**Additional file 1. Relative rates for capturing female *Culex* spp.** **stratified by district.** Catch rate (relative to HLC indoor) and 95% confidence interval were calculated using negative binomial regression models. Within each district (column), trap catch rates statistically different from HLC indoor (p<0.05) are indicated in bold. Across each trap type (row), different letters denote relative capture rates varying significantly (p<0.05) between districts.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Trapping method | Rarieda | Kisumu West | Nyando | Rachuonyo |
| HLC indoor | 1.00\* | 1.00\* | 1.00\* | 1.00\* |
| HLC outdoor | 0.88 (0.61, 1.28)a | **1.76 (1.19, 2.60)**b | 1.08 (0.94, 1.24)a | **2.95 (2.64, 3.29)**c |
| CDC light trap | **0.16 (0.04, 0.76)**a | **0.24 (0.16, 0.37)**a | **0.22 (0.20, 0.24)**a | **0.24 (0.14, 0.42)**a |
| Ifakara Tent Trap | 0.76 (0.35, 1.66)a | 0.28 (0.07, 1.09)a,b | **0.11 (0.08, 0.16)**b | **0.34 (0.20, 0.57)**a |
| Window exit trap | **0.05 (0.01, 0.43)**a,b | **0.06 (0.04, 0.10)**a | **0.04 (0.03, 0.05)**a | **0.16 (0.08, 0.31)**b |
| Pot resting trap indoor | 0.00# | 0.00# | **0.01 (0.01, 0.01)**a | **0.02 (0.00, 0.16)**a |
| Pot resting trap outdoor | 0.00# | **0.02 (0.01, 0.09)**a,b | **0.01 (0.01, 0.02)**a | **0.07 (0.04, 0.11)**b |
| Box resting trap indoor | 0.00# | **0.01 (0.00, 0.07)**a | **0.01 (0.00, 0.01)**a | 0.00# |
| Box resting trap outdoor | 0.00# | 0.00# | **0.02 (0.01, 0.03)**a | **0.01 (0.00, 0.02)**a |

\* Reference collection method within each district

# Trap types that captured zero females were excluded from the model for that district