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| **Table 2: Negative Binomial Model of the Ratio of Eggs Laid Per Week Per Female Insect** | | |
| **Variables** | **Ratio of Eggs Laid Per Week (95% CI)** | **P-Value** |
| Intercept | 111.081 ( 82.577 - 150.511 ) | 1.93x10-185 |
| Infected | 1.734 ( 1.464 - 2.052 ) | 5.81 x10-11 |
| Temperature and Humidity Principal Component 1 (PC1) | 0.771 ( 0.712 - 0.834 ) | 7.94 x10-12 |
| PC2 | 0.506 ( 0.416 - 0.615 ) | 1.76 x10-12 |
| PC3 | 0.576 ( 0.324 - 1.039 ) | 0.02 |
| Repetition 1 | 0.253 ( 0.174 - 0.366 ) | 2.95 x10-12 |
| Repetition 2 | 0.195 ( 0.124 - 0.308 ) | 7.54 x10-11 |
| Theta | 1.55 | - |
| 2x Log Likelihood | -4181 | - |
| AIC | 4198 | - |

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| **Table 2: Negative Binomial Model of the Ratio of Eggs Laid Per Week Per Female Insect** | | | | |
| **Variables** | **Raw Estimate** | **Std. Error** | **Ratio of Eggs Laid Per Week (95% CI)** | **P-Value** |
| Intercept | 4.710262 | 0.162 | 111.081 ( 82.577 - 150.511 ) | 1.93x10-185 |
| Infected | 0.550717 | 0.084 | 1.734 ( 1.464 - 2.052 ) | 5.81 x10-11 |
| Temperature and Humidity Principal Component 1 (PC1) | -0.26024 | 0.038 | 0.771 ( 0.712 - 0.834 ) | 7.94 x10-12 |
| PC2 | -0.68204 | 0.097 | 0.506 ( 0.416 - 0.615 ) | 1.76 x10-12 |
| PC3 | -0.5523 | 0.237 | 0.576 ( 0.324 - 1.039 ) | 0.02 |
| Repetition 1 | -1.37404 | 0.197 | 0.253 ( 0.174 - 0.366 ) | 2.95 x10-12 |
| Repetition 2 | -1.6332 | 0.251 | 0.195 ( 0.124 - 0.308 ) | 7.54 x10-11 |
| Theta | 1.55 | 0.109 | - | - |
| 2x Log Likelihood | -4181 | - | - | - |
| AIC | 4198 | - | - | - |