Table 1. List of coffee progenies (*Coffea arabica* L.) used as treatments and their characteristics, Lavras – MG, 2014.

|  |  |  |
| --- | --- | --- |
| Origins | Progenie | Characteristics |
| P | P6 | Leaves and fruits larger than standard size\* |
| P | P10 |
| P | P13 |
| P | P18 |
| P | P26 |
| P | P28 |
| M | M2 | Leaves and fruits much larger than standard size \* |
| M | M3 |
| M | M5 |
| M | M13 |
| M | M15 |
| M | M16 |
| M | M18 |
| M | M33 |
| G | G11 | Leaves and fruits exceptionally large |
| G | G12 |
| G | G14 |
| G | G21 |
| G | G25 |
| G | G27 |

\*The standard for comparison of goups plants was the ‘Acaiá Cerrado MG 1474’ by virtue of this cultivar yield grains of sieves high (17 e above) (FAZUOLI et al., 2008).

Table 2. Estimate of parameters of genetic variance between progenies within origins ($\hat{σ}\_{A/P}^{2}$), genetic variance between origins ($\hat{σ}\_{P}^{2}$) and residual variance ($\hat{σ}\_{r}^{2}$) to thickness of leaf tissues.

|  |  |  |
| --- | --- | --- |
| Parameters | Period | Estimates |
| CUT | EAD | PAL | PES | MÊS |
| $$\hat{σ}\_{A/P}^{2}$$ | 2 | 0,7114 | 0,7732 | 9,745 | 21,04 | 148,2 |
|  | 1 | 0,0033 | 0,1511 | 19,229 | 278,60 | 347,1 |
| $$\hat{σ}\_{P}^{2}$$ | 2 | 0,0156 | 3,0344 | 6,311 | 30,44 | 619,1 |
|  | 1 | 0,6652 | 0,0747 | 448,849 | 197,79 | 459,6 |
| $$\hat{σ}\_{r}^{2}$$ |  | 0,6689 | 2,3596 | 62,373 | 197,94 | 231,9 |

Note: Lavras - MG, 2014.

Table 3. Estimate of parameters of genetic variance between progenies within origins ($\hat{σ}\_{A/P}^{2}$), genetic variance between origins ($\hat{σ}\_{P}^{2}$) and residual variance ($\hat{σ}\_{r}^{2}$) to vascular bundles.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Period |  | Estimates |
|  | NXL | DXL | FLO |
| $$\hat{σ}\_{A/P}^{2}$$ | 2 |  |  286,05  | 0,2190  | 64,544  |
|  | 1 |  | 97,85 | 0,4331  | 3,797  |
| $$\hat{σ}\_{P}^{2}$$ | 2 |  | 236,24  | 0,3318  | 2,566 |
|  | 1 |  | 21,97  | 0,6566  |
| $$\hat{σ}\_{r}^{2}$$ |  |  | 83,28  | 0,6768  | 17.831 |

Note: Lavras - MG, 2014.

Table 4. Estimate of parameters of genetic variance between progenies within origins ($\hat{σ}\_{A/P}^{2}$), genetic variance between origins ($\hat{σ}\_{P}^{2}$) and residual variance ($\hat{σ}\_{r}^{2}$) to stomatic density (DEN) and stomatic functionality (FUN).

|  |  |  |
| --- | --- | --- |
| Parameters | Period | Estimates |
| DEN | FUN |
| $$\hat{σ}\_{A/P}^{2}$$ | 2 | 267,9725 | 0,00300 |
|  | 1 | 14,8224 | 0,00012 |
| $$\hat{σ}\_{P}^{2}$$ | 2 | 0,3071 | 0,00012 |
|  | 1 | 209,5907 | 0,00025 |
| $$\hat{σ}\_{r}^{2}$$ |  | 813,2747 | 0,01022 |

Note: Lavras - MG, 2014.

Table 5. Estimate of parameters of genetic variance between progenies within origins ($\hat{σ}\_{A/P}^{2}$), genetic variance between origins ($\hat{σ}\_{P}^{2}$) and residual variance ($\hat{σ}\_{r}^{2}$) to leaf water potential (PH), photosynthetic rate (*A*), stomatic conductance (*gs*) and transpiration rate (*E*).

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Period |  | Estimates |
|  |  | *A* | *gs* | *E* |
| $$\hat{σ}\_{A/P}^{2}$$ | 2 |  |  | 29,39 | 0,0019 | 0,00 |
|  | 1 |  |  | 59,77 | 0,0633 | 82,94 |
| $$\hat{σ}\_{P}^{2}$$ | 2 |  |  | 52,97 | 0,0050 | 141,26 |
|  | 1 |  |  | 832,99 | 0,0166 | 197,80 |
| $$\hat{σ}\_{r}^{2}$$ |  |  |  | 837,88 | 0,3040 | 1010,24 |

Note: Lavras - MG, 2014.