The statistical description of the predictive performance of fruit yield and potassium content in seeds, fruits, leaves, and roots for the test data (N = 192) represents according to the methodology described in Methods. The final data represents in Table S13.

**Table S13:**

**The statistical description of the predictive performance of fruit yield and potassium content in plant organs for the test data (N = 192).**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model K | RMSE | MAPE | RPD | R | R2 | Adjusted R2 | Standardized Beta | t | Sig. |
| Seed | 0.589 | 1.79 | 4.13 | 0.976 | 0.952 | 0.951 | 0.976 | 61.22 | 0.000 |
| Fruit | 0.402 | 1.33 | 5.84 | 0.987 | 0.974 | 0.974 | 0.987 | 84.22 | 0.000 |
| Leaf | 12.39 | 145.11 | 0.153 | 0.995 | 0.989 | 0.989 | 0.995 | 133.40 | 0.000 |
| Root | 0.608 | 1.47 | 4.81 | 0.979 | 0.959 | 0.959 | 0.979 | 66.54 | 0.000 |
| Fruit yield | 0.743 | 11.89 | 1.73 | 0.859 | 0.737 | 0.736 | 0.859 | 23.08 | 0.000 |