Table S9. Parameters describing the maturation progress plotted against the time according to the sigmoidal equation type y= a / (1 + e-((x-x0)/b)). Independent variable: DOY. a= maximum value, b= slope factor of the curve, x0= inflection point of the curve, R2= coefficient of determination, *P*= significance. SMPH= semi-minimal pruned hedge, ST= shoot topping, VSP= vertical shoot positioning, MT= mechanical thinning.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Treatment** | **a** | **b** | **x0** | **R2** | ***P*-value** |
| **2013** | **SMPH ST 1** | 13.3 | 10.7 | 257.8 | 0.9848 | 0.1233 |
| **SMPH ST 2** | 13.3 | 12.9 | 255.9 | 0.9876 | 0.1113 |
| **SMPH ST 3** | 14.1 | 12.9 | 255.8 | 0.9891 | 0.1042 |
| **SMPH ST 4** | 14.0 | 10.5 | 257.3 | 0.9942 | 0.0761 |
| **VSP** | 25.3 | 36.0 | 256.6 | 0.9562 | 0.2092 |
| **SMPH MT 1** | 30.8 | 50.9 | 286.8 | 0.9989 | 0.0335 |
| **SMPH MT 2** | 26.1 | 29.0 | 266.3 | 0.9966 | 0.0581 |
| **2014** | **SMPH ST 1** | 80.6 | 44.4 | 319.8 | 0.9973 | 0.0027 |
| **SMPH ST 2** | 153.6 | 51.8 | 367.7 | 0.9759 | 0.0241 |
| **SMPH ST 3** | 36.6 | 30.6 | 262.1 | 0.9902 | 0.0098 |
| **SMPH ST 4** | 38.8 | 33.7 | 267.0 | 0.9868 | 0.0132 |
| **VSP** | 31.2 | 27.0 | 251.0 | 0.9953 | 0.0047 |
| **SMPH MT 1** | 25.3 | 17.4 | 245.0 | 0.9948 | 0.0052 |
| **SMPH MT 2** | 24.2 | 17.0 | 243.6 | 0.9942 | 0.0058 |
| **2015** | **SMPH ST 1** | 22.8 | 27.7 | 259.4 | 0.9726 | 0.0274 |
| **SMPH ST 2** | 15.6 | 15.2 | 242.6 | 0.9812 | 0.0188 |
| **SMPH ST 3** | 22.8 | 28.0 | 259.8 | 0.9784 | 0.0216 |
| **SMPH ST 4** | 16.8 | 18.7 | 242.8 | 0.9969 | 0.0031 |
| **VSP** | 23.5 | 24.3 | 244.7 | 0.9952 | 0.0048 |
| **SMPH MT 1** | 17.0 | 14.3 | 242.4 | 0.9921 | 0.0079 |
| **SMPH MT 2** | 19.5 | 14.5 | 244.5 | 0.9999 | 0.0007 |
| **2016** | **SMPH ST 1** | 23.0 | 13.3 | 241.2 | 0.9952 | 0.0003 |
| **SMPH ST 2** | 22.7 | 13.1 | 242.6 | 0.9940 | 0.0005 |
| **SMPH ST 3** | 22.1 | 12.6 | 242.0 | 0.9847 | 0.0019 |
| **SMPH ST 4** | 21.6 | 11.4 | 241.3 | 0.9958 | 0.0003 |
| **VSP** | 21.5 | 12.3 | 240.8 | 0.9937 | 0.0005 |
| **SMPH MT 1** | 23.7 | 16.6 | 245.6 | 0.9737 | 0.0043 |
| **SMPH MT 2** | 20.7 | 10.5 | 242.6 | 0.9903 | 0.0010 |
| **2017** | **SMPH ST 1** | 502.8 | 101.9 | 591.8 | 0.9909 | 0.0955 |
| **SMPH ST 2** | 958.2 | 106.7 | 676.1 | 0.9580 | 0.2049 |
| **SMPH ST 3** | 23.1 | 30.0 | 224.1 | 0.9934 | 0.0811 |
| **SMPH ST 4** | 19.1 | 12.3 | 225.9 | 0.9951 | 0.0701 |
| **VSP** | 21.7 | 18.7 | 216.2 | 0.9972 | 0.0533 |
| **SMPH MT 1** | 23.0 | 21.7 | 230.2 | 0.9999 | 0.0121 |
| **SMPH MT 2** | 41.6 | 45.2 | 269.9 | 0.9991 | 0.0295 |
| **2018** | **SMPH ST 1** | 18.8 | 14.0 | 230.0 | 0.9766 | 0.0005 |
| **SMPH ST 2** | 18.5 | 13.0 | 229.1 | 0.9649 | 0.0012 |
| **SMPH ST 3** | 18.9 | 13.2 | 230.1 | 0.9570 | 0.0018 |
| **SMPH ST 4** | 21.5 | 18.6 | 232.6 | 0.9685 | 0.0010 |
| **VSP** | 24.1 | 18.2 | 226.9 | 0.9753 | 0.0006 |
| **SMPH MT 1** | 22.9 | 12.7 | 234.0 | 0.9653 | 0.0012 |
| **SMPH MT 2** | 22.7 | 11.0 | 231.6 | 0.9739 | 0.0007 |