Pund.

more in in Anne

Rev. Brasil. Biol., 10 (2): 253-256 Julho, 1950 - Rio de Janeiro, D. F.

KEY FOR NEOTROPICAL "LEIA" MEIGEN, 1818 (Diptera, Mycetophilidae)¹

F. SHAW

Department of Entomology and Zoology, University of Massachussets, U.S.A.

J. LANE

Departamento de Parasitologia e Higiene Rural, Faculdade de Higiene e Saúde Pública da Universidade de S. Paulo, Brasil

The authors of this paper have, during the last few years, compiled a key for the species of *Leia*. One of the difficulties which they encountered was that they were not able to see all species described up to the present. Such being the case, a good number of them had to be inserted in the key by description. Such a course sometimes leads to error. They are fully aware of this and, for this reason, have marked with an asterisk the species which they have been able to study.

1.	Mesonotum mainly shining black, at most the	
	humeral angles are narrowly marked with yellow	n T
-	Mesonottim mainly yellowish or brownish, or else	
	vellowish with a blackish spot over the wing base	18
2 .	Scutellum with four marginal long bristles	3
-	Scutellum with only two marginal long bristles	4
3.	Ca.1 incomplete both at base and at tip	albicoxa Enderlein, 1911
-	Cu.1 incomplete only at base	disgrega Edwards, 1933
١.	Haltere with yellowish stem and black knob	5
_	Haltere completely yellowish	10
5.	Trochanter, at most, only darkened at tip and	
	underneath; hind femur might be dark	6
_	Frochanteres and basal two fifths of all femora	
	black	diversipes Edwards, 1933
6.	Last three antennal segments black	7
_	Last three antennal segments of female of the last	
	autennal segment of male white	3
7.	Without a median yellow line on the posterior third	
	ot mesonotum	nitens (Williston, 1896) apicalis (Kertesz, 1902)
-	A median vellow line present on the posterior third	•
	of mesonotum and extending anteriorly from the	
	scuteilum . ,	paulensis Edwards, 1933*
_	<u>-</u>	

Received for publication February 23, 1950

Scutellum black; abdomen entirely shining black Scutellum yellow; abdomen with complete basal	9
yellow bands on tergites II to IV; mesonotum often	
with a median yellow line on the posterior third	paranensis Edwards, 1933*
9. Thorax covered with black pile and setae; front and middle femora, coxae and trochanteres veilow; distal	
wing spot entirely filling the fork of media	leucocera Edwards, 1933
- Thorax covered with yellow pile and setae: front	
and middle femora with apical black spots; distal	
wing spot not filling fork of media	aruaci Lane, 1950*
10. Last antennal segments blackish	11
- Last antennal segment of male and the last three	
segments of female white	monoleuca Edwards, 1933*
11. Head and scutelium yellow	12
 One or the other of these regions brown or blacs 	13
12. Abdomen black except for the yellow sixth segment	cincticanda Enderlein, 1911
- Abdomen with the posterior fifth of tergite I and	
the anterior half of II yellow	collariger Enderlein, 1911
13. Wing unicolorous; scutellum veilow or with veilow	
markings	14
 Wing hyaline with blackish spots; scutellum black 	16
14. Mesonotum black	15
- Mesonotum with two very narrow vellow lines which	
divide it in three portions; head black in front	
and yellow behind; scutellum yellow	amabilis (Williston, 1900)*
15. Flagellum unicolorous; trochanteres dusky; mid and	amantas (Vitasion, 1999)
hind femora with black edges; center of scuteihum	
black but the sides yellow	circumiera Fisher, 1939*
- First four flagellar segments yellowish, chiefly on	(incumpera Fisher, 1939
the underside, the rest blackish; trochanters and	
femora yellow; scutellum yellowish	guayeurusi Lane, 1950*
and the remaining the apex of thing	17
 Vein M.3 abbreviated as well as Cu.1; spot on median cell over less than half its distal portion; 	
femora yellowish	
	apinagei Lane. 1950*
 Mid and hind femora blackish; spot at apex of wing covering two thirds of the median cell 	
Mid and hind femur blackish on basal two thirds.	picticornis (Kertesz, 1902)*
the apical one yellowish; spot on median cell	
covering its whole surface	
	caiapoi Lane, 1950*
 Posterior half or two thirds of thorax black or dark brownish, the anterior half or third yellow 	**
	19
- Thoracic markings not as above	21
and all all all all all all all all all al	
portions	20
- Wing not marked, M.3 and Cu.1 not reaching	
margin; Cu.1 free at both ends; scutellum yellow 20. Scutellum black	biamputata Edwards, 1935*
	bipartita Arribaizaga, 1890
- Scutellum yellow	flavoscustellata Arribalzaga, 1890

21.	Both veins Cu.1 and M.3 abbreviated at tip	22
_	Either Cu.1 or M.3 may be abbreviated but not	
	both of them	27
22.	Scutellar bristles two	23
-	Scutellar britles four: first 6-8 flagellar segments	
	light at base, darker apically	smithi Edwards, 1933
23.	Mesonotum with a black spot at wing base	24
-	Mesonotum without such a spot at wing base	26
24.	Black spot at wing base minute or faintly colored	25
-	Black spot at wing base large and distinct; coxae	
	and trochanters with black spots but mid and hind	axillipunctum Enderlein, 1911*
	femora lacking black spots	
25.	Legs yellow	costaricensis Fisher, 1940*
-	All femora brown at base	truncatovenosa Enderlein, 1911
26.	Scutellum black: abdomen with tergite VI entirely	Contract Edwards 1000
	Scutellum vellow; abdomen with tergite VI black or	nigricauda Edwards, 1933
_	brown only on the basal half	biamputata Edwards, 1933*
27.	Mesonotum with two or three black longitudinal	t .
	stripes	28
_	Mesonotum lacking conspicuous black longitudinal	
	stripes	31
28.	Mesonotum with three dark longitudinal stripes	29
-	Mesonotum with two longitudinal stripes or elongate	
	marks	30
29.	Mid and hind coxae blackish; front coxae pale	
	vellow	antarctica Bigot, 1888
-	All coxae pale vellowish; anterior surface may be	Delle-i tocs
	brownish	poeciloptera Philippi, 1865
30.	Wing with one or more dark spots	bilunula Wiedeman, 1828*
-	Wing completely darkened	junai Lane. 1950*
31.	Neither M.3 or Cu.1 abbreviated at tip	32 38
_	M.3 or Cu.1 may be abbreviated at tip	36
32.	Pleurotergite dark-brown or black, at least partially; anepisternite may also be black	33
	Pleurae vellow	36
-	*	34
33.	Anepisternite yellow	35
_	Anepisternite black	
34.	Wing with a pre-apical band	fasciata (Kertesz, 1902)*
_	Wing with an apical hand	fisherae Shaw, 1950*
35.	Last segments of antenna blackish as the adjacent	falculata Edwards, 1933*
		intellined Limited 1999
-	Last two or three segments of antenna of female white	andirai Lane. 1950°
36.	Mesonotum with a spot over the root of wing	37
_	Mesonotum without such a spot but unicolorous	concinna Williston, 1896;*
	•	

F. SHAW and J. LANE

256

37.	Coxae and trochanters with a black spot on under-	
	side	halterata (Kertesz, 1902)*
	Coxae and trochanters without such a black spot	
	on the underside	bivittata Say, 1829
38.	Cu.I abbreviated at tip	39
-	Cu.1 not abbreviated at tip	42
39.	Parameres straight, daggerlike	40
-	Parameres shaped like a human foot and ankle	pedifer Edwards, 1933
40.	Parameres not extending beyond genitalia	41
_	Parameres extend beyond genitalia as daggerlike	
	spines	spinifer Edwards, 1933
41.	Style small, sickle shaped	incompleta Edwards, 1933
-	Style long, slender, curved inwards on the outer	
	third	setosicauda Edwards, 1933
42.	Scutellum with two strong bristles	43
_	Scutellum with four strong bristles	45
43.	Hypopleura black	44 ,
_	Hypopleura yellow	nigrospleniata (Arribalzaga, 1892
44.	Sternopleura yellowish	schmidti Fisher, 1939*
_	Sternopleura blackish	elegans (Kertesz, 1902)*
45.	Mesonotum with spots over the wing roots	46
_	Mesonotum and pieurae unspotted; abdomen yellow	
	with distal black triangles; scutellar bristles four	oblectabilis (Loew, 1869)*
46.	Pteropleurites and pleurotergites black	47
_	Such sclerites yellow, the pleurotergites might be	
	dark brown	48
47.	Mesonoral spot divided by a yellow line	bipunctata Fisher, 1949
-	Mesonotal spot undivided	completa (Kertesz, 1902)
48.	Pleurotergite yellow	diversicornis (Kertesz, 1902)*
_	Pleurotergites dark-brown	schnusei Edwards, 1935.

We have been unable to include the following species in our key: Leia interrupta (Kertesz, 1902) and Leia muchtleri Twinn and Curran, 1928.