Supplementary Material

**Supplementary Table 2**.Hardy-Weinberg equilibrium (HWE) and linkage disequilibrium (LD) for the 19 populations of *Euterpe precatoria* collected in the states of Amazonas and Rondônia in Brazil

|  |  |  |
| --- | --- | --- |
| **Populations** | **CLD (LD%)** | **Loci** |
|  **Epr01** |  **Epr02** | **Epr22** | **Epr32** | **Epr05** | **Epr13** | **Epr15** | **Epr21** | **Epr36** | **Epr14** | **Epr18** | **Epr19** |
| **Parintins** | 31 | (46.97) | 0.001\* | 0.157[1] | 0.001\* | 0.041 | 0.087 | 0.002\*[1] | 0.001\*[1] | 0.001\*[1] | 0.202 | 0.062 | 0.001\* | 0.001\*[3] |
| **Urucara** | 5 | (7.58) | 0.598 | 0.001\* | 0.001\* | 0.178 | 0.243 | 0.052 | 0.004\* | 0.296 | 0.001\* | 0.001\* | 0.001\* | 0.008[1] |
| **São Sebastião do Uatumã** | 11 | (16.67) | 0.143 | 0.005 | 0.006 | 0.122 | 0.019 | 0.001\* | 0.001\* | 0.001\*[1] | 0.067 | 0.001\* | 0.001\* | 0.001\* |
| **Itapiranga** | 7 | (10.61) | 0.145 | 0.001\* | 0.788[1] | 0.750 | 0.003\* | 0.001\* | 0.187 | 0.001\* | 0.001\* | 0.002\* | 0.001\* | 0.001\* |
| **Anorí** | 5 | (7.58) | 0.908 | 0.971 | 0.055 | 0.206 | 0.294[1] | 0.043 | 0.126 | 0.002\* | 0.001\* | 0.015 | 0.001\* | 0.002\* |
| **Codajas** | 5 | (7.58) | 0.651[1] | 0.001\* | 0.842 | 1.000 | 0.155 | 0.001\* | 0.059 | 0.001\* | 0.487 | 0.204 | 0.001\* | 0.001\* |
| **Coari** | 1 | (1.52) | 0.993 | 0.679[1] | 0.912 | 0.581 | 0.275 | 0.010 | 0.039 | 0.001\* | 0.910 | 0.830 | 0.001\* | 0.005 |
| **Presidente Figueiredo** | 7 | (10.61) | 0.021 | 0.370 | 0.381 | 1.000 | 0.007 | 0.136 | 0.001\* | 0.001\* | 0.001\* | 0.001\*[1] | 0.001\*[1] | 0.001\*[1] |
| **Manacapuru** | 9 | (13.64) | 0.417 | 0.323 | 0.467 | 0.095 | 0.186 | 0.281 | 0.002\* | 0.046 | 1.000 | 0.001\*[1] | 0.001\* | 0.002\*[1] |
| **Itacoatiara** | 5 | (7.58) | 0.948[1] | 0.539[1] | 0.003\* | 0.011 | 0.019 | 0.002\* | 0.006 | 0.002\* | 1.000 | 0.001\* | 0.001\* | 0.003\*[1] |
| **Novo Airão** | 13 | (19.70) | 0.008 | 0.853 | 0.555 | 0.065 | 0.001\* | 0.059 | 0.001\* | 0.001\* | 0.003\* | 0.293 | 0.118 | 1.000 |
| **Borba** | 0 | (0.00) | 0.431 | 0.175 | 0.978 | 0.049 | 0.441 | 0.002\* | 0.118 | 0.072 | 0.995 | 0.019 | 0.841 | 0.002\* |
| **Manicore** | 8 | (12.12) | 0.001\* | 0.025 | 0.996 | 0.005 | 0.214 | 0.005 | 0.168 | 1.000 | 0.319 | 0.002\*[2] | 0.048[1] | 0.001\*[1] |
| **Tabatinga** | 8 | (12.12) | 0.047 | 0.001\* | 1.000 | 0.001\* | 0.172 | 0.693 | 0.102[1] | 0.001\* | 0.441 | 0.001\* | 0.007 | 0.001\* |
| **Benjamin Constant** | 9 | (13.64) | 1.000 | 0.442 | 0.220[1] | 0.001\* | 0.004\* | 0.001\* | 0.033 | 0.001\* | 0.022 | 0.001\*[1] | 0.001\* | 0.001\* |
| **Atalaia do Norte** | 34 | (51.52) | 0.071 | 0.319 | 0.809 | 0.001\*[1] | 0.037 | 0.001\* | 0.001\* | 0.001\*[1] | 0.001\* | 0.001\* | 0.011[1] | 0.001\* |
| **Nova Mamoré** | 12 | (18.18) | 0.001\* | 0.008 | 0.025 | 0.443 | 0.001\*[1] | 0.981 | 0.071 | 0.285 | 0.001\* | 0.865 | 0.011 | 0.001\*[1] |
| **Guajará Mirim** | 17 | (25.76) | 0.015 | 0.001\*[1] | 0.836 | 0.105 | 0.001\* | 1.000 | 0.010 | 0.071 | 0.006 | 0.385[1] | 0.001\* | 0.001\* |
| **Porto Velho** | 10 | (15.15) | 0.001\* | 0.088[2] | 0.009 | 0.928 | 0.001\* | 0.417 | 0.001\* | 0.002\* | 0.001\* | 0.357 | 0.001\* | 0.001\* |

\*The *HWE* was determined at P> 0.00417. The sum of the combinations with LD (CLD) was determined with P> 0.0007576. Bonferroni correction was used (Rice, 1989). []=number of private alleles.