

The Occurrence of *Aedes hendersoni* Cockerell
and *Aedes triseriatus* (Say) in Manitoba

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ABSTRACT. The occurrence of *Aedes triseriatus* in Manitoba is confirmed. *Aedes triseriatus* outnumbered *Ae. hendersoni* in collections of eggs and larvae from tree holes at or near ground level.

Aedes triseriatus (Say) was originally reported from Manitoba by Brust and Kalpage (1967). The adults reared by Brust and Kalpage (1967) were later identified as *Aedes hendersoni* Cockerell (Brust 1979). Wood et al. (1979) concluded that, in Canada, *Ae. triseriatus* did not occur west of Ontario.

In this note we confirm the presence of *Ae. triseriatus* in Manitoba, from numerous collections made in 1982 (Table 1).

During December 1981, eggs were collected on pieces of wood and bark from tree holes in elm (*Ulmus americana*) found in the Winnipeg area. The eggs were stored at 5 C. until they were hatched in March 1982. The subsequent larvae were identified as *Ae. hendersoni* and *Ae. triseriatus*. During the spring and summer of 1982, eggs and larvae of *Ae. hendersoni* and *Ae. triseriatus* were collected from tree holes in elm trees along the Assiniboine and Red Rivers in the Winnipeg area (Table 1). The tree holes ranged from ground level to 0.75 m. in height. The number of *Aedes triseriatus* exceeded *Ae. hendersoni* in all of the collections in which counts were made except on 19 May 1982 (Table 1). *Aedes triseriatus* is known to have a strong preference for oviposition at ground level, while *Ae. hendersoni* prefers to oviposit at canopy levels (Scholl and DeFoliart 1977; Sinsko and Grimstad 1977). Since all of the tree holes in our study were below 0.75 m., we would expect a preponderance of *Ae. triseriatus*.

In conclusion, *Ae. triseriatus* occurs in Manitoba and it would appear to exceed *Ae. hendersoni* in tree holes at or near ground level.

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Table 1. Proportion of *Aedes triseriatus* and *Aedes hendersoni* in egg and larval collections from tree holes in the Winnipeg area.

Date	Stage collected	Water temperature (°C)	n ⁽¹⁾	<i>Aedes triseriatus</i> (%)	<i>Aedes hendersoni</i> (%)
20 Apr./82	egg, 1st	-(2)	206	71	29
29 Apr./82	egg	-	122	58	42
19 May/82	egg	-	22	0	100
2 June/82	egg	-	66	67	33
27 July/82	2nd, 3rd, 4th ⁽³⁾	18	29	76	24
10 Aug./82	3rd, 4th, pupa ⁽³⁾	13	153	79	21
			Average	58.5	41.5

(1) Number of larvae collected, or number of larvae collected after hatching of eggs.

(2) Water partly frozen.

(3) *Culex restuans* also present.