

Table S1. Factorial analysis of variance performed on berry weight (W) and must parameters (real acidity (pH), total soluble solids (TSS), total acidity (TA), malic acid (MA) and tartaric acid (TcA)) at harvest stage.

Harvest parameter	F-value (T)	F-value (Y)	F-value (T×Y)
W	1.68 (0.19)	22.3 ($3.33 \cdot 10^{-6}$ ***)	1.83 (0.14)
pH	0.68 (0.57)	32.9 ($1.35 \cdot 10^{-7}$ ***)	1.07 (0.41)
TSS	0.25 (0.86)	4.86 (0.02*)	0.55 (0.77)
TA	1.13 (0.36)	108 ($1.05 \cdot 10^{-12}$ ***)	3.51 (*) (0.01)
MA	0.83 (0.49)	30.5 ($2.59 \cdot 10^{-7}$ ***)	2.55 (*) (0.04)
TcA	1.09 (0.37)	74.4 ($5.15 \cdot 10^{-11}$ ***)	1.12 (0.38)

p values in parentheses, *i.e.* *, ** and *** denote a significant difference between treatments at $p < 0.05$, $p < 0.01$ and $p < 0.001$, respectively. The variability in berry weight and must parameters was evaluated through parametric ANOVA (F-test). T: treatment. Y: year.

Table S2. Post hoc methods performed on berry weight (W) and must parameters (real acidity (pH), total soluble solids (TSS), total acidity (TA), malic acid (MA) and tartaric acid (TcA)) at harvest stage.

Harvest parameter	C	D	OD3	OD9
W (g)	1.58±0.04 a	1.57±0.06 a	1.59±0.08 a	1.67±0.03 a
pH	3.79±0.08 a	3.85±0.07 a	3.82±0.06 a	3.85±0.06 a
TSS (Brix)	23.5±0.30 a	23.1±0.38 a	23.2±0.42 a	23.4±0.34 a
TA (g/L)	2.76±0.24 a	2.62±0.21 a	2.79±0.17 a	2.75±0.16 a
MA (g/L)	1.45±0.16 a	1.63±0.17 a	1.52±0.13 a	1.57±0.11 a
TcA (g/L)	1.79±0.30 a	1.93±0.24 a	1.87±0.26 a	1.67±0.20 a

Means ± standard errors followed by a different letter indicate significant differences between treatments at least $p < 0.05$. Because effect of treatment was not significant (*i.e.*, $p > 0.05$), post hoc contrasts were not performed. Treatments: lime (C), liming with adequate dose (D), and overliming with three (OD3) and nine-fold dose (OD9).