

## NEW RECORDS OF PHLEBOTOMINE SAND FLIES (DIPTERA: PSYCHODIDAE) FROM NICARAGUA.

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### ABSTRACT

A study of *Lutzomyia* sand flies fauna was made in Nicaragua. 10 species were collected. *Lutzomyia (Viannamyia) caprina* Osorno-Mesa, Morales & Osorno, 1972 and *Lutzomyia (Pressatia) camposi* (Rodríguez, 1952), are reported for the first time in Nicaragua.

**KEY WORDS :** *Lutzomyia*, *L. caprina*, *L. camposi*, Nicaragua

### RESUMEN

Se realizó un estudio sobre la distribución del género *Lutzomyia* en Nicaragua, en el cual fueron capturadas 10 especies. Se reporta por primera vez en Nicaragua *Lutzomyia (Viannamyia) caprina* Osorno-Mesa, Morales & Osorno, 1972 y *Lutzomyia (Pressatia) camposi* (Rodríguez, 1952)

**PALABRAS CLAVES :** *Lutzomyia*, *L. caprina*, *L. camposi*, Nicaragua

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In 1995 we made a study of Psychodidae fauna of Nicaragua. We collected several specimens belonging to 10 species of genus *Lutzomyia* Faça, 1924, two of which, *Lutzomyia (Viannamyia) caprina* Osorno-Mesa, Morales & Osorno, 1972 and *Lutzomyia (Pressatia) camposi* (Rodríguez, 1952), are new records for Nicaragua. The role of these species in leishmaniasis transmission is unknown.

## MATERIAL AND METHODS

Samplings were made during January, February, March, October, November and December of 1995 in 20 localities. Sand flies were collected just in 10 localities, as follows:

### León province :

- 1- León suburbs: House with "garden". There were dogs and hens.
- 2- Carlos Canales: Disperse group of hut-houses near a pig farm.
- 3- El Fortín. Old and forlorn (but a family was living there) fortification.
- 4- Valle de las Zapatas: Disperse group of hut-houses with dogs, hens and cows.
- 5- Las Marías. A hut-house with yard where there were dogs, hens and cows.
- 6- Road León to Izapa: Near Trapiche river, a sown ground with some trees and shrubs.

### Matagalpa province :

- 7- Road Matagalpa to Jinotega, km 147.5: Tropical Cloud Forest.

### Región Autónoma del Atlántico Norte :

- 8- El Palomar: Tropical Rain Forest with banana trees, near a disperse village of huts.

### Río San Juan province :

- 9- El Castillo: Tropical Rain Forest near the town El Castillo.
- 10- Boca San Carlos: Tropical Rain Forest.

CDC ligh trap and Shannon ligh trap were used to collect the sand flies.

## RESULTS

A total of 79 specimens were collected (28 males, 51 females). The species collected were:

Species	Locality	Specimens	Date
<i>L. camposi</i> (Rodríguez)	Loc. 9	2 males	31/x/95
<i>L. caprina</i> Osorno-Mesa, Morales & Osorno, 1972	Loc. 7	1 male, 1 female	8/xii/95
<i>L. cayenensis</i> (Floch & Abonnenc, 1941)	Loc. 2	1 female	29/i/95
	Loc. 3	9 males, 8 females	30/i/95
	Loc. 3	1 female	23/xi/95
	Loc. 5	1 female	8/ii/95
<i>L. chiapanensis</i> (Dampf, 1947)	Loc. 5	1 female	8/ii/95
<i>L. geniculata</i> (Mangabeira, 1941)	Loc. 10	3 males, 10 females	30/x/95
<i>L. gomezii</i> (Nitzulescu, 1931)	Loc. 1	4 females	27/i/95.
	Loc. 8	1 female	23/xi/95
<i>L. longipalpis</i> (Lutz & Neiva, 1912)	Loc. 2.	2 males, 1 female	29/i/95
	Loc. 3	1 male,	30/i/95
	Loc. 4	1 male, 1 female	1/iii/95
	Loc. 5	4 males, 2 females	8/ii/95
	Loc. 6	2 females	28/i/95
	Loc. 10	1 male, 1 female	30/x/95
<i>L. panamensis</i> (Shannon, 1926)	Loc. 10	3 males, 8 females	30/x/95
<i>L. shannoni</i> (Dyar, 1929)	Loc. 7	1 female	22/iii/95
	Loc. 7	1 male, 6 females	8/xii/95
<i>L. vespertilionis</i> (Fairchild & Hertig, 1957)	Loc. 10	1 female	30/x/95

*Lutzomyia gomezi*, *L. panamensis* and *L. shannoni* were recorded by Fairchild and Herting in 1959. At Río San Juan province *L. geniculata* and *L. vespertilionis* have been reported by Zeledon & Murillo (1983). Le Pont et al. (1987) collected *L. longipalpis*. *L. cayenensis* and *L. chiapanensis* were recorded by Valle and Rivera (1995).

In this work, *L. caprina* and *L. camposi* are reported for the first time in Nicaragua. This was foregone, since both two species had been collected in Honduras and Costa Rica (Young & Duncan, 1994).

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