

Taxonomy and systematics

## Checklist of the caddisflies (Insecta: Trichoptera) from Oaxaca, Mexico

### *Listado de tricópteros (Insecta: Trichoptera) de Oaxaca, México*

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### Abstract

An updated checklist of the caddisflies from the State of Oaxaca, Mexico is presented, based primarily on a bibliographic review. Fourteen families, 44 genera and 216 species of caddisflies have been recorded, 38 (17.51%) of which are endemic, and 9 species are recorded for the first time from Oaxaca. For each species, we describe its geographic distribution, provide references with distribution records, and highlight those that are endemic to Oaxaca and Mexico. Although there has been a significant increase in taxonomic work on Mexican caddisflies, it is still necessary to continue studying the systematics, ecology, and biogeography of Trichoptera from Oaxaca, especially in poorly explored regions.

**Keywords:** Species richness; Faunistic inventory; Geographic distribution; Endemism

### Resumen

Se presenta una lista actualizada de los tricópteros del estado de Oaxaca, México, basada principalmente en una revisión bibliográfica. Se registraron 14 familias, 44 géneros y 216 especies de tricópteros, de las cuales 38 (17.51%) son endémicas y 9 especies se registran por primera vez para Oaxaca. Para cada especie describimos su distribución geográfica, proporcionamos referencias con registros de distribución y destacamos aquellas que son endémicas de

Oaxaca y México. Aunque ha habido un incremento significativo en los trabajos taxonómicos sobre los tricópteros mexicanos, aún es necesario continuar estudiando la sistemática, ecología y biogeografía de los Trichoptera de Oaxaca, especialmente en las regiones poco exploradas.

*Palabras clave:* Riqueza específica; Inventario faunístico; Distribución geográfica; Endemismo

## Introduction

Trichoptera is the most diverse order of water-dependent insects. The caddisflies are widely distributed around the world and currently there are about 16,300 known species (Morse, 2019), of which 602 are found in Mexico. These holometabolous insects inhabit a wide diversity of aquatic microhabitats becoming key components of food web, as well as excellent indicators of water quality (Springer, 2010).

The State of Oaxaca is located in southeastern Mexico (Fig. 1) and covers an area of approximately 95,364 km<sup>2</sup>, equivalent to 4.8% of the country's total area (García-Mendoza et al., 2004; INEGI, 2016). Based on the biogeographic regionalization proposed by Morrone et al. (2017), Oaxaca is part of the Balsas Basin, Sierra Madre del Sur, Veracruzian, Pacific Lowlands and Chiapas Highlands provinces (Fig. 1), belonging to the Mexican Transition Zone and the Neotropical region. This state has a vast mosaic of climates, ranging from semi-warm humid and sub-humid to semi-cold and temperate humid in the higher elevations (Trejo, 2004), associated with a wide range of temperatures and a great variety of vegetation types, among which the high evergreen forest and the montane cloud forest stand out (Arriaga et al., 2000).

Until this work, Oaxaca ranked third in caddisfly biodiversity in the country with 161 species, after Chiapas (188) and Veracruz (180), but its fauna has long remained unknown. The first inventory conducted by Bueno-Soria (2010a) reported 102 species. However, the number of known Trichoptera species has increased considerably

since then due to: 1) a study at Santa Catarina Lachatao (Razo-Gonzalez, 2018), 2) a literature compilation of species recorded from Oaxaca, 3) and more recently, to a study conducted in the Sierra de Juárez (Razo-Gonzalez et al., 2023).

Since the publication of Bueno-Soria (2010a), several new distribution records and descriptions of new species have been published, making a new list necessary as a starting point for future studies on Trichoptera diversity from Oaxaca, and Mexico. In an effort to provide relevant information to the inventory of biological diversity in Mexico and the world, the state distribution for each species was also included, endemic taxa were noted, and the distribution of Mexican caddisflies in other countries was detailed.

## Material and methods

Distribution data of species from Oaxaca were obtained through a comprehensive review of published literature, including catalogues, taxonomic reviews, the Universidad Nacional Autónoma de México's open data portal (DGRU, 2023), and the Trichoptera World Checklist (Morse, 2023). Some records that have not been published yet were included in this compilation, records come from biological material collected in the field and deposited in the National Insect Collection of the Institute of Biology at Universidad Nacional Autónoma de México (CNIN-IBUNAM). The bibliographic citations of the records corresponding to Oaxaca were mentioned in parentheses at the end of the distribution of each species.

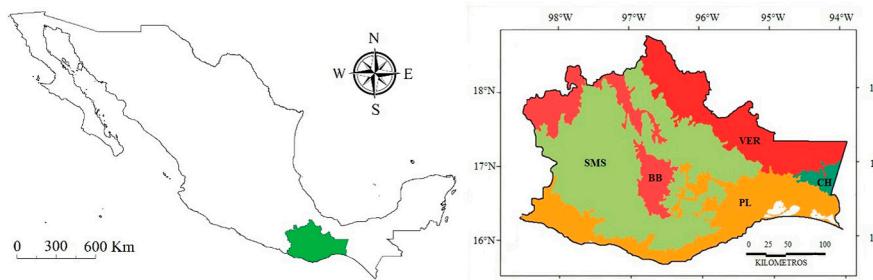


Figure 1. Geographic location of Oaxaca State and the biogeographic provinces that it encompasses. SMS = Sierra Madre del Sur, BB = Balsas Basin, PL = Pacific Lowlands, VER = Veracruzian, CH = Chiapas Highlands.

The list of Mexican caddisflies was structured according to the classification scheme proposed by Holzenthal et al. (2007) for the suborders and that of Wiggins and Wichard (1989) for the lower taxonomic categories, and the genera and species were ordered alphabetically. The valid names of the species, the author and year, the references where distribution records for Oaxaca are reported, their synonyms and geographic distribution is detailed, and the endemic species for Oaxaca and Mexico are stated. For distribution outside Mexico, the work of Holzenthal and Calor (2017) was employed.

The biogeographic provinces included in Oaxaca follow the criteria of Morrone et al. (2017), the abbreviations used to name these provinces are: Sierra Madre del Sur (SMS), Balsas Basin (BB), Pacific Lowlands (PL), Veracuzan (VER) and Chiapas Highlands (CH) (Fig. 1). A map of species richness by state also was produced. To construct the species accumulation curve, the number of new records for Oaxaca per year was counted, the total number of species accumulated per year from 1950 to date was calculated, and finally the graph was constructed.

## Results

This research provides a checklist of the caddisflies of the state of Oaxaca, which includes 14 families, 44 genera and 216 species (Table 1), representing 35.88% of the species of Trichoptera recorded from Mexico. The richest families in Oaxaca are (Table 1): Hydroptilidae (13 genera, 45 spp.), Philopotamidae (2 genera, 34 spp.), Hydropsychidae (8 genera, 29 spp.), and Glossosomatidae (3 genera, 27 spp.). These families represent 62.21% of the caddisflies richness in Oaxaca. As part of the field-collected material, 9 species were recorded for the first time for Oaxaca (Table 2).

This is the first work that synthesizes the information on the caddisflies registered in Oaxaca, and makes it the most species-rich state in Mexico (Table 3). The families Calamoceratidae, Limnephilidae, Odontoceridae and Psychomyiidae are the poorest represented. Guanajuato, Querétaro, Quintana Roo, and Yucatán were not included in this checklist due to the lack of caddisfly records for them.

Bueno-Soria et al. (2022) reported in their work that *Xiphocentron julius* is distributed in Oaxaca; however, as we could not find the publication where this record is reported, we consulted Bueno-Soria directly, who carried out a revision and noted that there is an error to be corrected in the aforementioned publication, as *X. julius* has not been collected in Oaxaca (Bueno-Soria, pers. comm.).

Table 1

Families and number of subfamilies, tribes, genera, and species reported from Oaxaca, Mexico.

Family	Subfamily	Tribe	Genus	Species
Calamoceratidae	-	-	2	4
Glossosomatidae	1	-	3	27
Helicopsychidae	-	-	2	11
Hydrobiosidae	-	-	1	12
Hydropsychidae	4	2	8	29
Hydroptilidae	1	5	13	45
Lepidostomatidae	1	-	1	8
Leptoceridae	2	4	4	17
Limnephilidae	1	-	1	1
Odontoceridae	1	-	1	4
Philopotamidae	1	-	2	34
Polycentropodidae	1	-	3	20
Psychomyiidae	1	-	1	1
Xiphocentronidae	-	-	2	5

## Checklist

Suborder Annulipalpia

Superfamily Hydropsychoidea

Family Hydropsychidae Curtis, 1835

Subfamily Dilectroninae Ulmer, 1951

*Dilectrona chiapensis* Flint, 1967

Guatemala, Mexico (Chiapas, Estado de México, Guerrero, Morelos, Oaxaca, Veracruz) (Razo-González, 2018).

*Dilectrona solitaria* Bueno-Soria, 1986

Mexico (Oaxaca). Endemic to Oaxaca (Bueno-Soria, 1986).

Subfamily Hydropsychinae Curtis, 1835

*Cheumatopsyche gelita* Denning, 1952

Mexico (Aguascalientes, Chihuahua, Durango, Estado de México, Jalisco, Nuevo León, Oaxaca, Tamaulipas), USA (Razo-González, 2018).

*Hydropsyche ancestralis* (Ross & Unziker, 1977)

Mexico (Oaxaca). Endemic to Oaxaca (Ross & Unziker, 1977).

*Hydropsyche delrio* Ross, 1941

Mexico (Nuevo León, Oaxaca, Puebla, San Luis Potosí, Tamaulipas, Veracruz), USA (DGRU, 2023).

*Hydropsyche toschiae* (Denning, 1965)

Table 2

Species recorded for the first time in Oaxaca, Mexico.

Species	Locality	Coordinates	Altitude (m asl)
<i>Smicridea soyatepecana</i> Bueno-Soria, 1986	San Juan Bautista Valle Nacional, San Mateo Yetla	17°45'27" N 96°18'54" W	130
<i>Hydroptila longissimus</i> Bueno-Soria, 1984	San Pedro Yaneri, San Juan Tepanzacoalco	17°24'18" N 96°22'15" W	1,320
<i>Byrsopteryx tabasquensis</i> Bueno-Soria, Santigo-Fragoso, Barba-Álvarez, 2001	San Juan Bautista Valle Nacional, San Mateo Yetla	17°45'27" N 96°18'54" W	130
<i>Leucotrichia extraordinaria</i> Bueno-Soria, Santigo-Fragoso, Barba-Álvarez, 2001	San Pedro Yaneri, San Juan Tepanzacoalco	17°24'18" N 96°22'15" W	1,320
<i>Metrichia longitudinis</i> Bueno-Soria, 2002	Santiago Comaltepec, San Martín Soyolapam	17°41'47" N 96°16'54" W	136
<i>Nectopsyche gracilis</i> (Banks, 1901)	Santiago Comaltepec, San Martín Soyolapam	17°41'47" N 96°16'54" W	136
<i>Oecetis marquesi</i> Bueno-Soria, 1981	San Pedro Yaneri, San Juan Tepanzacoalco	17°24'18" N 96°22'15" W	1,320
<i>Chimarra cornuta</i> Ross, 1959	San Juan Bautista Valle Nacional, San Mateo Yetla	17°45'27" N 96°18'54" W	130
<i>Coenocentron trilineatum</i> (Mosely, 1934)	San Juan Bautista Valle Nacional, San Mateo Yetla	17°45'27" N 96°18'54" W	130

Belize, Colombia, Costa Rica, Grenada, Guatemala, Honduras, Mexico (Estado de México, Guerrero, Oaxaca, San Luis Potosí, Veracruz) (Razo-González, 2018).

*Plectropsyche hoogstraali* Ross, 1947

= *Plectropsyche pitella* (Denning, 1968)

Guatemala, Honduras, Mexico (Chiapas, Chihuahua, Estado de México, Guerrero, Jalisco, Michoacán, Morelos, Nayarit, Oaxaca, Puebla, San Luis Potosí, Tabasco, Tamaulipas, Veracruz), Nicaragua (Bueno-Soria, 2010a; Bueno-Soria & Barba-Álvarez, 2015).

*Plectropsyche velascoi* Bueno-Soria & Barba-Álvarez, 2015  
Mexico (Estado de México, Guerrero, Nuevo León, Michoacán, Morelos, Oaxaca, Veracruz) (Bueno-Soria & Barba-Álvarez, 2015). Endemic to Mexico.

Subfamily Macromatinae Ulmer, 1905

Tribe Macromatini Ulmer, 1905

*Centromacronema auripenne* (Rambur, 1842)

= *Centromacronema cupreum* (Walker, 1852)

= *Centromacronema niveistigma* (Walker, 1860)

= *Centromacronema abjurans* (Walker, 1860)

= *Centromacronema quadrifurca* (Walker, 1860)

= *Centromacronema extensum* Banks, 1913

Bolivia, Brazil, Colombia, Costa Rica, El Salvador, French Guiana, Guatemala, Guyana, Honduras, Mexico

(Chiapas, Guerrero, Michoacán, Nuevo León, Oaxaca, San Luis Potosí, Tabasco, Veracruz), Nicaragua, Panama, Peru, Venezuela (Bueno-Soria & Flint, 1978; Holzenthal, 1988a).

*Centromacronema oaxacensis* Bueno-Soria, in Flint et al., 1999

Mexico (Oaxaca, Veracruz) (Bueno-Soria, 1986). Endemic to Mexico.

*Leptonema albovirens* (Walker, 1852)

= *Leptonema guatemalum* Banks, 1913

Belize, Colombia, Costa Rica, Grenada, Guatemala, Honduras, Mexico (Chiapas, Chihuahua, Colima, Guerrero, Hidalgo, Michoacán, Morelos, Nuevo León, Oaxaca, Puebla, San Luis Potosí, Tabasco, Tamaulipas, Veracruz), Nicaragua, Panama, St. Vincent, Tobago, Trinidad, USA, Venezuela (Bueno-Soria & Flint, 1978).

*Leptonema championi* Mosely, 1933

Guatemala, Mexico (Oaxaca, Veracruz) (Flint et al., 1987).

*Leptonema crassum* Ulmer, 1905

= *Leptonema grisolinum* Navás, 1933

= *Leptonema radiale* Navás, 1972

Argentina, Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico (Chiapas, Michoacán, Oaxaca, Tabasco, Veracruz), Nicaragua, Panama, Paraguay, Peru, Venezuela (Flint et al., 1987).

Table 3

Number of species of caddisflies by state in Mexico. Ags = Aguascalientes, BC = Baja California, BCS=Baja California Sur, Cam = Campeche, Chis = Chiapas, Chih = Chihuahua, Coa = Coahuila, Col = Colima, CdMx = Ciudad de México, Dgo = Durango, EdoM = Estado de México, Gro = Guerrero, Hgo = Hidalgo, Jal = Jalisco, Mich = Michoacán, Mor = Morelos, Nay = Nayarit, NL = Nuevo León, Oax = Oaxaca, Pue = Puebla, SLP = San Luis Potosí, Sin = Sinaloa, Son = Sonora, Tab = Tabasco, Tam = Tamaulipas, Tlax = Tlaxcala, Ver = Veracruz, Zac = Zacatecas.

Families	Calamoceratidae	Ecnomiiidae	Glossosomatidae	Helicopsychidae	Hydrobiosidae	Hydropsychidae	Hydroptilidae	Lepidostomatidae	Lepetoceridae	Limnephilidae	Odontoceridae	Philopotamidae	Polycentropodidae	Xiphocentronidae	Total
States															
Ags	-	-	-	-	-	2	-	-	1	-	-	-	-	-	3
BC	1	-	-	2	1	4	-	1	2	2	1	4	1	-	23
BCS	-	-	-	-	-	-	1	-	-	-	2	-	-	-	3
Cam	-	-	-	-	-	3	1	-	-	-	-	-	1	-	5
Chis	2	-	19	9	6	22	48	2	12	1	4	29	27	7	188
Chih	2	1	11	6	1	11	32	1	5	3	2	13	4	-	92
Coa	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2
Col	-	-	1	-	-	1	-	-	-	-	-	1	-	-	3
CdMx	1	-	-	-	-	2	2	1	1	3	-	-	1	2	13
Dgo	1	-	2	4	5	8	1	5	4	10	3	4	6	-	53
EdoM	-	-	4	3	5	8	5	5	5	5	1	3	3	3	50
Gro	2	1	12	7	1	18	40	1	2	-	2	20	6	-	112
Hgo	-	-	2	2	3	4	15	3	0	1	-	3	2	-	35
Jal	-	-	1	2	1	5	-	-	3	-	1	4	3	-	20
Mich	1	-	6	4	1	13	6	3	2	-	1	5	7	3	52
Mor	2	-	6	3	4	13	19	1	4	2	1	6	4	-	65
Nay	-	-	-	1	-	2	1	1	-	-	-	7	2	-	14
NL	-	-	2	5	-	5	14	1	3	1	1	9	3	3	47
Oax	4	-	27	11	12	29	45	8	16	1	4	34	20	5	216
Pue	-	-	9	2	1	4	5	-	2	1	1	5	5	3	38
SLP	2	1	5	-	1	12	24	-	7	-	1	13	6	4	76
Sin	1	-	2	1	-	4	1	1	2	-	-	3	2	-	17
Son	1	-	-	1	-	3	8	-	1	-	2	10	-	-	26
Tab	-	-	7	4	1	14	44	-	4	-	2	14	5	6	101
Tam	1	-	1	1	1	6	8	-	2	-	1	7	4	-	32
Tlax	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Ver	4	1	20	5	7	25	50	3	19	1	2	21	15	7	180
Zac	-	-	-	1	-	-	-	-	-	-	-	-	2	-	3

- Leptonema moselyi* Flint, McAlpine & Ross, 1987  
Mexico (Chihuahua, Durango, Estado de México, Michoacán, Morelos, Oaxaca) (Flint et al., 1987). Endemic to Mexico.
- Leptonema pinotepa* Bueno-Soria, Santiago-Fragoso & Barba-Álvarez, 2001  
Mexico (Oaxaca) (Bueno-Soria et al., 2001). Endemic to Oaxaca.
- Leptonema plicatum* Mosely, 1933  
Guatemala, Mexico (Chiapas, Guerrero, Jalisco, Michoacán, Morelos, Oaxaca, Veracruz) (DGRU, 2023).
- Leptonema simulans mayanum* Flint, McAlpine & Ross, 1987  
Guatemala, Mexico (Chiapas, Michoacán, Oaxaca, Tabasco, Veracruz), Nicaragua (Flint et al., 1987).
- Macronema variipenne* Flint & Bueno-Soria, 1979  
Costa Rica, Ecuador, Mexico (Chiapas, Oaxaca, San Luis Potosí, Tabasco, Veracruz), Nicaragua, Panama (Flint & Bueno-Soria, 1979; Holzenthal, 1988a).
- Tribe Polymorphanisini Lestage, 1936
- Synoestropsis punctipennis* Ulmer, 1905  
Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Guyana, Honduras, Mexico (Campeche, Oaxaca), Nicaragua, Peru (Bueno-Soria & Flint, 1978).
- Subfamily Smicrideinae Flint, 1974
- Smicridea (Smicridea) bulara* Flint & Denning, 1989  
Mexico (Oaxaca, Tabasco), Trinidad (Razo-González et al., 2023).
- Smicridea (Smicridea) dampfi* Flint, 1974  
Mexico (Chiapas, Oaxaca, Tabasco) (Razo-González et al., 2023). Endemic to Mexico.
- Smicridea (Smicridea) lacanha* Bueno-Soria & Hamilton, 1986  
Guatemala, Mexico (Chiapas, Oaxaca) (Razo-González et al., 2023).
- Smicridea (Smicridea) pochutla* Bueno-Soria, Santiago-Fragoso & Barba-Álvarez, 2001.  
Mexico (Guerrero, Oaxaca) (Bueno-Soria et al., 2001). Endemic to Mexico.
- Smicridea (Smicridea) varia* (Banks, 1913)  
Costa Rica, Ecuador, Guatemala, Mexico (Campeche, Chiapas, Ciudad de Mexico, Guerrero, Hidalgo, Morelos, Oaxaca, Sinaloa, Sonora, Tabasco, Veracruz), Nicaragua, Panama (Flint, 1974a).
- Smicridea (Smicridea) soyatepecana* Bueno-Soria, 1986  
Mexico (Guerrero, Oaxaca, Tabasco) (new state record). Endemic to Mexico.
- Smicridea (Rhyacophylax) dispar* (Banks, 1905)  
= *Smicridea utico* Ross, 1947
- Mexico (Estado de México, Guerrero, Jalisco, Michoacán, Morelos, Oaxaca, Sinaloa, Sonora) (Flint, 1974a; Razo-González, 2018). Endemic to Mexico.
- Smicridea (Rhyacophylax) dithyra* Flint, 1974  
Argentina, Bolivia, Guatemala, Honduras, Mexico (Chiapas, Guerrero, Morelos, Oaxaca, Puebla, Tabasco, Veracruz) (Razo-González et al., 2023).
- Smicridea (Rhyacophylax) radula* Flint, 1974  
Brazil, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Mexico (Chiapas, Oaxaca, Veracruz), Nicaragua, Panama (Flint, 1974a).
- Smicridea (Rhyacophylax) signata* (Banks, 1903)  
Guatemala, Mexico (Campeche, Chiapas, Ciudad de Mexico, Guerrero, Jalisco, Michoacán, Morelos, Nayarit, Oaxaca, San Luis Potosí, Tabasco, Veracruz), Nicaragua, Panama, USA (Flint, 1974a).
- Superfamily Philopotamoidea Stephens, 1829
- Family Philopotamidae Stephens, 1829
- Subfamily Philopotaminae Stephens, 1829
- Wormaldia arizonensis* (Ling, 1938)  
Mexico (Chihuahua, Durango, Estado de México, Nuevo León, Oaxaca), USA (Muñoz-Quesada & Holzenthal, 2015).
- Wormaldia barbata* Muñoz-Quesada, 2003  
Mexico (Michoacán, Oaxaca, Veracruz) (Muñoz-Quesada & Holzenthal, 2015). Endemic to Mexico.
- Wormaldia dampfi* Ross & King, 1956  
Mexico (Chiapas, Nuevo León, Oaxaca), Nicaragua (Muñoz-Quesada & Holzenthal, 2015).
- Wormaldia dorsata* Ross & King, 1956  
Mexico (Chiapas, Oaxaca) (Bueno-Soria & Flint, 1978). Endemic to Mexico.
- Wormaldia isela* Muñoz-Quesada, 2003  
Mexico (Nuevo León, Oaxaca) (Muñoz-Quesada & Holzenthal, 2015). Endemic to Mexico.
- Wormaldia luma* Bueno-Soria & Holzenthal, 1986  
Mexico (Oaxaca) (Bueno-Soria & Holzenthal, 1986; Muñoz-Quesada & Holzenthal, 2015). Endemic to Oaxaca.
- Wormaldia navarroae* Muñoz-Quesada, 2003  
Mexico (Guerrero, Oaxaca) (Muñoz-Quesada & Holzenthal, 2015). Endemic to Mexico.
- Wormaldia noveloi* Razo-González, 2018  
Mexico (Oaxaca) (Razo-González, 2018). Endemic to Oaxaca.
- Wormaldia palma* Ross & King, 1956  
Colombia, Mexico (Oaxaca) (Razo-González, 2018).
- Wormaldia planae* Ross & King, 1956  
= *Wormaldia arcopa* Denning, in Denning & Sykora, 1966
- Brazil, Colombia, Costa Rica, Dominica, Ecuador, Grenada, Guatemala, Guyana, Martinique, Mexico (Chiapas,

- Guerrero, Michoacán, Oaxaca, Tabasco, Veracruz), Nicaragua, Panama, St. Vincent, Tobago, Trinidad, USA, Venezuela (Muñoz-Quesada & Holzenthal, 2015).  
*Wormaldia tarasca* Bueno-Soria & Holzenthal, 1986 Mexico (Estado de México, Guerrero, Michoacán, Oaxaca, Puebla, Veracruz) (Muñoz-Quesada & Holzenthal, 2015; Razo-González, 2018). Endemic to Mexico.
- Subfamily Chimarrinae Rambur, 1842  
*Chimarra (Chimarra) acuta* Ross, 1959  
= *Chimarra (Chimarra) boneti* Ross, 1959  
Guatemala, Honduras, Mexico (Chiapas, Chihuahua, Estado de México, Guerrero, Jalisco, Morelos, Oaxaca, Tabasco, Veracruz), Nicaragua (Blahnik, 1998).  
*Chimarra (Chimarra) angustipennis* (Banks, 1903)  
= *Chimarra (Chimarra) siva* Denning, 1949  
Colombia, Costa Rica, Guatemala, El Salvador, Honduras, Mexico (Baja California, Chiapas, Chihuahua, Coahuila, Guerrero, Oaxaca, San Luis Potosí, Sonora, Tabasco, Veracruz), Nicaragua, Panama, USA, Venezuela (Bueno-Soria & Flint, 1978).  
*Chimarra (Chimarra) beameri* Denning, 1950  
= *Chimarra (Chimarra) calva* Ross, 1959  
Belize, Mexico (Chiapas, Chihuahua, Oaxaca, San Luis Potosí, Tabasco, Tamaulipas, Veracruz), USA (Bueno-Soria & Flint, 1978).  
*Chimarra (Chimarra) bicolor* (Banks, 1901)  
= *Chimarra (Chimarra) xesta* Denning, 1952  
Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Chihuahua, Guerrero, Morelos, Oaxaca, Sinaloa, Sonora, Tabasco, Veracruz), Nicaragua (Bueno-Soria & Flint, 1978).  
*Chimarra (Chimarra) butleri* Denning, 1962 Mexico (Chihuahua, Oaxaca, Sonora), USA (Razo-González, 2018).  
*Chimarra (Chimarra) cornuta* Ross 1959 Mexico (Chiapas, Oaxaca) (new state record). Endemic to Mexico.  
*Chimarra (Chimarra) curfmani* Ross, 1959 Mexico (Chiapas, Oaxaca, Veracruz) (Bueno-Soria & Flint, 1978; Blahnik, 1998). Endemic to Mexico.  
*Chimarra (Chimarra) dentosa* Ross, 1948b Costa Rica, Guatemala, Mexico (Chiapas, Michoacán, Nayarit, Oaxaca, San Luis Potosí, Tamaulipas, Veracruz), Nicaragua, Panama (Bueno-Soria & Flint, 1978; Bueno-Soria, 2010a).  
*Chimarra (Chimarra) elia* Ross, 1944  
= *Chimarra (Chimarra) barranca* Denning, 1962 Costa Rica, Guatemala, Mexico (Baja California, Chiapas, Chihuahua, Guerrero, Jalisco, Nayarit, Nuevo León, Oaxaca, San Luis Potosí, Sonora, Veracruz), Nicaragua, USA (Bueno-Soria & Flint, 1978).
- Chimarra (Chimarra) embia* Ross, 1959  
= *Chimarra (Chimarra) rizona* Denning, 1962  
= *Chimarra (Chimarra) spicula* Denning, 1962  
= *Chimarra (Chimarra) stellula* Denning, 1962  
El Salvador, Honduras, Mexico (Chiapas, Guerrero, Morelos, Nayarit, Oaxaca, San Luis Potosí, Sinaloa, Sonora, Veracruz), Nicaragua (Bueno-Soria & Flint, 1978).  
*Chimarra (Chimarra) flinti* Bueno-Soria, 1985 Belize, Brazil, Colombia, Costa Rica, Honduras, Mexico (Chiapas, Oaxaca, Tabasco), Nicaragua, Panama, Tobago, Trinidad, Venezuela (Bueno-Soria, 1985).  
*Chimarra (Chimarra) oaxaca* Blahnik, 1998 Mexico (Oaxaca) (Blahnik, 1998). Endemic to Oaxaca.  
*Chimarra (Chimarra) ortiziana* Flint, 1967 Belize, Costa Rica, Guatemala, Mexico (Chiapas, Hidalgo, Oaxaca, Tabasco, Veracruz) (Blahnik, 1998).  
*Chimarra (Chimarra) pelaezi* Bueno-Soria, 1985 Mexico (Guerrero, Oaxaca) (Blahnik, 1998). Endemic to Mexico.  
*Chimarra (Chimarra) ridleyi* (Denning, 1941)  
Costa Rica, El Salvador, Guatemala, Honduras, Mexico (Chiapas, Chihuahua, Guerrero, Nuevo León, Oaxaca, Puebla, San Luis Potosí, Sonora, Tabasco, Tamaulipas, Veracruz), Nicaragua, USA (Blahnik, 1998).  
*Chimarra (Chimarra) schiza* Ross, 1959 Mexico (Guerrero, Jalisco, Nuevo León, Oaxaca, San Luis Potosí, Sonora, Tamaulipas), USA (Ross, 1959; Bueno-Soria & Flint, 1978).  
*Chimarra (Chimarra) setosa* Ross, 1959 Guatemala, Mexico (Chiapas, Guerrero, Chihuahua, Oaxaca, Tabasco, Veracruz), Nicaragua (Bueno-Soria & Flint, 1978).  
*Chimarra (Curgia) barrettiae* (Banks, 1900)  
Costa Rica, Guatemala, Mexico (Chiapas, Hidalgo, Oaxaca, Puebla, Veracruz), Nicaragua, Panama (Flint, 1998).  
*Chimarra (Curgia) blepharophera* Flint, 1998 Mexico (Guerrero, Jalisco, Nayarit, Oaxaca) (Flint, 1998). Endemic to Mexico.  
*Chimarra (Curgia) laguna* Ross, 1951  
= *Chimarra (Curgia) brustia* Ross, 1959  
= *Chimarra (Curgia) alamosa* Denning, 1962  
Belize, Costa Rica, Guatemala, Honduras, Mexico (Baja California Sur, Chiapas, Colima, Estado de México, Guerrero, Jalisco, Michoacán, Morelos, Nayarit, Oaxaca, Sinaloa, Sonora, Tabasco, Veracruz), Nicaragua (Flint, 1998).  
*Chimarra (Curgia) mexicana* (Banks, 1900)  
Guatemala, Mexico (Chiapas, Chihuahua, Durango, Guerrero, Morelos, Nayarit, Oaxaca, Puebla, Sonora, Veracruz) (Flint, 1998).  
*Chimarra (Curgia) nasuta* Flint, 1998

- Mexico (Guerrero, Nayarit, Oaxaca, Veracruz) (Flint, 1998). Endemic to Mexico.
- Chimarra (Curgia) texana* (Banks, 1920)  
= *Chimarra (Curgia) betteni* Denning, 1941
- Mexico (Hidalgo, Nuevo León, Oaxaca, Puebla, San Luis Potosí, Tamaulipas, Veracruz), USA (Flint, 1998; Razo-González, 2018).
- Family Polycentropodidae Ulmer, 1903
- Subfamily Polycentropodinae Ulmer, 1903
- Cernotina calcea* Ross, 1938
- Mexico (Michoacán, Oaxaca, San Luis Potosí, Veracruz), Nicaragua, USA (Razo-González et al., 2023).
- Cernotina chiapaneca* Bueno-Soria, 2010
- Mexico (Chiapas, Oaxaca) (Razo-González et al., 2023). Endemic to Mexico.
- Cernotina taeniata* Ross, 1951
- Costa Rica, Guatemala, Mexico (Chiapas, Oaxaca, Tabasco), Nicaragua, Panama (Bueno-Soria & Flint, 1978; Holzenthal, 1988a).
- Cernotina zanclana* Ross, 1951
- Belize, Mexico (Oaxaca) (Ross, 1951; Bueno-Soria & Flint, 1978).
- Polycentropus aliciae* Barba-Álvarez & Bueno-Soria, 2005
- Mexico (Chiapas, Oaxaca, Veracruz) (Barba-Álvarez & Bueno-Soria, 2005). Endemic to Mexico.
- Polycentropus ariensis* Denning & Sykora, 1966
- Mexico (Estado de México, Guerrero, Michoacán, Morelos, Oaxaca, Puebla) (Bueno-Soria & Flint, 1978; Razo-González, 2018). Endemic to Mexico.
- Polycentropus aztecus* Flint, 1967
- Mexico (Chiapas, Chihuahua, Durango, Estado de México, Michoacán, Oaxaca, Veracruz), USA (Bueno-Soria, 2010a; Razo-González, 2018).
- Polycentropus casicus* Denning & Sykora, 1966
- Mexico (Durango, Estado de México, Michoacán, Oaxaca, Veracruz) (Razo-González, 2018). Endemic to Mexico.
- Polycentropus encera* Denning & Sykora, in Denning, 1971
- Mexico (Chiapas, Oaxaca, Tabasco, Veracruz) (Bueno-Soria, 2010a.). Endemic to Mexico.
- Polycentropus giovannae* Barba-Álvarez & Bueno-Soria, 2005
- Mexico (Oaxaca) (Barba-Álvarez & Bueno-Soria, 2005). Endemic to Oaxaca.
- Polycentropus mayanus* Flint, 1981
- Costa Rica, Mexico (Chiapas, Oaxaca, Tabasco), Nicaragua (Razo-González et al., 2023).
- Polycentropus mexicanus* (Banks, 1901)
- Mexico (Chiapas, Ciudad de México, Oaxaca) (Razo-González, 2018). Endemic to Mexico.
- Polycentropus mixteco* Barba-Álvarez & Bueno-Soria, 2005
- Mexico (Oaxaca) (Barba-Álvarez & Bueno-Soria, 2005). Endemic to Oaxaca.
- Polycentropus palmitus* Flint, 1967
- Mexico (Chiapas, Guerrero, Oaxaca, Sinaloa) (Bueno-Soria, 2010a). Endemic to Mexico.
- Polycentropus veracruzensis* Flint, 1981
- Mexico (Oaxaca, Puebla, Veracruz) (Bueno-Soria, 2010a). Endemic to Mexico.
- Polycentropus zanclus* Flint, 1981
- Guatemala, Mexico (Chiapas, Oaxaca, Veracruz), Nicaragua (Bueno-Soria, 2010a).
- Polyplectropus carolae* Bueno-Soria, 1990
- Mexico (Oaxaca, Veracruz) (Razo-González et al., 2023). Endemic to Mexico.
- Polyplectropus charlesi* (Ross, 1941)
- Mexico (Chiapas, Durango, Guerrero, Michoacán, Morelos, Oaxaca, Puebla, San Luis Potosí, Tabasco, Tamaulipas, Veracruz), Nicaragua, Panama, USA (Bueno-Soria & Flint, 1978).
- Polyplectropus hamatus* Bueno-Soria, 1990
- Belize, Mexico (Chiapas, Oaxaca) (Chamorro & Holzenthal, 2010).
- Polyplectropus oaxaquensis* Bueno-Soria, 1990
- Mexico (Oaxaca), Peru (Bueno-Soria, 1990; Chamorro & Holzenthal, 2010).
- Family Xiphocentronidae Ross, 1949
- Subfamily Xiphocentroninae Ross, 1949
- Caenocentron trilineatum* (Moseley, 1934)
- El Salvador, Mexico (Oaxaca, Tabasco, Veracruz) (new state record).
- Xiphocentron (Antillotrichia) serestus* Schmid, 1982
- Mexico (Michoacán, Oaxaca) (Razo-González, 2018). Endemic to Mexico.
- Xiphocentron (Antillotrichia) rhamnes* Schmid, 1982
- Mexico (Estado de México, Puebla, Oaxaca, Veracruz) (Bueno-Soria et al., 2022). Endemic to Mexico.
- Xiphocentron (Rumphocentron) numanus* Schmid, 1982
- Mexico (Oaxaca) (Schmid, 1982). Endemic to Oaxaca.
- Xiphocentron (Xiphocentron) aureum* Flint, 1967
- Mexico (Oaxaca, Veracruz), Panama (Razo-González et al., 2023).
- Suborder "Spicipalpia"
- Family Hydrobiosidae Ulmer, 1905
- Subfamily Hydrobiosinae Ulmer, 1907
- Atopsyche (Atopsyche) aplita* Ross & King, 1952
- Mexico (Estado de México, Oaxaca, Puebla) (DGRU, 2023). Endemic to Mexico.

- Atopsyche (Atopsyche) bifurcata* Razo-González & Novelo-Gutiérrez, 2021.  
Mexico (Oaxaca) (Razo-González et al., 2021). Endemic to Oaxaca.
- Atopsyche (Atopsyche) calopta* Ross & King, 1952  
Mexico (Chiapas, Chihuahua, Durango, Estado de México, Hidalgo, Morelos, Nuevo León, Oaxaca, Veracruz) (Flint, 1967a; Bueno-Soria & Flint, 1978). Endemic to Mexico.
- Atopsyche (Atopsyche) dampfi* Ross & King, 1952  
Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Estado de México, Hidalgo, Oaxaca, Puebla, Veracruz), Nicaragua, Panama (Ross & King, 1952; Bueno-Soria & Flint, 1978; Holzenthal, 1988a).
- Atopsyche (Atopsyche) erigia* Ross, 1947  
Brazil, Costa Rica, Guatemala, Mexico (Chiapas, Hidalgo, Jalisco, Morelos, Nuevo León, Oaxaca, San Luis Potosí, Tabasco, Tamaulipas, Veracruz), Nicaragua, Panama, USA (Ross & King, 1952; Bueno-Soria & Flint, 1978).
- Atopsyche (Atopsyche) hidalgoi* Flint, 1967  
Mexico (Chiapas, Ciudad de México, Estado de México, Morelos, Oaxaca) (DGRU, 2023). Endemic to Mexico.
- Atopsyche (Atopsyche) hispida* Denning, 1965  
Mexico (Chiapas, Oaxaca, Puebla, Veracruz) (DGRU, 2023). Endemic to Mexico.
- Atopsyche (Atopsyche) huenga* Flint, 1974  
Guatemala, Mexico (Chiapas, Oaxaca), Nicaragua (Razo-González et al., 2023).
- Atopsyche (Atopsaura) japoda* Ross & King, 1952  
Mexico (Oaxaca), Nicaragua (Razo-González et al., 2023).
- Atopsyche (Atopsyche) jujmi* Razo-González & Novelo-Gutiérrez, 2021  
Mexico (Oaxaca) (Razo-González et al., 2021). Endemic to Oaxaca.
- Atopsyche (Atopsaura) majada* Ross, 1947  
Belize, Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Estado de México, Hidalgo, Michoacán, Morelos, Oaxaca, Puebla, Veracruz), Nicaragua, Panama (Razo-González et al., 2023).
- Atopsyche (Atopsyche) pilcomayo* Schmid, 1989  
Mexico (Oaxaca) (Schmid, 1989; Razo-González et al., 2021). Endemic to Oaxaca.
- Family Glossosomatidae Wallengren, 1891  
Subfamilia Protoptilinae Ross, 1956
- Culoptila aluca* Mosely, 1954  
Mexico (Guerrero, Michoacán, Morelos, Oaxaca) (Blahnik & Holzenthal, 2006). Endemic to Mexico.
- Culoptila barrerai* Bueno-Soria & Santiago-Fragoso, 1996  
Mexico (Oaxaca) (Bueno-Soria & Santiago-Fragoso, 1996; Blahnik & Holzenthal, 2006). Endemic to Oaxaca.
- Culoptila jamapa* Bueno-Soria & Santiago-Fragoso, 1996  
Mexico (Oaxaca, Puebla, Veracruz) (Razo-González et al., 2023). Endemic to Mexico.
- Culoptila pararusia* Blahnik & Holzenthal, 2006  
Mexico (Chiapas, Oaxaca, Veracruz) (Blahnik & Holzenthal, 2006). Endemic to Mexico.
- Mortoniella brachyrhachos* Blahnik & Holzenthal, 2008  
Mexico (Oaxaca) (Blahnik & Holzenthal, 2008). Endemic to Oaxaca.
- Mortoniella buenoi* Blahnik & Holzenthal, 2008  
Mexico (Oaxaca) (Blahnik & Holzenthal, 2008). Endemic to Oaxaca.
- Mortoniella falcicula* Blahnik & Holzenthal, 2008  
Mexico (Oaxaca) (Blahnik & Holzenthal, 2008). Endemic to Oaxaca.
- Mortoniella florica* (Flint, 1974)  
Mexico (Oaxaca, Tabasco, Veracruz), Nicaragua (Blahnik & Holzenthal, 2008).
- Mortoniella meralda* (Mosely, 1954)  
Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Chihuahua, Estado de México, Guerrero, Michoacán, Morelos, Nuevo León, Oaxaca, Puebla, Tabasco, Veracruz), Nicaragua (Razo-González, 2018).
- Mortoniella mexicana* Blahnik & Holzenthal, 2008  
Mexico (Oaxaca, Puebla) (Razo-González et al., 2023). Endemic to Mexico.
- Protoptila bicornuta* Flint, 1963  
Belize, Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Oaxaca, Tabasco, Veracruz), Panama (Bueno-Soria & Flint, 1978; Holzenthal, 1988a).
- Protoptila cardela* Moseley, 1954  
Mexico (Chiapas, Oaxaca, San Luis Potosí, Tabasco, Veracruz) (Bueno-Soria & Flint, 1978). Endemic to Mexico.
- Protoptila chontala* Flint, 1974  
Mexico (Chiapas, Oaxaca, San Luis Potosí, Tabasco, Veracruz) (Bueno-Soria, 2010a). Endemic to Mexico.
- Protoptila huava* Flint, 1974  
Mexico (Chiapas, Oaxaca) (Flint, 1974b; Bueno-Soria & Flint, 1978). Endemic to Mexico.
- Protoptila ixtala* Mosely, 1937  
Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Guerrero, Oaxaca, Puebla, San Luis Potosí, Tabasco, Veracruz), Nicaragua (Bueno-Soria, 2010a).
- Protoptila leonilae* Bueno-Soria & Santiago-Fragoso, 1995  
Mexico (Oaxaca) (Bueno-Soria & Santiago-Fragoso, 1995). Endemic to Oaxaca.
- Protoptila liqua* Moseley, 1954  
Mexico (Chiapas, Oaxaca, Veracruz) (Razo-González et al., 2023). Endemic to Mexico.
- Protoptila lorada* Moseley, 1954

- Mexico (Guerrero, Oaxaca) (Bueno-Soria & Flint, 1978). Endemic to Mexico.
- Protoptila mixteca mixteca* Flint, 1974  
Mexico (Chiapas, Oaxaca, Veracruz) (Flint, 1974b). Endemic to Mexico.
- Protoptila olvidada* Bueno-Soria, Santiago-Fragoso & Barba-Álvarez, 2004.  
Mexico (Oaxaca) (Bueno-Soria et al., 2004). Endemic to Oaxaca.
- Protoptila piacha* Mosely, 1954  
Mexico (Chiapas, Guerrero, Nuevo León, Oaxaca) (Bueno-Soria, 2010a). Endemic to Mexico.
- Protoptila pseudopiacha* Bueno-Soria, 1984  
Mexico (Durango, Oaxaca) (Bueno-Soria, 1984). Endemic to Mexico.
- Protoptila resolda* Mosely, 1937  
Mexico (Chiapas, Chihuahua, Guerrero, Hidalgo, Michoacán, Nayarit, Oaxaca, Puebla, San Luis Potosí, Veracruz), Nicaragua (Razo-González et al., 2023).
- Protoptila rota* Mosely, 1937  
Mexico (Chiapas, Oaxaca, Veracruz), Nicaragua (Bueno-Soria, 2010a).
- Protoptila salta* Mosely, 1937  
Guatemala, Mexico (Chiapas, Estado de México, Guerrero, Jalisco, Oaxaca), Nicaragua (Bueno-Soria, 2010a).
- Protoptila spangleri* Flint, 1967  
Mexico (Oaxaca, Tabasco, Veracruz) (Razo-González et al., 2023). Endemic to Mexico.
- Protoptila techila* Mosely, 1954  
Mexico (Oaxaca) (Mosely, 1954; Bueno-Soria & Flint, 1978). Endemic to Oaxaca.
- Family Hydroptilidae Stephens, 1936  
Subfamily Hydroptilinae Stephens, 1936  
Tribe Hydroptili  
*Hydroptila arctica* Ross, 1938  
Mexico (Chihuahua, Guerrero, Morelos, Oaxaca, Tamaulipas), USA (Bueno-Soria, 1984; Razo-González, 2018).
- Hydroptila denza* Ross, 1948a  
Mexico (Guerrero, Nayarit, Oaxaca, Tamaulipas, Veracruz) (Bueno-Soria, 1984; Holzenthal, 1988a). Endemic to Mexico.
- Hydroptila furtiva* Bueno-Soria, 1984  
Mexico (Oaxaca) (Bueno-Soria, 1984). Endemic to Oaxaca.
- Hydroptila lacandona* Bueno-Soria, 1984  
Mexico (Chiapas, Oaxaca) (Bueno-Soria, 1984). Endemic to Mexico.
- Hydroptila longissimus* Bueno-Soria 1984  
Honduras, Mexico (Chiapas, Guerrero, Morelos, Oaxaca) (new state record).
- Hydroptila mexicana* Mosely, 1937  
Costa Rica, Honduras, Mexico (Chiapas, Oaxaca, Tabasco), Nicaragua (Bueno-Soria, 1984).
- Hydroptila misolha* Bueno-Soria, 1984  
Belize, Costa Rica, Honduras, Mexico (Chiapas, Oaxaca, Tabasco, Veracruz), Nicaragua (Bueno-Soria, 1984).
- Oxyethira azteca* (Mosely, 1937)  
Belize, Colombia, Costa Rica, Ecuador, French Guyana, Grenada, Guatemala, Mexico (Chiapas, Chihuahua, Guerrero, Hidalgo, Oaxaca, San Luis Potosí, Tabasco, Veracruz), Nicaragua, Panama, Peru, Suriname, Tobago, Trinidad, USA, Venezuela (Razo-González, 2018).
- Oxyethira desadorna* Moulton & Harris, 1997  
Mexico (Chihuahua, Nuevo León, Oaxaca) (Razo-González et al., 2023). Endemic to Mexico.
- Oxyethira tica* Holzenthal & Harris, 1992  
Barbados, Brazil, Costa Rica, Dominica, Ecuador, French Guyana, Grenada, Guadeloupe, Honduras, Martinique, Mexico (Chiapas, Oaxaca), Nicaragua, Panama, St. Lucia, St. Vincent, Trinidad, Venezuela (Razo-González et al., 2023).
- Tribe Leucotrichiini
- Anchitrichia spangleri* Flint, 1970  
Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Oaxaca, Puebla, San Luis Potosí, Tabasco, Veracruz), Nicaragua, Panama (Razo-González et al., 2023).
- Byrsopteryx tabasquensis* Bueno-Soria, Santiago-Fragoso & Barba-Álvarez, 2001  
Mexico (Oaxaca, Tabasco) (new state record). Endemic to Mexico.
- Costatrichia lodora* Mosely, 1937  
Costa Rica, Mexico (Chiapas, Oaxaca, Tabasco, Veracruz), Nicaragua (Razo-González et al., 2023).
- Leucotrichia extraordinaria* Bueno-Soria, Santiago-Fragoso y Barba-Álvarez, 2001  
Mexico (Oaxaca, Tabasco) (new state record), Panama.
- Leucotrichia imitator* Flint, 1970  
Costa Rica, Guatemala, Mexico (Chihuahua, Morelos, Oaxaca, Veracruz) (Razo-González, 2018).
- Leucotrichia limpia* Ross, 1944  
Costa Rica, Mexico (Chiapas, Chihuahua, Guerrero, Hidalgo, Oaxaca, San Luis Potosí), USA (Flint, 1970; Bueno-Soria & Flint, 1978, Holzenthal, 1988a).
- Leucotrichia melleopicta* Mosely, 1934b  
Mexico (Oaxaca, Tabasco), Panama, Venezuela (Razo-González et al., 2023).
- Leucotrichia sarita* Ross, 1944  
Costa Rica, El Salvador, Grenada, Guatemala, Mexico (Chiapas, Chihuahua, Michoacán, Morelos, Nuevo León, Oaxaca, Veracruz), Nicaragua, USA (Flint, 1970; Bueno-Soria & Flint, 1978; Holzenthal, 1988a).

- Mejicanotrichia tamaza* (Flint, 1970)  
Mexico (Oaxaca) (Flint, 1970; Bueno-Soria & Flint, 1978; Harris & Holzenthal, 1997). Endemic to Oaxaca.
- Zumatrichia filosa* Mosely, 1937  
Costa Rica, Guatemala, Mexico (Chiapas, Oaxaca, Puebla, Tabasco, Veracruz), Nicaragua (Razo-González et al., 2023).
- Zumatrichia multisetosa* Flint, 1970  
Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Oaxaca, Veracruz) (Razo-González et al., 2023).
- Tribe Neotrichiini
- Mayatrichia rualda* Mosely, 1937  
Costa Rica, Mexico (Chiapas, Guerrero, Oaxaca), Nicaragua (Razo-González et al., 2023).
- Neotrichia exicoma* (Mosely, 1937)  
Mexico (Chiapas, Oaxaca) (Razo-González et al., 2023). Endemic to Mexico.
- Neotrichia maria* Bueno-Soria & Hamilton, 1986  
Mexico (Oaxaca) (Bueno-Soria & Hamilton, 1986). Endemic to Oaxaca.
- Neotrichia tuxtla* Bueno-Soria, 1999  
Mexico (Oaxaca, Veracruz), Panama (Razo-González, 2018).
- Neotrichia xicana* (Mosely, 1937)  
Mexico (Chiapas, Chihuahua, Guerrero, Oaxaca, Tabasco), Nicaragua, Panama (Razo-González et al., 2023).
- Neotrichia yavesia* Bueno-Soria, 2010  
Mexico (Oaxaca) (Bueno-Soria, 2010b). Endemic to Oaxaca.
- Tribe Ochrotrichiini
- Metricchia circulatrix* Bueno-Soria, 2002  
Mexico (Oaxaca, Tabasco) (Razo-González et al., 2023). Endemic to Mexico.
- Metricchia crenula* Bueno-Soria, 2002  
Mexico (Morelos, Oaxaca) (Razo-González et al., 2023). Endemic to Mexico.
- Metricchia longitudinis* Bueno-Soria, 2002  
Mexico (Oaxaca, Tabasco) (new state record). Endemic to Mexico.
- Metricchia yavesia* Bueno-Soria, 2002  
Mexico (Oaxaca) (Bueno-Soria, 2002; Razo-González, 2018). Endemic to Oaxaca.
- Ochrotrichia buenoi* Razo-González, 2018  
Mexico (Oaxaca) (Razo-González, 2018). Endemic to Oaxaca.
- Ochrotrichia catarina* Bueno-Soria & Holzenthal, 2004  
Mexico (Oaxaca) (Bueno-Soria & Holzenthal, 2004). Endemic to Oaxaca.
- Ochrotrichia ildria* Denning & Bickle, 1972  
Mexico (Chihuahua, Oaxaca), USA (Bueno-Soria, 2009).
- Ochrotrichia ixtlahuaca* Bueno-Soria & Holzenthal, 2004  
Mexico (Hidalgo, Oaxaca) (Razo-González, 2018). Endemic to Mexico.
- Ochrotrichia nicaragua* Bueno-Soria, 2009  
Mexico (Oaxaca), Nicaragua (Razo-González, 2018).
- Ochrotrichia pacifica* Fint, 1972  
Costa Rica, Mexico (Chiapas, Oaxaca, Tabasco, Veracruz), Panama (Razo-González et al., 2023).
- Ochrotrichia stylata* Ross, 1938  
Guatemala, Mexico (Chihuahua, Guerrero, Hidalgo, Oaxaca, San Luis Potosí, Veracruz), USA (Razo-González, 2018).
- Ochrotrichia unicornia* Bueno-Soria & Holzenthal, 2004  
Mexico (Oaxaca) (Bueno-Soria & Holzenthal, 2004). Endemic to Oaxaca.
- Ochrotrichia yavesia* Bueno-Soria & Holzenthal, 2004  
Mexico (Oaxaca) (Bueno-Soria & Holzenthal, 2004). Endemic to Oaxaca.
- Ochrotrichia yetla* Bueno-Soria, 2009  
Mexico (Oaxaca) (Bueno-Soria, 2009). Endemic to Oaxaca.
- Ochrotrichia zihuaquia* Bueno-Soria & Santiago-Fragoso, 1997  
Mexico (Guerrero, Oaxaca) (Bueno-Soria, 2009). Endemic to Mexico.
- Rhyacopsyche chichotla* Bueno-Soria & Hamilton, 1986  
Mexico (Oaxaca) (Bueno-Soria & Hamilton, 1986). Endemic to Oaxaca.
- Rhyacopsyche mexicana* (Flint, 1967)  
Costa Rica, Guatemala, Mexico (Oaxaca, Tabasco, Veracruz), Nicaragua (Razo-González et al., 2023).
- Tribe Orthotrichiini
- Ithytrichia mexicana* Harris & Contreras-Ramos, 1989  
Mexico (Oaxaca, Tamaulipas), USA (Razo-González, 2018).
- Suborder Integripalpia
- Infraorder Plenitentatoria
- Family Lepidostomatidae Ulmer, 1903
- Subfamily Lepidostomatinae Ulmer, 1903
- Lepidostoma (Nosopus) aztecum* Flint & Bueno-Soria, 1977  
Mexico (Ciudad de México, Estado de México, Morelos, Oaxaca, Veracruz) (Razo-González, 2018). Endemic to Mexico.
- Lepidostoma (Nosopus) catarina* Bueno-Soria, Santiago-Fragoso & Barba-Álvarez, 2001  
Mexico (Guerrero, Oaxaca) (Bueno-Soria et al., 2001). Endemic to Mexico.
- Lepidostoma (Nosopus) dafila* Bueno-Soria & Contreras-Ramos, 1986  
Mexico (Oaxaca) (Bueno-Soria & Contreras-Ramos, 1986). Endemic to Oaxaca.

- Lepidostoma (Nosopus) frontale* (Banks, 1901)  
Mexico (Estado de México, Hidalgo, Oaxaca, Veracruz) (Razo-González, 2018). Endemic to Mexico.
- Lepidostoma (Nosopus) oaxacensis* Bueno-Soria & Contreras-Ramos, 1986  
Mexico (Oaxaca) (Bueno-Soria & Contreras-Ramos, 1986). Endemic to Oaxaca.
- Lepidostoma bakeri* Flint, 1975  
Guatemala, Mexico (Durango, Chiapas, Oaxaca, Veracruz), USA (Razo-González, 2018).
- Lepidostoma ibarrai* Bueno-Soria, Santiago-Fragoso & Barba-Álvarez, 2004  
Mexico (Oaxaca) (Bueno-Soria et al., 2004). Endemic to Oaxaca.
- Lepidostoma zapoteca* Razo-González, 2018  
Mexico (Oaxaca) (Razo-González, 2018). Endemic to Oaxaca.
- Family Limnephilidae Kolenati, 1848  
Subfamily Limnephilinae Kolenati, 1848  
Tribe Limnephilini Kolenati, 1848  
*Limnephilus tulatus* Denning, 1962  
Mexico (Chihuahua, Ciudad de México, Durango, Estado de México, Oaxaca), USA (Razo-González et al., 2020).
- Suborden Integripalpia  
Infraorden Brevitentatoria  
Superfamily Leptoceroidea Leach, 1815  
Family Calamoceratidae Ulmer, 1905  
*Banyallarga (Histriconverpa) mexicana* Prather, 2004  
Mexico (Oaxaca) (Prather, 2004). Endemic to Oaxaca.  
*Phylloicus aeneus* (Hagen, 1861)  
Belize, Costa Rica, Guatemala, Mexico (Baja California, Campeche, Chiapas, Chihuahua, Ciudad de México, Durango, Guerrero, Hidalgo, Michoacán, Morelos, Nuevo León, Oaxaca, San Luis Potosí, Sonora, Tabasco, Tamaulipas, Veracruz), Nicaragua, Panama, USA (Prather, 2003; Razo-González, 2018).  
*Phylloicus nigripennis* (Banks, 1900)  
= *Phylloicus latus* (Navás, 1924)  
= *Phylloicus sagittosa* (Ross, 1951)  
Costa Rica, Guatemala, Honduras, Mexico (Chiapas, Estado de México, Guerrero, Morelos, Nayarit, Nuevo León, Oaxaca, San Luis Potosí, Tamaulipas, Veracruz), Nicaragua, Panama (DGRU, 2023).  
*Phylloicus gomezi* Razo-González, 2018  
Mexico (Oaxaca) (Razo-González, 2018). Endemic to Oaxaca.
- Family Leptoceridae Leach, 1815  
Subfamily Triplectidinae Ulmer, 1906  
Tribe Triplectidini Ulmer, 1906  
*Triplectides flintorum* Holzenthal, 1988  
Colombia, Costa Rica, Ecuador, Guatemala, Honduras, Mexico (Chiapas, Oaxaca, San Luis Potosí, Veracruz), Nicaragua, Panama, Peru, Suriname (Holzenthal, 1988b).
- Subfamily Leptocerinae Leach, 1815  
Tribe Nectopsychini Morse, 1981  
*Nectopsyche argentata* Flint, 1991  
Colombia, Costa Rica, Mexico (Chiapas, Oaxaca, Veracruz), Peru, Venezuela (Holzenthal, 1995).  
*Nectopsyche dorsalis* (Banks, 1901)  
= *Nectopsyche serrei* (Navás, 1924)  
Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Mexico (Chiapas, Jalisco, Michoacán, Morelos, Nuevo León, San Luis Potosí, Sinaloa, Tabasco, Veracruz), Nicaragua, Panama, USA, Venezuela (Razo-González et al., 2023).  
*Nectopsyche gemmoides* Flint, 1981  
= *Nectopsyche cupreosquamosa* Botosanuanu, 1993  
Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Guyana, Mexico (Chiapas, Estado de México, Oaxaca, Veracruz), Nicaragua, Panama, Paraguay, Peru, Trinidad, Venezuela (Holzenthal, 1995; Razo-González, 2018).  
*Nectopsyche gracilis* (Banks, 1901)  
= *Nectopsyche exilis* (Banks, 1905)  
= *Nectopsyche intervena* (Bansk, 1914)  
Canada, Costa Rica, El Salvador, Guatemala, Mexico (Chihuahua, Durango, Guerrero, Jalisco, Morelos, Oaxaca, Veracruz), USA (new state record).  
*Nectopsyche ortizi* Holzenthal, 1995  
Argentina, Brazil, Costa Rica, Guyana, Mexico (Chiapas, Oaxaca), Panama, Paraguay, Peru, Suriname, Venezuela (Holzenthal, 1995).  
*Nectopsyche pavida* (Hagen, 1861)  
Canada, Costa Rica, Guatemala, Mexico (Chiapas, Chihuahua, San Luis Potosí, Veracruz), Nicaragua, Panama, USA (Razo-González et al., 2023).
- Tribe Triaenodini Morse, 1981  
*Triaenodes flintorum* Holzenthal & Andersen, 2004  
Mexico (Oaxaca) (Holzenthal & Andersen, 2004). Endemic to Oaxaca.
- Triaenodes oaxacensis* Holzenthal & Andersen, 2004  
Mexico (Oaxaca) (Holzenthal & Andersen, 2004; Razo-González, 2018). Endemic to Oaxaca.
- Tribe Oecetini Silfvenius, 1905  
*Oecetis marquesi* Bueno-Soria, 1981  
Mexico (Chiapas, Nuevo León, Oaxaca, Veracruz) (new state record). Endemic to Mexico.

- Oecetis metlacensis* Bueno-Soria, 1981  
Costa Rica, Mexico (Veracruz, Oaxaca) (Razo-González et al., 2023).
- Oecetis mexicana* Blahnik & Holzenthal, 2014  
Belize, Costa Rica, Ecuador, Honduras, Mexico (Chiapas, Oaxaca, San Luis Potosí, Tamaulipas, Veracruz), Nicaragua, Panama, Venezuela (Blahnik & Holzenthal, 2014).
- Oecetis pseudoinconspicua* Bueno-Soria, 1981  
Costa Rica, Mexico (Oaxaca, Veracruz), Panama (Bueno-Soria, 1981).
- Oecetis silviae* Bueno-Soria, 1981  
Mexico (Oaxaca, Veracruz) (Razo-González et al., 2023). Endemic to Mexico.
- Oecetis sordida* Blahnik & Holzenthal, 2014  
= *Oecetis disjuncta* (Banks, 1920)  
Mexico (Chihuahua, Durango, Estado de México, Oaxaca), USA (Blahnik & Holzenthal, 2014; Razo-González, 2018).
- Oecetis verrucula* Blahnik & Holzenthal, 2014  
Costa Rica, El Salvador, Guatemala, Honduras, Mexico (Chiapas, Oaxaca, Sonora, Veracruz) Nicaragua (Blahnik & Holzenthal, 2014).
- Family Odontoceridae Wallengren, 1891  
Subfamily Odontocerinae Wallengren, 1891
- Marilia baumanni* Bueno-Soria & Rojas-Ascencio, 2004  
Mexico (Chiapas, Oaxaca, Tabasco) (Bueno-Soria & Rojas-Ascencio, 2004). Endemic to Mexico.
- Marilia flexuosa* Ulmer, 1905b  
= *Marilia fusca* (Banks, 1905)  
Argentina, Brazil, Canada, Costa Rica, Guatemala, Mexico (Baja California, Baja California Sur, Chiapas, Chihuahua, Durango, Guerrero, Jalisco, Michoacán, Nuevo León, Oaxaca, Puebla, Sonora, Tamaulipas, Veracruz), Nicaragua, Panama, Peru, USA (Bueno-Soria & Rojas-Ascencio, 2004; Razo-González, 2018).
- Marilia nobasca* Milne, 1936  
Guatemala, Mexico (Baja California Sur, Chiapas, Chihuahua, Durango, Estado de México, Guerrero, Oaxaca, Sonora), USA (Bueno-Soria & Rojas-Ascencio, 2004).
- Marilia spangleri* Bueno-Soria & Rojas-Ascencio, 2004  
Guatemala, Mexico (Chiapas, Oaxaca) (Bueno-Soria & Rojas-Ascencio, 2004).
- Family Helicopsychidae Ulmer, 1906  
*Helicopsyche (Cochliopsyche) vazquezae* Flint, 1986  
Bolivia, Colombia, Costa Rica, Ecuador, Honduras, Mexico (Chiapas, Oaxaca), Venezuela (Holzenthal, 1988a).
- Helicopsyche (Feropsyche) borealis* (Hagen, 1861)  
= *Helicopsyche lustrica* Say, 1821  
= *Helicopsyche arenifera* Lea, 1834  
= *Helicopsyche glabra* Hagen, 1864  
= *Helicopsyche californica* Banks, 1899  
= *Helicopsyche annulicornis* Banks, 1904  
Canada, Costa Rica, Guatemala, Mexico (Chiapas, Chihuahua, Coahuila, Durango, Estado de México, Guerrero, Hidalgo, Michoacán, Morelos, Nuevo León, Oaxaca, Puebla, Sonora, Tamaulipas, Veracruz), Nicaragua, Panama, USA (Bueno-Soria, 2010a; Razo-González, 2018).
- Helicopsyche (Feropsyche) dampfi* Ross, 1956  
Costa Rica, Guatemala, Mexico (Chiapas, Guerrero, Oaxaca), Nicaragua (Razo-González et al., 2023).
- Helicopsyche (Feropsyche) mexicana* Banks, 1901  
= *Helicopsyche (Feropsyche) arizonensis* Banks, 1907  
Costa Rica, Mexico (Baja California, Chihuahua, Durango, Estado de México, Guerrero, Michoacán, Morelos, Nuevo León, Oaxaca, Puebla, Sinaloa, Tlaxcala), USA (Bueno-Soria & Flint, 1978).
- Helicopsyche (Feropsyche) piroa* Ross, 1944  
Mexico (Chiapas, Hidalgo, Jalisco, Nuevo León, Oaxaca, Veracruz), Nicaragua, USA (Bueno-Soria, 2010a).
- Helicopsyche (Feropsyche) planata* Ross, 1956  
Mexico (Chiapas, Chihuahua, Durango, Michoacán, Nuevo León, Oaxaca, Veracruz), Nicaragua (Johanson, 2002; Razo-González, 2018).
- Helicopsyche (Feropsyche) selanderi* Ross, 1956  
Costa Rica, Mexico (Michoacán, Oaxaca, Tabasco), Venezuela (DGRU, 2023).
- Helicopsyche (Feropsyche) tuxtlensis* Bueno, 1983  
Guatemala, Mexico (Chiapas, Guerrero, Oaxaca, Veracruz), Panama (Johanson, 2002).
- Helicopsyche (Feropsyche) vergelana* Ross, 1956  
= *Helicopsyche (Feropsyche) margaritensis* Botosaneanu, 1959  
Belize, Brazil, Costa Rica, Grenada, Guatemala, Honduras, Mexico (Chiapas, Guerrero, Jalisco, Morelos, Nuevo León, Oaxaca, Tabasco, Veracruz), Nicaragua, Panama, Paraguay, Peru, Suriname, Tobago, Trinidad, Venezuela (Bueno-Soria y Flint, 1978).
- Helicopsyche (Feropsyche) villegasi* Denning & Bickle, 1979  
Mexico (Chihuahua, Durango, Estado de México, Oaxaca, Zacatecas) (Razo-González, 2018). Endemic to Mexico.
- According to available information on the geographic distribution of the species, 63 of them were identified as restricted to Mexico (10.47% of national richness) and 38 more as endemic to Oaxaca (17.51% the richness of the state). Several species have been recorded from 1 or 2 Mexican states, while others such as *P. aeaneus*, *H. borealis* and *C. laguna*, are widely distributed throughout the country and the continent, and have records from the 5 biogeographic provinces present in Oaxaca.

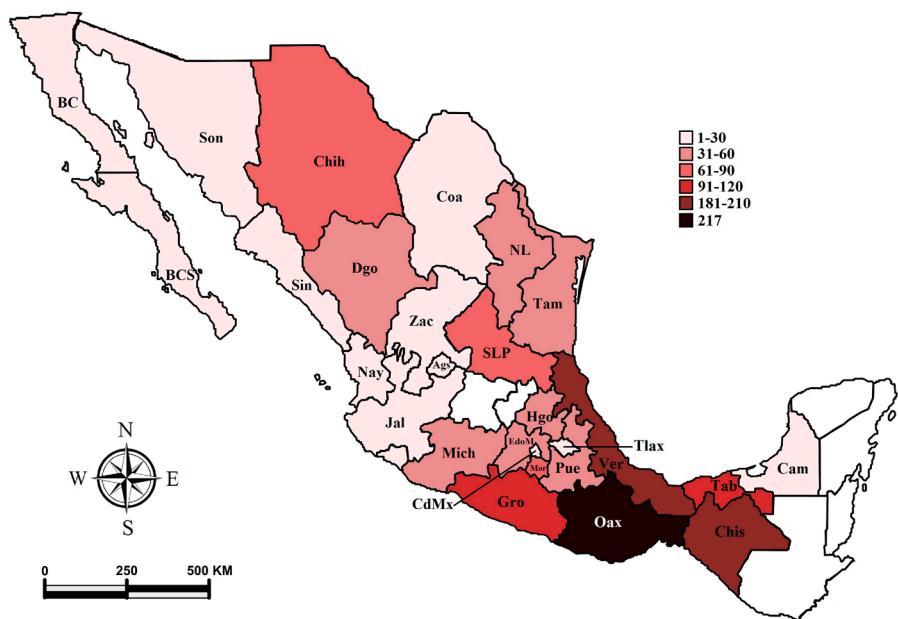


Figure 2. Distribution and species richness of Trichoptera into different Mexican states. Abbreviations were included in Table 3.

## Discussion

According to our study, the caddisfly fauna of the country is currently integrated by 17 families, 60 genera and 602 species, collected in 28 Mexican states. Our findings are based on an exhaustive literature review that included recently published works in which new species were described (Razo-González, 2018; Razo-González et al., 2021), and new distribution records were reported (Bueno-Soria et al., 2022; Razo-González, 2018; Razo-González et al., 2020, 2023). This work constitutes the most complete inventory of the Trichoptera richness from Oaxaca, which is represented by 216 species, including 9 new records for the state and ranks first in species richness with more than a third of the fauna of the country. Likewise, the high richness recorded for Trichoptera is comparable to that of other groups such as Alticinae beetles (Furth, 2013), Psocodea (García-Aldrete, 2014), the Coleoptera Tenebrionidae (Cifuentes-Ruiz & Zaragoza-Caballero, 2014), Dynastinae (Guzmán-Vázquez et al., 2021) and Staphylinidae (Navarrete-Heredia & Newton, 2014), which is evidence of the enormous richness of insects in the state. Both the enormous richness and the high percentage of endemism identified (47.69%) can be explained by the environmental heterogeneity present in Oaxaca, a state with a very complex physiography where more than 70% of the surface is covered by mountainous areas that promote the

presence of a wide variety of environmental conditions. In addition, the overlap of the Nearctic and Neotropical regions gives to Mexican Transition Zone complex characteristics at the geomorphological level as well as a great variety of climates and ecosystems that promote a high richness and the concurrence of species with different biogeographic affinities (Halfpter, 2017). In a biogeographical study carried out in the Sierra de Juárez, Oaxaca, it was determined that some species of Trichoptera have distribution ranges associated with the different regions mentioned above and many others are endemic to the same mountain range, whose territory constitutes a biodiversity “hot spot” (García-Aldrete, 2014; Razo-González et al., 2021).

The deficiency of fieldwork in this Mexican state was recognized, as well as in most of the northwestern region of the country, in the Baja California and Yucatán peninsulas (Fig. 2). Although there has been a significant increase in the number of species recorded in this study, the species accumulation curve over time shows that there are still more caddisfly species to be recorded (Fig. 3), and we are still far from reaching the asymptote.

Considering the environmental heterogeneity mentioned above and the need to carry out more fieldwork in Oaxaca, there is a high probability that the caddisfly richness in this state, as with other insect groups, will increase significantly if the region continues to be explored in the near future.

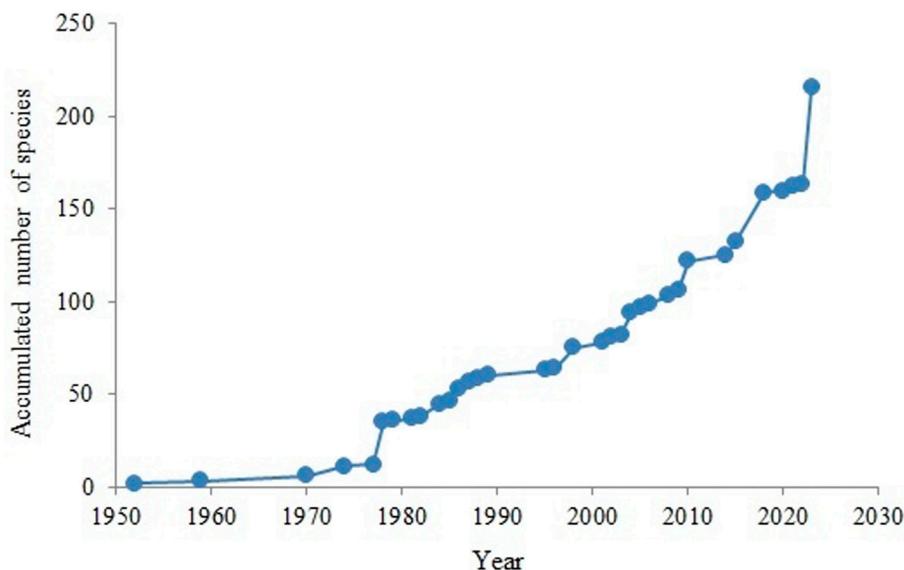


Figure 3. Species accumulation curve of Trichoptera along time in Oaxaca, Mexico.

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## References

- Arriaga, L., Espinoza-Rodríguez, J. M., Aguilar-Zúñiga, C., Martínez-Romero, E., Gómez-Mendoza, L., & Loa, E. (2000). *Regiones terrestres prioritarias de México*. Ciudad de México: Comisión Nacional para el Conocimiento y Uso de la Biodiversidad.
- Barba-Álvarez, R., & Bueno-Soria, J. (2005). New species of the genus *Polycentropus* Curtis (Trichoptera: Polycentropodidae) from Mexico. *Proceedings of the Entomological Society of Washington*, 107, 663–670.
- Blahnik, R. J. (1998). A revision of the Neotropical species of the genus *Chimarra*, subgenus *Chimarra* (Trichoptera: Philopotamidae). *Memoirs of the American Entomological Institute*, 59, 1–318.
- Blahnik, R. J., & Holzenthal, R. W. (2006). Revision of the genus *Culoptila* (Trichoptera: Glossosomatidae). *Zootaxa*, 1233, 1–52. <https://doi.org/10.11646/zootaxa.1233.1.1>
- Blahnik, R. J., & Holzenthal, R. W. (2008). Revision of the Mexican and Central American species of *Mortoniella* (Trichoptera: Glossosomatidae: Protoptilinae). *Zootaxa*, 1711, 1–72. <https://doi.org/10.11646/zootaxa.1711.1.1>
- Blahnik, R. J., & Holzenthal, R. W. (2014). Review and redescription of species in the *Oecetis avara* group, with the description of 15 new species (Trichoptera, Leptoceridae). *Zookeys*, 376, 1–83. <https://doi.org/10.3897/zookeys.376.6047>
- Bueno-Soria, J. (1981). Estudios en insectos acuáticos de México I. Trichoptera (Leptoceridae). Cinco nuevas especies de *Oecetis* McLachlan. *Folia Entomológica Mexicana*, 49, 103–120.
- Bueno-Soria, J. (1984). Estudios en insectos acuáticos II: revisión para México y Centroamérica del género *Hydroptila* Dalman, 1819 (Trichoptera: Hydroptilidae). *Folia Entomológica Mexicana*, 59, 79–138.
- Bueno-Soria, J. (1986). Estudios en insectos acuáticos VI: cinco nuevas especies de tricópteros de México y Costa Rica (Trichoptera: Hydropsychidae). *Folia Entomológica Mexicana*, 68, 53–65.
- Bueno-Soria, J. (1990). Estudios en insectos acuáticos VIII: revisión para México y Centroamérica del género *Polyplectropus* Ulmer (Trichoptera: Polyplectopidae). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoología*, 61, 357–404.
- Bueno-Soria, J. (2002). The genus *Metricchia* Ross (Trichoptera: Hydroptilidae) from Mexico. *Transactions of the American Entomological Society*, 128, 223–243.

- Bueno-Soria, J. (2009). A review of the genus *Ochrotrichia* Mosely (Trichoptera: Hydroptilidae) from Mexico and Central America. *Transactions of the American Entomological Society*, 135, 59–160. <https://doi.org/10.3157/061.135.0202>
- Bueno-Soria, J. (2010a). *Guía de identificación ilustrada de los géneros de larvas de insectos del orden Trichoptera de México*. Ciudad de México: Universidad Nacional Autónoma de México.
- Bueno-Soria, J. (2010b). Some new Trichoptera (Glossosomatidae, Hydroptilidae, Hydropsychidae and Polycentropodidae) from Mexico. *Proceedings of the Entomological Society of Washington*, 112, 22–31. <https://doi.org/10.4289/0013-8797-112.1.22>
- Bueno-Soria, J., & Barba-Álvarez, R. (2015). New species of *Plectropsyche* Ross 1947 (Trichoptera: Hydropsychidae: Hydropsychinae). *Zootaxa*, 4040, 421–432. <https://doi.org/10.11646/zootaxa.4040.4.2>
- Bueno-Soria, J., & Contreras-Ramos, A. (1986). Estudios en insectos acuáticos IV: descripción de tres nuevas especies de tricópteros del género *Lepidostoma* (Trichoptera: Lepidostomatidae) de México. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoología*, 56, 207–212.
- Bueno-Soria, J., & Flint, O. S. Jr. (1978). Catálogo sistemático de los tricópteros de México (Insecta: Trichoptera), con algunos registros de Norte, Centro y Sudamérica. *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoología*, 49, 189–218.
- Bueno-Soria, J., & Hamilton, S. W. (1986). Estudios en insectos acuáticos VI: cinco especies nuevas de tricópteros de México: (Trichoptera: Polycentropodidae; Hydroptilidae; Hydropsychidae). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoología*, 57, 299–310.
- Bueno-Soria, J., & Holzenthal, R. W. (1986). Estudios de insectos acuáticos V: descripción de tres nuevas especies de tricópteros de México: (Trichoptera: Philopotamidae). *Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoología*, 57, 137–144.
- Bueno-Soria, J., & Holzenthal, R. W. (2004). New species of the genus *Ochrotrichia* Mosely (Trichoptera: Hydroptilidae) from Mexico and Panama. *Transactions of the American Entomological Society*, 130, 245–269.
- Bueno-Soria, J., & Rojas-Ascencio, A. (2004). New species and distribution of the genus *Marilia* Müller (Trichoptera: Odontoceridae) in Mexico and Central America. *Proceedings of the Entomological Society of Washington*, 106, 679–696.
- Bueno-Soria, J., & Santiago-Fragoso, S. (1995). Descripción de una especie nueva del género *Protoptila* Banks (Trichoptera: Glossosomatidae) para México. *Folia Entomológica Mexicana*, 93, 87–90.
- Bueno-Soria, J., & Santiago-Fragoso, S. (1996). Studies in aquatic insects X: descriptions of five new species of the genus *Culoptila* Mosely (Trichoptera: Glossosomatidae) from México. *Proceedings of the Biological Society of Washington*, 109, 446–452.
- Bueno-Soria, J., Santiago-Fragoso, S., & Barba-Álvarez, R. (2001). Studies in aquatic insects, XVIII: new species and new record of caddisflies (Trichoptera) from Mexico. *Entomological News*, 112, 145–158.
- Bueno-Soria, J., Santiago-Fragoso, S., & Barba-Álvarez, R. (2004). More new Trichoptera from Mexico and Panama. *Transactions of the American Entomological Society*, 130, 479–486.
- Bueno-Soria, J., Vilarino, A., Barba-Álvarez, R., & Ballesteros-Barrera, C. (2022). Three new species of *Xiphocentron* Brauer, 1870 (Trichoptera, Xiphocentronidae) from Mexico. *ZooKeys*, 1111, 199–213. <http://doi.org/10.3897/zookeys.1111.73371>
- Chamorro, M. L., & Holzenthal, R. W. (2010). Taxonomy and phylogeny of New World *Polyplectropus* Ulmer, 1905 (Trichoptera: Psychomyioidea: Polycentropodidae) with the description of 39 new species. *Zootaxa*, 2582, 1–252. <https://doi.org/10.11646/zootaxa.2582.1.1>
- Cifuentes-Ruiz, P., & Zaragoza-Caballero, S. (2014). Biodiversidad de Tenebrionidae (Insecta: Coleoptera) en México. *Revista Mexicana de Biodiversidad*, 85, S325–S331. <https://doi.org/10.7550/rmb.31690>
- DGRU (Dirección General de Repositorios Universitarios). (2023). *Portal de datos abiertos UNAM, Colecciones universitarias*. Universidad Nacional Autónoma de México. Ciudad de México. Recovered on 09 March, 2023 from: <http://datosabiertos.unam.mx/>
- Flint, O. S. Jr. (1967). Studies of Neotropical caddis flies, VI: on a collection from northwestern Mexico. *Proceedings of the Entomological Society of Washington*, 69, 162–176.
- Flint, O. S. Jr. (1970). Studies of Neotropical caddisflies X: *Leucotrichia* and related genera from North and Central America (Trichoptera: Hydroptilidae). *Smithsonian Contributions to Zoology*, 60, 1–64. <https://doi.org/10.5479/si.00810282.60>
- Flint, O. S. Jr. (1974a). Studies of Neotropical caddisflies, XVII: the genus *Smicridea* from North and Central America (Trichoptera: Hydropsychidae). *Smithsonian Contributions to Zoology*, 167, 1–65. <https://doi.org/10.5479/si.00810282.167>
- Flint, O. S. Jr. (1974b). Studies of Neotropical caddisflies, XVIII: new species of Rhyacophilidae and Glossosomatidae (Trichoptera). *Smithsonian Contributions to Zoology*, 169, 1–30. <https://doi.org/10.5479/si.00810282.169>
- Flint, O. S. Jr. (1998). Studies of Neotropical caddisflies, LIII: a taxonomic revision of the subgenus *Curgia* of the genus *Chimarra* (Trichoptera: Philopotamidae). *Smithsonian Contributions to Zoology*, 594, 1–131. <https://doi.org/10.5479/si.00810282.594>
- Flint, O. S. Jr., & Bueno-Soria, J. (1979). Studies of Neotropical caddisflies, XXIV: the genus *Macronema* in Mesoamerica (Trichoptera: Hydropsychidae). *Proceedings of the Entomological Society of Washington*, 81, 522–535.
- Flint, O. S. Jr., McAlpine, J. F., & Ross, H. H. (1987). A revision of the genus *Leptonema* Guerin (Trichoptera: Hydropsychidae: Macromematinae). *Smithsonian Contributions to Zoology*, 450, 1–193. <https://doi.org/10.5479/si.00810282.450>

- Furth, D. G. (2013). Diversity of Alticinae in Oaxaca, Mexico: a preliminary study (Coleoptera, Chrysoelidae). *Zookeys*, 332, 1–32. <https://doi.org/10.3897/zookeys.332.4790>
- García-Aldrete, A. N. (2014). Biodiversidad de Psocoptera (Insecta: Psocodea) en México. *Revista Mexicana de Biodiversidad*, 85 (Suppl.), S252–S256. <https://doi.org/10.7550/rmb.34417>
- García-Mendoza, A. J., Ordóñez, D. M. J., & Briones-Salas, M. (2004). *Biodiversidad de Oaxaca*. Ciudad de México: Instituto de Biología, Universidad Nacional Autónoma de México/ Fondo Oaxaqueño para la Conservación de la Naturaleza-World Wildlife Fund.
- Guzmán-Vázquez, H. M., Sánchez-García, J. A., Hernández-Cruz, J., Rös, M., & Deloya, C. (2021). Los escarabajos Dinastinae (Coleoptera: Scarabeidae) de Oaxaca, México: lista actualizada de especies y análisis de su distribución. *Revista Mexicana de Biodiversidad*, 92, e923419. <https://doi.org/10.22201/ib.20078706e.2021.92.3419>
- Halfster, G. (2017). La zona de transición mexicana y la megadiversidad de México: del marco histórico a la riqueza actual. *Dugesiana*, 24, 77–89. <https://doi.org/10.32870/dugesiana.v24i2.6572>
- Harris, S. C., & Holzenthal, R. W. (1997). *Mexicanotrichia*, a new genus of microcaddisflies from Mexico and Guatemala (Trichoptera: Hydroptilidae). In R.W. Holzenthal & O.S. Jr. Flint (Eds.), *Proceedings of the 8th International Symposium on Trichoptera* (pp. 123–128). Columbus, Ohio: Ohio Biological Survey.
- Holzenthal, R. W. (1988a). Catalogo sistemático de los tricópteros de Costa Rica (Insecta: Trichoptera). *Brenesia*, 29, 51–82.
- Holzenthal, R. W. (1988b). Systematics of Neotropical *Triplectides* (Trichoptera: Leptoceridae). *Annals of the Entomological Society of America*, 81, 187–208. <https://doi.org/10.1093/aesa/81.2.187>
- Holzenthal, R. W. (1995). The caddisfly genus *Nectopsyche*: new *gemma* group species from Costa Rica and the Neotropics (Trichoptera: Leptoceridae). *Journal of the North American Benthological Society*, 14, 61–83. <https://doi.org/10.2307/1467725>
- Holzenthal, R. W., & Andersen, T. (2004). The caddisfly genus *Triaenodes* in the Neotropics (Trichoptera: Leptoceridae). *Zootaxa*, 511, 1–80. <https://doi.org/10.11646/zootaxa.511.1.1>
- Holzenthal, R. W., & Calor, A. R. (2017). Catalog of the Neotropical Trichoptera (Caddisflies). *Zookeys*, 654, 1–566. <https://doi.org/10.3897/zookeys.654.9516>
- Holzenthal, R. W., Blahnik, R. J., Prather, A. L., & Kjer, K. M. (2007). Order Trichoptera Kirby, 1813 (Insecta), Caddisflies. *Zootaxa*, 1668, 639–698. <https://doi.org/10.11646/zootaxa.1668.1.29>
- INEGI (Instituto Nacional de Estadística y Geografía). (2016). *Anuario estadístico y geográfico de Oaxaca 2016*. Oaxaca, México: Gobierno del Estado de Oaxaca/ Instituto Nacional de Estadística y Geografía.
- Johanson, K. A. (2002). Systematic revision of American *Helicopsyche* of the subgenus *Feropsyche* (Trichoptera, Helicopsychidae). *Insect Systematics & Evolution*, 60 (Suppl.), 1–147.
- Morrone, J. J., Escalante, T., & Rodríguez-Tapia, G. (2017). Mexican biogeographic provinces: map and shapefiles. *Zootaxa*, 4277, 277–279. <https://doi.org/10.11646/zootaxa.4277.2.8>
- Morse, J. C., Frandsen, P. B., Graf, W., & Thomas J. A. (2019). Diversity and ecosystem services of Trichoptera. *Insects*, 10, 125. <https://doi.org/10.3390/insects10050125>
- Morse, J. C. (2023). *Trichoptera world checklist*. Clemson University. South Carolina. Recovered on 06 March, 2023 from: <http://entweb.clemson.edu/database/trichopt/index.htm>
- Mosely, M. E. (1954). The *Protoptila* group of the Glossosomatinae (Trichoptera: Rhyacophilidae). *Bulletin of the British Museum (Natural History) Entomology*, 3, 317–346. <https://doi.org/10.5962/bhl.part.1056>
- Muñoz-Quesada, F. J., & Holzenthal, R. W. (2015). Revision of the Neotropical species of the caddisfly genus *Wormaldia* McLachlan (Trichoptera: Philopotamidae). *Zootaxa*, 3998, 1–138. <https://doi.org/10.11646/zootaxa.3998.1.1>
- Navarrete-Heredia, J. L., & Newton, A. F. (2014). Biodiversidad de Staphylinidae (Insecta: Coleoptera) en México. *Revista Mexicana de Biodiversidad*, 85 (Suppl.), S332–S338. <https://doi.org/10.7550/rmb.33488>
- Prather, A. L. (2003). Revision of the Neotropical caddisfly genus *Phylloicus* (Trichoptera: Calamoceratidae). *Zootaxa*, 275, 1–214. <https://doi.org/10.11646/zootaxa.275.1.1>
- Prather, A. L. (2004). Revision of the Neotropical caddisfly genus *Banyallarga* (Trichoptera: Calamoceratidae). *Zootaxa*, 435, 1–76. <https://doi.org/10.11646/zootaxa.435.1.1>
- Razo-González, M. (2018). Caddisflies (Insecta: Trichoptera) from Santa Catarina Lachatao, Oaxaca, México: new species, new geographical records, and checklist. *Zootaxa*, 4388, 22–40. <https://doi.org/10.11646/zootaxa.4388.1.2>
- Razo-González, M., Cataño-Meneses, G., Novelo-Gutiérrez, R., & Márquez, J. (2020). Preliminary evaluation of the nocturnal flight of caddisflies (Insecta: Trichoptera) in a temperate forest in Oaxaca, Mexico. *Aquatic Insects*, 41, 339–355. <https://doi.org/10.1080/01650424.2020.1797818>
- Razo-González, M., Novelo-Gutiérrez, R., Cataño-Meneses, G., & Márquez, J. (2023). *Atopsyche Banks* (Trichoptera: Hydrobiosidae) from Mexico: new species, redescription, and identification key. *Studies on Neotropical Fauna and Environment*, 58, 399–409. <https://doi.org/10.1080/01650424.2021.2007010>
- Razo-González, M., Novelo-Gutiérrez, R., Cataño-Meneses, G., & Márquez, J. (2023). Diversity and composition of caddisflies (Insecta: Trichoptera) along an elevation gradient in southeastern Mexico. *Diversity*, 15, 1–19. <https://doi.org/10.3390/d15010110>
- Ross, H. H. (1951). New American species of *Cernotina* (Trichoptera). *Revista de Entomología*, 22, 343–349.
- Ross, H. H. (1959). New species of *Chimarra* from Mexico and Central America (Trichoptera, Philopotamidae). *Entomological News*, 70, 169–178.

- Ross, H. H., & King, E.W. (1952). Biogeographic and taxonomic studies in *Atopsyche* (Trichoptera, Rhyacophilidae) *Annals of the Entomological Society of America*, 45, 177–204. <http://doi.org/10.1093/aesa/45.2.177>
- Ross, H. H., & Unzicker, J. D. (1977). The relationships of the genera of American Hydropsychinae as indicated by phallic structures (Trichoptera, Hydropsychidae). *Journal of the Georgia Entomological Society*, 12, 298–312.
- Schmid, F. (1982). La famille des Xiphocentronides (Trichoptera: Annulipalpia). *Memoires de la Société Entomologique du Canada*, 121, 1–126. <https://doi.org/10.4039/entm114122fv>
- Schmid, F. (1989). Les Hydrobiosides (Trichoptera, Annulipalpia). *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique, Entomologie*, 59 (Suppl.), 1–154.
- Springer, M. (2010). Trichoptera. *Revista de Biología Tropical*, 58, 151–198.
- Trejo, I. (2004). Clima. In A. J. García-Mendoza, M. J. Ordoñez, & M. Briones Salas (Eds.), *Biodiversidad de Oaxaca* (pp. 67–85). Ciudad de México: Instituto de Biología, UNAM/Fondo Oaxaqueño para la Conservación de la Naturaleza-World Wildlife Fund.
- Wiggins, G. B., & Wichard, W. (1989). Phylogeny of pupation in Trichoptera, with proposals on the origin and higher classification of the order. *Journal of the North American Benthological Society*, 8, 260–276.