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| **Table S8**. Top competing models (∆ AICc < 2) to predict the presence of *Aedes aegypti* pupae. Significant parameters (*P* ≤ 0.05) in bold. |
| **Pre-rainy season** | AICc | Weight | ∆ AICc |
| 1 | Pupae1 ~ 1 + **renters + family3** + old\_fam + **piped\_inside + store3 + badpatio** | 41.911 | 0.058 | 0.000 |
| 2 | Pupae1 ~ 1 + fem\_head + renters + **family3** + old\_fam + **piped\_inside** + lowshade + **store3** + badpatio | 42.149 | 0.052 | 0.238 |
| 3 | Pupae1 ~ 1 + fem\_head + renters + **family3** + old\_fam + **piped\_inside + store3** + badpatio | 42.695 | 0.039 | 0.785 |
| 4 | Pupae1 ~ 1 + **renters + family3 + piped\_inside + store3 + badpatio** | 42.782 | 0.038 | 0.871 |
| 5 | Pupae1 ~ 1 + **renters + family3 + piped\_inside** + lowshade + **store3 + badpatio** | 42.928 | 0.035 | 1.017 |
| 6 | Pupae1 ~ 1 + renters + **family3** + old\_fam + **piped\_inside** + lowshade + **store3 + badpatio** | 42.929 | 0.035 | 1.018 |
| 7 | Pupae1 ~ 1 + fem\_head + renters + **family3 + piped\_inside** + lowshade + **store3 + badpatio** | 42.958 | 0.034 | 1.047 |
| 8 | Pupae1 ~ 1 + renters + **family3 +** old\_fam + **piped\_inside + store3** | 43.619 | 0.025 | 1.709 |
| 9 | Pupae1 ~ 1 + fem\_head + pplrm + **renters + family3** + old\_fam + **piped\_inside** + lowshade + **store3** + badpatio | 43.839 | 0.022 | 1.928 |
| **Rainy season** |  |  |  |
| 1 | Pupae2 ~ 1 + **mosq\_right** + older\_fam + **store3 + badpatio + badhouse** + central\_area | 85.475 | 0.056 | 0.000 |
| 2 | Pupae 2 ~ 1 + **mosq\_right** + store3 + **badpatio + badhouse** | 85.525 | 0.055 | 0.050 |
| 3 | Pupae2 ~ 1 + **mosq\_right** + grave + **store3 + badpatio + badhouse** | 85.561 | 0.054 | 0.086 |
| 4 | Pupae2 ~ 1 + **mosq\_right** + older\_fam + **store3 + badpatio + badhouse** | 85.918 | 0.045 | 0.443 |
| 5 | Pupae2 ~ 1 + **mosq\_right** + store3 + **badpatio + badhouse** + central\_area | 86.152 | 0.040 | 0.677 |
| 6 | Pupae2 ~ 1 + **mosq\_right** + grave + older\_fam + **store3 + badpatio** + badhouse | 86.299 | 0.037 | 0.824 |
| 7 | Pupae2 ~ 1 + **mosq\_right** + grave + older\_fam + **store3** + badpatio + badhouse + central\_area | 86.386 | 0.036 | 0.911 |
| 8 | Pupae2 ~ 1 + **mosq\_right** + grave + **store3 + badpatio + badhouse** + central\_area | 86.577 | 0.032 | 1.102 |
| 9 | Pupae2 ~ 1 + **mosq\_right + badpatio + badhouse** | 86.960 | 0.027 | 1.485 |
| 10 | Pupae2 ~ 1 + **store3 + badpatio + badhouse** | 87.240 | 0.023 | 1.765 |
| 11 | Pupae2 ~ 1 + **mosq\_right + older\_fam + store3 + badpatio** + central\_area | 87.347 | 0.022 | 1.872 |
| **Post-rainy season** |  |  |  |
| 1 | Pupae3 ~ 1 + deng\_problem + **family1 + alwayswater + store3** | 34.147 | 0.390 | 0.000 |
| 2 | Pupae3 ~ 1 + **deng\_problem + family1 + alwayswater + store3** + goodhouse | 35.454 | 0.203 | 1.307 |
| 3 | Pupae3 ~ 1 + deng\_problem + **family1 + alwayswater + store3** + central\_area | 35.927 | 0.160 | 1.780 |
| **Parameter** | **Abbreviation** |
| Female head of household | fem\_head |
| Average age of the family 35-64 | older\_fam |
| Average age of the family >65 | old\_fam |
| One independent household residing on the property | family1 |
| Three or more independent households residing on the property | family3 |
| Renters present on the property | renters |
| Piped water inside the home | piped\_inside |
| Constant access to the household piped water supply | alwayswater |
| Water storage: Cist/ET & do store | store3 |
| Knowledge of mosquito habitat | mosq\_right |
| Dengue is a problem | deng\_problem |
| Low proportion of the patio area shaded | lowshade |
| Bad patio condition | Badpatio |
| Bad house condition | badhouse |
| Good house condition | goodhouse |
| Household located in the central area  | central\_area |