**Table 1**: Heritable genetic variation associated with urbanization and a green corridor

*Model: Trait ~ (1 | Population/Family) + Block + Urbanization\*Transect*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Genetic variation within/among URBAN populations** | | | | | | | | | | | |
| Urbanization = Distance to City Center | | | | | | Urbanization = Urbanization Score | | | | | |
| Population | | | Family | | | Population | | | Family | | |
| χ² | *p* | PVE | χ² | *p* | PVE | χ² | *p* | PVE | χ² | *p* | PVE |
| ***Growth traits*** | | | | | | | | | | | | |
| Height before flowering | 0 | 0.5 | 0 | 7.886 | **0.0025** | 10.055 | 0.102 | 0.375 | 0.7 | 7.619 | **0.003** | 10.179 |
| Height after flowering | 0 | 0.5 | 0 | 7.154 | **0.0035** | 9.027 | 0.05 | 0.411 | 0.485 | 7.029 | **0.004** | 9.265 |
| LDMC | 0.05 | 0.4115 | 0.413 | 0.011 | 0.459 | 0.439 | 0.211 | 0.323 | 0.888 | 0.013 | 0.454 | 0.492 |
| Mortality\* | 0 | 0.5 | 1.067 | 3.952 | **0.0235** | 7.163 | 0 | 0.5 | 0.923 | 3.965 | **0.023** | 7.079 |
| Ramets before flowering\* | 0 | 0.5 | 0.165 | 52.455 | **<0.001** | 7.884 | 0 | 0.5 | 0.473 | 52.334 | **<0.001** | 7.827 |
| Ramets after flowering\* | 0 | 0.5 | 0 | 22.59 | **<0.001** | 5.826 | 0 | 0.5 | 0 | 22.903 | **<0.001** | 5.999 |
| Relative growth rate | 0.483 | 0.2435 | 1.389 | 0 | 0.5 | 0 | 0.237 | 0.3135 | 0.973 | 0 | 0.5 | 0 |
| SLA | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 |
| ***Herbivore community*** | | | | | | | | | | | | |
| *D. plexippus* abundance\* | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 |
| *L. clivicollis* abundance\* | 0 | 0.5 | 0.373 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 |
| *L. asclepiadis* abundance\* | 0.007 | 0.4566 | 0.957 | 5.651 | **0.0085** | 3.385 | 0.024 | 0.4385 | 0.904 | 5.397 | **0.01** | 3.368 |
| ***Defense traits*** | | | | | | | | | | | | |
| Herbivory before flowering (binary)\* | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 |
| Herbivory before flowering (quantitative) | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 |
| Herbivory after flowering (binary)\* | 0.001 | 0.4895 | 0 | 0.315 | 0.2875 | 3.729 | 0.001 | 0.4885 | 0 | 0.28 | 0.2985 | 3.809 |
| Herbivory after flowering (quantitative) | 0 | 0.5 | 0 | 1.076 | 0.1495 | 4.41 | 0 | 0.5 | 0 | 0.743 | 0.1945 | 3.628 |
| Latex exudation | 2. | 0.055 | 3.946 | 3.074 | **0.04** | 7.114 | 0.504 | 0.239 | 1.722 | 3.228 | **0.036** | 7.465 |
| Weevil damage (binary)\* | 0 | 0.5 | 0 | 2.741 | **0.049** | 6.715 | 0 | 0.5 | 0 | 2.614 | 0.053 | 6.614 |
| Weevil damage (quantitative) | 2.144 | 0.0715 | 4.356 | 3.595 | **0.029** | 8.479 | 1.603 | 0.1025 | 3.912 | 3.715 | **0.027** | 8.672 |
| ***Reproductive traits*** | | | | | | | | | | | | |
| Date of first flower\* | 0 | 0.5 | 0 | 0 | 0.5 | 12.682 | 0 | 0.5 | 0 | 0 | 0.5 | 10.791 |
| Date of first follicle\* | 0 | 0.5 | 0 | 29.669 | **<0.001** | 0 | 0 | 0.5 | 0 | 30.383 | **<0.001** | 0 |
| Flower size | 1.331 | 0.1245 | 10.569 | 0.319 | 0.286 | 8.428 | 0.845 | 0.179 | 9.03 | 0.414 | 0.26 | 9.935 |
| Flowering duration\* | 0 | 0.5 | 0.769 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 0 | 0.5 | 0 |
| Flowering success\* | 0.115 | 0.3675 | 2.045 | 2.696 | 0.0505 | 5.187 | 0.025 | 0.437 | 1.459 | 2.814 | **0.0465** | 5.308 |
| Follicles\* | 0 | 0.5 | 14.430 | 0 | 0.5 | 11.954 | 0 | 0.5 | 5.764 | 0 | 0.5 | 11.434 |
| Inflorescences\* | 1.325 | 0.125 | 12.878 | 9.892 | **0.001** | 0 | 0.93 | 0.1675 | 7.011 | 9.238 | **0.001** | 0 |
| Flowers per inflorescence\* | 0.359 | 0.2745 | 11.915 | 0 | 0.5 | 1.850 | 0 | 0.5 | 9.792 | 0 | 0.5 | 1.128 |