Appendix S9

Table S1: Unstandardized path coefficients for effects of reproductive traits and number of eggs laid by the butterfly *P. alcon* on the number of intact fruits in the plant *G. pneumonanthe*. Estimates are from saturated models fitted to each population in each year. Phen = flowering phenology, Shoot h = shoot height, N fl = number of flowers, N eggs= number of eggs and N int fr = number of intact fruits. Significant coefficients (bootstrap-corrected p < 0.05) are depicted in bold, and marginally significant coefficients (p < 0.1) in italics. Average values are included in the last row.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Population | Year | Phen → | N fl → | Shoot h → | N eggs → | Shoot h → | Phen → | N fl → | Phen ↔ | N fl ↔ | Phen ↔ |
| N eggs | N eggs | N eggs | N int fr | N int fr | N int fr | N int fr | Shoot h | Shoot h | N fl |
| A | 2010 | 0.18 | *0.14* | 0.01 | **-0.19** | -0.02 | -0.13 | **0.48** | **1.48** | **5.66** | **0.53** |
| 2011 | **0.97** | 0.45 | 0.04 | **-0.10** | **-0.08** | -0.05 | **0.62** | **2.57** | **7.64** | **1.35** |
| B | 2010 | 0.04 | **0.17** | 0.03 | **-0.20** | 0.02 | **-0.13** | **0.25** | **2.57** | **3.27** | **0.67** |
| 2011 | *0.37* | **0.65** | **0.03** | -0.16 | 0.01 | 0.09 | **0.30** | **1.99** | **5.13** | **1.21** |
| C | 2010 | **0.31** | -0.04 | **0.06** | -0.15 | -0.01 | 0.13 | **0.58** | **2.43** | **3.97** | **0.93** |
| 2011 | **0.29** | **0.61** | -0.06 | -0.06 | 0.05 | 0.02 | 0.19 | **3.12** | **7.11** | **0.93** |
| D | 2011 | 0.18 | **0.22** | 0.00 | 0.07 | 0.00 | -0.01 | 0.07 | **1.84** | **3.80** | **0.91** |
| E | 2010 | 0.12 | 0.10 | 0.01 | *-0.07* | 0.02 | -0.08 | **0.20** | **3.35** | **6.93** | **1.76** |
| 2011 | **0.47** | **0.65** | -0.02 | **-0.05** | -0.01 | -0.05 | **0.24** | **1.49** | **4.96** | **0.99** |
| F | 2010 | **0.71** | **1.83** | -0.09 | **-0.09** | -0.01 | -0.03 | **0.37** | **2.91** | **3.97** | **1.05** |
| 2011 | **0.76** | **3.00** | *-0.13* | **-0.02** | 0.00 | -0.03 | **0.13** | **4.85** | **5.57** | **1.09** |
| G | 2010 | 0.17 | **0.68** | -0.04 | -0.06 | 0.00 | **-0.20** | **0.28** | **2.52** | **3.92** | **0.84** |
| 2011 | 0.19 | **1.47** | 0.06 | -0.04 | **-0.03** | 0.07 | *0.12* | **1.48** | **4.87** | **0.95** |
| H | 2010 | **0.76** | **1.28** | -0.06 | **-0.03** | 0.01 | -0.04 | **0.20** | **1.93** | **3.80** | **0.41** |
| 2011 | **2.26** | 0.85 | 0.07 | **-0.08** | -0.01 | 0.09 | **0.38** | **0.76** | **4.43** | **0.73** |
| I | 2010 | **2.59** | **2.32** | -0.06 | -0.01 | 0.01 | **-0.09** | -0.01 | **2.24** | **2.20** | **0.60** |
| 2011 | **3.93** | **10.58** | -0.18 | **-0.01** | *-0.02* | *-0.06* | **0.07** | **2.53** | **4.16** | **0.64** |
| J | 2010 | **1.76** | **1.16** | 0.05 | 0.04 | **0.08** | 0.03 | 0.05 | **0.53** | **3.78** | **0.46** |
| 2011 | *0.91* | **3.44** | -0.03 | -0.01 | 0.01 | 0.05 | 0.09 | **1.70** | **4.27** | **1.18** |
| K | 2010 | **0.76** | *-0.20* | 0.07 | **-0.19** | 0.02 | 0.04 | **0.66** | **3.17** | **9.21** | **1.52** |
| 2011 | 0.57 | **0.91** | 0.16 | **-0.19** | -0.01 | 0.07 | **0.57** | **5.40** | **12.05** | **2.57** |
| Averages | | 0.87 | 1.44 | 0.00 | -0.08 | 0.00 | -0.02 | 0.28 | 2.42 | 5.27 | 1.02 |