

Adicional file 1 - Morphological characters for distinction between *Culex univittatus* and *Cx. perexiguus*, adapted from Jupp (1971), White (1975), and Harbach (1985, 1988).

Character	Species	
	<i>Culex univittatus</i> Theobald, 1901	<i>Culex perexiguus</i> Theobald, 1903
I. Ventral surface of proboscis	<ul style="list-style-type: none"> • pale in middle 	<ul style="list-style-type: none"> • pale except at base • weakly pale on distal 0.25
II. Postspiracular area	<ul style="list-style-type: none"> • tendency for scales to cover less than dorsal 0.5 	<ul style="list-style-type: none"> • tendency for scale to cover more than dorsal 0.5
III. Forefemur	<ul style="list-style-type: none"> • sometimes with indistinct anterior pale stripe 	<ul style="list-style-type: none"> • usually with indistinct anterior pale stripe
IV. Midfemur	<ul style="list-style-type: none"> • with complete distinct or indistinct anterior pale stripe 	<ul style="list-style-type: none"> • with or without incomplete faint or distinct anterior pale stripe
V. Hindfemur	<p>proportion of the length of femur occupied by the dorso-anterior black stripe or “femoral index” (R)</p> <ul style="list-style-type: none"> • $R \geq 80\%$ 	<ul style="list-style-type: none"> • $R \leq 70\%$
VI. Hindtibia	<ul style="list-style-type: none"> • with distinct anterior and posterior pale stripes on proximal 0.8, separated ventrally by complete dark stripe; • with distinct apical pale spot 	<ul style="list-style-type: none"> • with distinct anterior and posterior pale stripes on proximal 0.8, partly separated on proximal 0.5 or less by weak ventral dark stripe; • with distinct apical pale spot
VII. Wing		
a. Costa	<ul style="list-style-type: none"> • with short line of pale scales at base 	<ul style="list-style-type: none"> • with short line of pale scales at base
b. Vein 2A	<ul style="list-style-type: none"> • female usually with line of scales 	<ul style="list-style-type: none"> • female occasionally with few scales
VIII. Male genitalia		
a. Seta <i>g</i>	<ul style="list-style-type: none"> • narrow, “leaflet index” $R1 = \text{width/length} * 100 \leq 50\%$ 	<ul style="list-style-type: none"> • broad, “leaflet index” $R1 = \text{width/length} * 100 \geq 50\%$
b. Seta <i>f</i>	<ul style="list-style-type: none"> • tip narrow/unswollen 	<ul style="list-style-type: none"> • tip narrow/unswollen
c. Ventral arm	<ul style="list-style-type: none"> • longer than width of lateral plate at point of attachment 	<ul style="list-style-type: none"> • shorter than width of lateral plate at point of attachment