Appendix S6

Table S1: Results of the multigroup path analyses for effects of reproductive traits and (A) number of eggs laid, and (B) probability of attack by the butterfly *P. alcon* on the number of intact fruits in the plant *G. pneumonanthe*, in both years. 2 and P for the models with different paths constrained to be equal are shown. A significant 2 (P<0.05) indicates that the path coefficient differs significantly among populations.

| Paths constrained to be equal | 2010 | |  | 2011 | |
| --- | --- | --- | --- | --- | --- |
| 2 | P |  | 2 | P |
| A) |  |  |  |  |  |
| All | 254.92 | <0.001 |  | 240.49 | <0.001 |
| Number of eggs → Number of intact fruits | 22.46 | 0.008 |  | 53.14 | <0.001 |
| Phenology → Number of intact fruits | 16.47 | 0.058 |  | 8.47 | 0.583 |
| Phenology → Number of eggs | 16.91 | 0.050 |  | 8.08 | 0.621 |
| Shoot height → Number of eggs | 13.94 | 0.125 |  | 9.34 | 0.500 |
| Shoot height → Number of intact fruits | 10.62 | 0.303 |  | 18.56 | 0.046 |
| Flower number → Number of eggs | 36.73 | <0.001 |  | 27.33 | 0.002 |
| Flower number → Number of intact fruits | 60.32 | <0.001 |  | 52.00 | <0.001 |
| Phenology ↔ Flower number | 13.70 | 0.133 |  | 7.80 | 0.648 |
| Phenology ↔ Shoot height | 15.57 | 0.076 |  | 24.90 | 0.006 |
| Shoot height ↔ Flower number | 11.27 | 0.258 |  | 10.89 | 0.366 |
|  |  |  |  |  |  |
| B) |  |  |  |  |  |
| All | 233.28 | <0.001 |  | 269.55 | <0.001 |
| Attack → Number of intact fruits | 14.50 | 0.106 |  | 62.06 | <0.001 |
| Phenology → Number of intact fruits | 18.35 | 0.031 |  | 5.153 | 0.881 |
| Phenology → Attack | 11.63 | 0.235 |  | 19.04 | 0.040 |
| Shoot height → Attack | 8.82 | 0.454 |  | 24.03 | 0.008 |
| Shoot height → Number of intact fruits | 9.40 | 0.401 |  | 19.32 | 0.036 |
| Flower number → Attack | 28.86 | 0.001 |  | 18.65 | 0.045 |
| Flower number → Number of intact fruits | 62.38 | <0.001 |  | 57.01 | <0.001 |
| Phenology ↔ Flower number | 13.70 | 0.133 |  | 7.80 | 0.648 |
| Phenology ↔ Shoot height | 15.57 | 0.076 |  | 24.90 | 0.006 |
| Shoot height ↔ Flower number | 11.27 | 0.258 |  | 10.893 | 0.366 |