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**Appendices to J Poll Ecol 36(6), García et al.**

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**Table S1.** Trait means ± standard deviation, Coefficient of variation (C.V.) and Pearson’s correlation coefficients among twelve plant traits of *Asclepias syriaca*. For latex measurements only wet weights were included in the selection model (*N* = 103).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Inflor. number | Inflor. size | Hood length (mm) | Hood width (mm) | Petal width (mm) | Nectar conc. (%) | Floral wet latex (mg) | Floral dry latex (mg) | Leaf wet  latex (mg) | Leaf dry latex (mg) | Plant height (cm) | Plant damage |
| x̅ ± sd | 3.7 ± 1.5 | 34 ± 10 | 5.02 ± 0.51 | 2.33 ± 0.15 | 3.97 ± 0.28 | 27.12 ± 9.32 | 7.4 ± 5.7 | 4.4 ± 2.3 | 5.4 ± 4.6 | 3.2 ± 3.9 | 101 ± 13.61 | 0.03 ± 0.06 |
| C.V. | 39.17 | 30.37 | 10.07 | 6.40 | 7.18 | 130.53 | 77.20 | 52.50 | 86.41 | 119.96 | 13.48 | 200.86 |
| Inflor. number |  | -0.19 | 0.03 | 0.18 | -0.01 | 0.08 | 0.08 | 0.10 | -0.05 | -0.03 | **0.35\*\*** | -0.14 |
| Inflor. size |  |  | **0.25\*** | -0.04 | 0.18 | 0.20 | -0.09 | -0.13 | **-0.23\*** | **-0.26\*\*** | 0.08 | -0.02 |
| Hood length |  |  |  | **0.25\*\*** | **0.34\*\*\*** | 0.002 | 0.03 | 0.03 | **-0.26\*\*** | **-0.32\*\*\*** | **0.21\*** | 0.16 |
| Hood width |  |  |  |  | **0.32\*\*** | -0.12 | **0.26\*\*** | **0.34\*\*\*** | 0.13 | 0.10 | 0.35\*\*\* | 0.05 |
| Petal width |  |  |  |  |  | 0.05 | **0.35\*\*** | **0.24\*** | -0.07 | -0.12 | 0.27\*\* | 0.04 |
| Nectar conc. |  |  |  |  |  |  | -0.05 | -0.16 | **-0.20\*** | **-0.21\*** | 0.08 | -0.13 |
| Floral wet latex |  |  |  |  |  |  |  | **0.70\*\*\*** | **0.32\*\*** | **0.27\*\*** | **0.29\*\*** | 0.07 |
| Floral dry latex |  |  |  |  |  |  |  |  | **0.24\*** | **0.20\*** | **0.21\*** | -0.05 |
| Leaf wet latex |  |  |  |  |  |  |  |  |  | **0.95\*\*\*** | 0.03 | -0.08 |
| Leaf dry latex |  |  |  |  |  |  |  |  |  |  | -0.01 | -0.13 |
| Plant height |  |  |  |  |  |  |  |  |  |  |  | 0.18 |

Significant correlations are in bold. \****P***< 0.05, \*\****P*** *<* 0.01, \*\*\****P*** < 0.001

**Table S2.** Variance-standardized (β ± SE) and mean-standardized (βµ± SE) linear selection gradients on ten plant traits of *Asclepias syriaca* (*N* =103) via fruits initiated, pollinia inserted and pollinia removed. Significant selection gradients are in bold. \****P***< 0.05, \*\****P*** *<* 0.01

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Trait | Female fitness –  fruit | | Female fitness –  inserted pollinia | | Male fitness –  pollinia removal | |
| β ± SE | βµ± SE | β ± SE | βµ± SE | β ± SE | βµ± SE |
| Inflorescence number | **0.434 ± 0.133\*\*** | **1.108 ± 0.341\*\*** | -0.013 ± 0.114 | -0.033 ± 0.292 | -0.015 ± 0.08 | -0.037 ± 0.205 |
| Inflorescence size | **0.295 ± 0.131\*** | **0.97 ± 0.43\*** | -0.023 ± 0.112 | -0.077 ± 0.369 | 0.033 ± 0.078 | 0.11 ± 0.258 |
| Hood length | -0.203 ± 0.137 | -2.012 **±** 1.356 | -0.036 ± 0.117 | -0.356 ± 1.163 | 0.034 ± 0.082 | 0.336 ± 0.815 |
| Hood width | 0.062 ± 0.137 | 0.969 **±** 2.146 | 0.054 ± 0.118 | 0.846 ± 1.84 | -0.03 ± 0.083 | -0.469 ± 1.29 |
| Petal width | 0.076 ± 0.134 | 1.052 **±** 1.868 | -0.16 ± 0.115 | -2.236 ± 1.602 | -0.02 ± 0.081 | -0.283 ± 1.123 |
| Nectar concentration | -0.056 ± 0.125 | 0 | 0.058 ± 0.107 | 0 | -0.047 ± 0.075 | 0 |
| Floral dry latex | 0.17 ± 0.13 | 0.325 **±** 0.249 | 0.124 ± 0.112 | 0.236 ± 0.213 | 0.01 ± 0.078 | 0.018 ± 0.149 |
| Leaf dry latex | -0.06 ± 0.132 | -0.05 **±** 0.11 | 0.035 ± 0.114 | 0.029 ± 0.095 | -0.057 ± 0.08 | -0.047 ± 0.066 |
| Plant height | 0.223 ± 0.141 | 1.655 **±** 1.044 | 0.172 ± 0.121 | 1.279 ± 0.895 | 0.02 ± 0.085 | 0.146 ± 0.627 |
| Damage index | 0.115 ± 0.126 | 0.057 **±** 0.063 | 0.041 ± 0.108 | 0.021 ± 0.054 | -0.007 ± 0.076 | -0.004 ± 0.038 |