Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Pods ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Pods: 2021 | Family | 0.792 | 66.063 | 46.310 | 1 | **<0.001** |
| Population | 1.469 | 74.259 | 0.008 | 1 | 0.464 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pods: 2021 | Block | 8.835 | **0.032\*** |
| Subtransect | 0.962 | 0.327 |
| Distance to City Center | 5.518 | **0.019\*** |
| Subtransect x Distance to City Center | 1.380 | 0.24 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Pods ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Pods: 2021 | Family | 0.831 | 67.131 | 46.134 | 1 | **<0.001** |
| Population | 1.514 | 74.824 | 0.032 | 1 | 0.429 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Pods: 2021 | Block | 8.596 | **0.035\*** |
| Subtransect | 1.041 | 0.308 |
| Urbanization Score | 2.510 | 0.113 |
| Subtransect x Urbanization Score | 2.399 | 0.121 |