**Brazil *An. darlingi* life history information**

Independent variables

* Temperature [ 20, 24, 28C]- Ordinal (Temp\_let, concern Temp\_num is continuous?)
* Sex [M/F]- Categorical

Factors

* Biome [Amazon, Cerrado, Mata Atlantica]- Categorical/nominal
  + State [Amazonas, Rondonia, Tocantins, Mata Atlantica]-Ordinal
  + Locality [ARS, APR, RPV, RMO, TLC, TPN, SJU]-Ordinal
  + Latitude [-2.864, -3.028, -8.742, -9.223, -10.7, -10.796, -22.611 ]- Ordinal
* Family [for lab reared, which female within the biome/locality they came from]- Categorical
  + Well grouping [1,2,3]- Ordinal (5 larvae raised in each of 3 wells per female per temperature)

Dependent variables

* Death status (0,1) – Ordinal 0=died preadult, 1= died as adult
* LL- Larvae life length (days)- Discrete, all
* sLL- Larvae life length (days)- Discrete, only ones that went to adult
* PL- Pupal life length (days)- Discrete (Emergence.date-pupation.date)
* AL- Adult life length (days)- Discrete (Deathtime-Emergence.date)
* EmTime- time to emergence (Emergence.date-Hatch.day)
* Wing length (mm)- Continuous
* Rate of development (proportion)
  + Larvrate- 1/(days as larvae)
  + Puprate- 1/(days as pupae)
  + Adrate- 1/(days from hatch to adult emergence)

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| --- | --- | --- | --- | --- | --- | --- |
| **Treatment- 20°** | | | | | | |
| Locality | N experiment | Died pre-adult | % immature death | N to adult | # Females | # Males |
| ARS | 150 | 11 | 7.33% | 134 | 65 | 69 |
| APR | 225 | 20 | 8.89% | 198 | 88 | 110 |
| RPV | 225 | 38 | 16.89% | 181 | 89 | 92 |
| RMO | 225 | 31 | 13.78% | 192 | 102 | 90 |
| TLC | 120 | 29 | 24.17% | 91 | 45 | 46 |
| TPN | 60 | 27 | 45.00% | 32 | 18 | 14 |
| SJU | 165 | 31 | 18.79% | 129 | 66 | 63 |
|  |  |  |  |  |  |  |
| **Treatment- 24°** | | | | | | |
| Locality | N experiment | Died pre-adult | % immature death | N to adult | # Females | # Males |
| ARS | 150 | 8 | 5.33% | 135 | 57 | 78 |
| APR | 220 | 19 | 8.64% | 198 | 101 | 97 |
| RPV | 225 | 40 | 17.78% | 184 | 98 | 86 |
| RMO | 225 | 26 | 11.56% | 197 | 96 | 101 |
| TLC | 120 | 34 | 28.33% | 84 | 41 | 43 |
| TPN | 55 | 20 | 36.36% | 35 | 15 | 20 |
| SJU | 165 | 36 | 21.82% | 123 | 57 | 66 |
|  |  |  |  |  |  |  |
| **Treatment- 28°** | | | | | | |
| Locality | N experiment | Died pre-adult | % immature death | N to adult | # Females | # Males |
| ARS | 150 | 16 | 10.67% | 130 | 54 | 76 |
| APR | 220 | 32 | 14.55% | 179 | 85 | 94 |
| RPV | 225 | 82 | 36.44% | 141 | 65 | 76 |
| RMO | 225 | 62 | 27.56% | 160 | 82 | 78 |
| TLC | 120 | 49 | 40.83% | 71 | 27 | 44 |
| TPN | 60 | 36 | 60.00% | 24 | 10 | 14 |
| SJU | 165 | 132 | 80.00% | 33 | 16 | 17 |