The statistical description of the predictive performance of fruit yield and potassium content in seeds, fruits, leaves, and roots for the training data (N = 144) represents according to the methodology described in Methods. The final data represents in Table S10.

**Table S10:**

**The statistical description of the predictive performance of fruit yield and potassium content in plant organs for the training data (N = 144).**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model K | RMSE | MAPE | RPD | R | R2 | Adjusted R2 | Standardized Beta | t | Sig. |
| Seed | 0.681 | 2.39% | 3.577 | 0.970\*\* | 0.940 | 0.940 | 0.970 | 47.209 | 0.000 |
| Fruit | 0.465 | 1.77% | 5.174 | 0.984\*\* | 0.968 | 0.968 | 0.984 | 65.425 | 0.000 |
| Leaf | 12.148 | 132.11% | 0.148 | 0.992\*\* | 0.984 | 0.984 | 0.992 | 94.761 | 0.000 |
| Root | 0.703 | 1.97% | 4.420 | 0.976\*\* | 0.952 | 0.952 | 0.976 | 53.122 | 0.000 |
| Fruit yield | 0.858 | 15.86% | 1.637 | 0.848\*\* | 0.719 | 0.717 | 0.848 | 19.067 | 0.000 |