

# Carry-over effects of larval microclimate on the transmission potential of a mosquito-borne pathogen

Michelle V. Evans, Justine C. Shiau, Nicole Solano, Melinda A. Brindley, John M. Drake,  
Courtney C. Murdock

Supplemental Tables

Table 1: **Supplemental Table 1.** Mean  $\pm$  s.e. of climate metrics across season and land class. Superscripts represent significant differences within a season as measured by pair-wise comparisons using Tukey multiple comparisons of means, adjusting for significance with the Holm-Bonferroni method.

	Summer			Fall		
	Rural	Suburban	Urban	Rural	Suburban	Urban
Min. Temperature	$21.69 \pm 0.23^a$	$21.99 \pm 0.32^a$	$22.69 \pm 0.33^a$	$11.07 \pm 0.33^a$	$12.23 \pm 0.47^{ab}$	$13.32 \pm 0.47^b$
Mean Temperature	$25.41 \pm 0.16^a$	$25.36 \pm 0.22^a$	$26.30 \pm 0.23^b$	$17.87 \pm 0.23^a$	$18.11 \pm 0.33^a$	$19.28 \pm 0.33^b$
Max. Temperature	$31.39 \pm 0.49^a$	$30.86 \pm 0.68^a$	$31.41 \pm 0.71^a$	$27.52 \pm 0.37^a$	$26.58 \pm 0.53^a$	$26.87 \pm 0.55^a$
DTR	$9.82 \pm 0.55^a$	$8.86 \pm 0.76^a$	$8.75 \pm 0.79^a$	$16.46 \pm 0.57^a$	$14.35 \pm 0.80^a$	$13.58 \pm 0.82^b$
Min. Relative Humidity	$73.59 \pm 1.84^{ab}$	$76.29 \pm 2.55^b$	$66.48 \pm 2.67^a$	$47.81 \pm 1.75^a$	$48.84 \pm 2.45^a$	$44.28 \pm 2.52^a$
Mean Relative Humidity	$93.80 \pm 1.04^a$	$94.77 \pm 1.45^a$	$87.52 \pm 1.51^b$	$80.84 \pm 1.52^a$	$80.41 \pm 2.14^a$	$71.58 \pm 2.17^b$
Max. Relative Humidity	$99.97 \pm 0.84^a$	$99.97 \pm 1.31^a$	$98.09 \pm 1.37^a$	$99.33 \pm 1.25^a$	$98.92 \pm 1.75^a$	$92.07 \pm 1.78^b$
DHR	$26.37 \pm 2.00^{ab}$	$23.69 \pm 2.77^b$	$31.62 \pm 2.90^a$	$51.51 \pm 1.89^a$	$50.09 \pm 2.65^a$	$47.79 \pm 2.73^a$

Season	Land Class	No. tested	No. infected (%)	No. disseminated (%)	No. infectious (%)
<i>Summer</i>					
	Rural	56	22 (39)	19 (48)	6 (15)
	Suburban	57	32 (56)	26 (81)	10 (31)
	Urban	51	10 (20)	10 (100)	7 (70)
<i>Fall</i>					
	Rural	50	32 (64)	30 (94)	3 (9)
	Suburban	43	28 (65)	25 (89)	3 (11)
	Urban	51	10 (20)	10 (100)	7 (70)

Table 2: **Supplemental Table 2.** The efficiency rates of infection (mosquitoes with dengue positive bodies), dissemination (infected mosquitoes with dengue positive heads) and infectiousness (infected mosquitoes with dengue positive saliva) across season and land class. Raw numbers of positive samples are shown with percentages in parentheses.