920)
Xapuri	Brilhante et al.	2021	<i>Brumptomyia pentacantha</i> (Barretto, 1947)
Xapuri	Brilhante et al.	2021	<i>Evandromyia andersoni</i> (Le Pont & Desjeux, 1988)
Xapuri	Brilhante et al.	2021	<i>Evandromyia bacula</i> (Martins, Falcao & Silva, 1965)
Xapuri	Brilhante et al.	2021	<i>Evandromyia begonae</i> (Ortiz & Torrez, 1975)
Xapuri	Brilhante et al.	2021	<i>Evandromyia infraspinoza</i> (Mangabeira, 1941)
Xapuri	Brilhante et al.	2021	<i>Evandromyia tarapacaensis</i> (Le Pont, Torrez-Espejo & Galati, 1997)
Xapuri	Brilhante et al.	2021	<i>Evandromyia termitophila</i> (Martins, Falcao & Silva, 1964)
Xapuri	Brilhante et al.	2021	<i>Evandromyia walkeri</i> (Newstead, 1914)
Xapuri	Brilhante et al.	2021	<i>Lutzomyia evangelistai</i> Martins & Fraiha, 1971
Xapuri	Brilhante et al.	2021	<i>Lutzomyia pifanoi</i> (Ortiz, 1972)
Xapuri	Brilhante et al.	2021	<i>Lutzomyia sherlocki</i> Martins, Silva & Falcao, 1971
Xapuri	Brilhante et al.	2021	<i>Migonemyia migonei</i> (Franca, 1920)
Xapuri	Brilhante et al.	2021	<i>Nyssomyia antunesi</i> (Coutinho, 1939)
Xapuri	Brilhante et al.	2021	<i>Nyssomyia fraihai</i> (Martins, Falcao & Silva, 1979)
Xapuri	Brilhante et al.	2021	<i>Nyssomyia richardwardi</i> (Ready & Fraiha, 1981)
Xapuri	Brilhante et al.	2021	<i>Nyssomyia shawi</i> (Fraiha, Ward & Ready, 1981)
Xapuri	Brilhante et al.	2021	<i>Nyssomyia whitmani</i> (Antunes & Coutinho, 1939)
Xapuri	Brilhante et al.	2021	<i>Pintomyia nevesi</i> (Damasceno & Arouck, 1956)
Xapuri	Brilhante et al.	2021	<i>Pintomyia serrana</i> (Damasceno & Arouck, 1949)
Xapuri	Brilhante et al.	2021	<i>Pressatia choti</i> (Floch & Abonnenc, 1941)
Xapuri	Brilhante et al.	2021	<i>Pressatia triacantha</i> (Mangabeira, 1942)
Xapuri	Brilhante et al.	2021	<i>Psathyromyia abbonenci</i> (Floch & Chassignet, 1947)
Xapuri	Brilhante et al.	2021	<i>Psathyromyia aclydifera</i> (Faichild & Hertig, 1952)
Xapuri	Brilhante et al.	2021	<i>Psathyromyia aragaoi</i> (Costa Lima, 1932)

Xapuri	Brilhante et al.	2021	<i>Psathyromyia bigeniculata</i> (Floch & Abonnenc, 1941)
Xapuri	Brilhante et al.	2021	<i>Psathyromyia campbelli</i> (Damasceno, Causey & Arouck, 1945)
Xapuri	Brilhante et al.	2021	<i>Psathyromyia coutinhoi</i> (Mangabeira, 1942)
Xapuri	Brilhante et al.	2021	<i>Psathyromyia dendrophyla</i> Mangabeira, 1942
Xapuri	Brilhante et al.	2021	<i>Psathyromyia elizabethdorvalae</i> Brilhante, Sabio & Galati, 2016
Xapuri	Brilhante et al.	2021	<i>Psathyromyia pradobarrientosi</i> (Le Pont, Matias, Martinez & Dujardin, 2004)
Xapuri	Brilhante et al.	2021	<i>Psathyromyia punctigeniculata</i> (Floch & Abonnenc, 1944)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus amazonensis</i> (Root, 1934)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus bispinosus</i> (Fairchild & Hertig, 1951)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus carrerai carrerai</i> (Barretto, 1946)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus chagasi</i> (Costa Lima, 1941)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus clautrei</i> (Abonnenc, Leger & Fauran, 1979)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus davisi</i> (Root, 1934)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus francoisleponti</i> Zapata, Depaquit & Leon 2012
Xapuri	Brilhante et al.	2021	<i>Psychodopygus hirsutus hirsutus</i> (Mangabeira, 1942)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus lainsoni</i> Fraiha & Ward, 1974
Xapuri	Brilhante et al.	2021	<i>Psychodopygus llanosmartinsi</i> Fraiha & Ward, 1980
Xapuri	Brilhante et al.	2021	<i>Psychodopygus paraensis</i> (Costa Lima, 1941)
Xapuri	Brilhante et al.	2021	<i>Psychodopygus yucumensis</i> (Le Pont, Caillard, Tibayrenc & Desjeux, 1986)
Xapuri	Brilhante et al.	2021	<i>Sciopemyia servulolimai</i> (Damasceno & Causey, 1945)
Xapuri	Brilhante et al.	2021	<i>Sciopemyia sordellii</i> (Shannon & Del Ponte, 1927)
Xapuri	Brilhante et al.	2021	<i>Trichophoromyia octavioi</i> (Vargas, 1949)
Xapuri	Brilhante et al.	2021	<i>Trichophoromyia omagua</i> (Martins, Llanos & Silva, 1976)
Xapuri	Brilhante et al.	2021	<i>Trichophoromyia</i> spp.
Xapuri	Brilhante et al.	2021	<i>Trichophoromyia ubiquitalis</i> (Mangabeira, 1942)
Xapuri	Brilhante et al.	2021	<i>Trichopygomyia dasypodogeton</i> (Castro, 1939)
Xapuri	Brilhante et al.	2021	<i>Viannamyia furcata</i> (Mangabeira, 1941)
Rio Branco	Brilhante et al.	2022	<i>Trichophoromyia octavioi</i> (Vargas, 1949)
Rio Branco	Brilhante et al.	2022	<i>Trichophoromyia ruifreitasi</i> Oliveira, Teles, Medeiros, Camargo & Pessoa 2015

Table 3. Chronological records of Phlebotominae sandfly species by author and municipality.

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