|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Larval and pupal development traits (PCA1)** | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | 5th weight | | | | 6th weight | | | 7th weight | | 5th period | | | 6th period | | | | 7th period | | | | Pupal period | |
| 6th weight | | 0.417 \* | | | | - | | |  | |  | | |  | | | |  | | | |  | |
| 7th weight | | 0.089 | | | | 0.236 | | | - | |  | | |  | | | |  | | | |  | |
| 5th period | | -0.504 \*\* | | | | 0.085 | | | -0.052 | | - | | |  | | | |  | | | |  | |
| 6th period | | -0.199 | | | | -0.333 | | | 0.445 \* | | 0.243 | | | - | | | |  | | | |  | |
| 7th period | | -0.088 | | | | -0.133 | | | -0.382 \* | | 0.139 | | | 0.022 | | | | - | | | |  | |
| Pupal period | | 0.247 | | | | 0.161 | | | 0.142 | | -0.576 \*\* | | | -0.505 \*\* | | | | -0.646 \*\*\* | | | | - | |
| Pupal weight | | -0.006 | | | | -0.046 | | | 0.195 | | 0.165 | | | 0.427 \* | | | | 0.634 \*\*\* | | | | -0.573 \*\* | |
| **Male adult traits (PCAM)** | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | Pupal weight | | | | | Distance | | | Proba to fly T | | | | | Nbr of matings | | | | Survival | | | | |
| Distance | | | 0.059 | | | | | - | | |  | | | | |  | | | |  | | | | |
| Proba to fly T | | | 0.095 | | | | | 0.215 | | | - | | | | |  | | | |  | | | | |
| Nbr of matings | | | -0.268 | | | | | -0.043 | | | 0.101 | | | | | - | | | |  | | | | |
| Survival | | | 0.236 | | | | | 0.242 | | | 0.021 | | | | | 0.099 | | | | - | | | | |
| Age at 1st mating | | | -0.228 | | | | | 0.100 | | | -0.051 | | | | | -0.027 | | | | 0.306 | | | | |
| **Female adult traits (PCAF)** | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Pupal weight | | | Distance | Proba to fly T | | Plant pref T | | Nbr of matings | Age at 1st ovip | | Survival | Total clutch | | Total larvae | | Total eggs | | Hatch rate T | | Age 1st mating | | Size 1st clutch | |
| Distance | 0.320 \*\* | | | - |  | |  | |  |  | |  |  | |  | |  | |  | |  | |  | |
| Proba to flyT | 0.080 | | | 0.190 | - | |  | |  |  | |  |  | |  | |  | |  | |  | |  | |
| Plant pref T | -0.158 | | | 0.007 | -0.118 | | - | |  |  | |  |  | |  | |  | |  | |  | |  | |
| Nbr of matings | 0.003 | | | -0.026 | -0.103 | | 0.007 | | - |  | |  |  | |  | |  | |  | |  | |  | |
| Age at 1st oviposition | 0.133 | | | 0.130 | 0.162 | | 0.176 | | 0.041 | - | |  |  | |  | |  | |  | |  | |  | |
| Survival | -0.036 | | | 0.225 \* | -0.053 | | -0.113 | | 0.160 | 0.252 \* | | - |  | |  | |  | |  | |  | |  | |
| Total clutch | 0.005 | | | 0.163 | -0.075 | | -0.156 | | 0.237\* | -0.151 | | 0.687 \*\*\* | - | |  | |  | |  | |  | |  | |
| Total larvae | 0.216 \* | | | 0.282 \*\* | 0.029 | | -0.191 | | 0.174 | -0.005 | | 0.728 \*\*\* | 0.808\*\*\* | | - | |  | |  | |  | |  | |
| Total eggs | 0.216 \* | | | 0.230 \* | -0.013 | | -0.182 | | 0.224\* | -0.002 | | 0.768 \*\*\* | 0.862\*\*\* | | 0.979 \*\*\* | | **-** | |  | |  | |  | |
| Hatch rateT | 0.331 \*\* | | | 0.300 \*\* | 0.277\*\* | | -0.36 \*\*\* | | -0.084 | 0.005 | | 0.243 \* | 0.187 | | 0.511 \*\*\* | | 0.372 \*\*\* | | **-** | |  | |  | |
| Age 1st mating | -0.202 | | | -0.168 | 0.013 | | 0.177 | | -0.111 | -0.032 | | -0.014 | -0.058 | | -0.059 | | -0.023 | | -0.329\*\* | | **-** | |  | |
| 1st clutch size | 0.242 \* | | | 0.052 | 0.294 \*\* | | -0.130 | | -0.109 | 0.464 \*\*\* | | 0.097 | -0.27 \* | | 0.142 | | 0.102 | | 0.280 \*\* | | -0.115 | | **-** | |
| HR 1st clutchT | 0.265 \* | | | 0.222 \* | 0.253 \* | | -0.32 \*\* | | -0.293 \*\* | 0.055 | | 0.161 | -0.034 | | 0.349 \*\*\* | | 0.212 \* | | 0.825 \*\*\* | | -0.215 \* | | 0.498 \*\*\* | |