

Table S1. Factorial ANOVA performed on soil properties at fruit set stage.

Factor	df _M ^a	df _R ^b	pHw ^c		CaECEC ^d		MgECEC ^d		KECEC ^d		AlECEC ^d		P ^e	
			F	p value	F	p value	F	p value	F	p value	F	p value	F	p value
Liming (L)	2	36	15.1	***	13.1	***	3.93	*	5.46	**	8.22	**	5.44	**
Depth (D)	1		0.07	0.80	0.67	0.42	0.02	0.88	1.21	0.28	0.28	0.60	6.23	*
Year (Y)	2		0.14	0.87	0.36	0.70	1.44	0.25	7.76	**	0.01	0.99	2.67	0.08
L × D	2		0.49	0.62	0.33	0.73	0.49	0.61	0.15	0.87	0.43	0.65	0.82	0.45
L × Y	4		0.73	0.58	0.34	0.85	0.44	0.78	1.73	0.17	0.32	0.87	0.44	0.78
D × Y	2		0.16	0.86	0.80	0.46	0.16	0.86	0.17	0.84	0.50	0.61	3.66	*
L × D × Y	4		0.28	0.89	0.05	0.99	0.10	0.98	0.14	0.97	0.03	0.99	0.71	0.59

*significant at the $p < 0.05$ level; **significant at the $p < 0.01$ level; ***significant at the $p < 0.001$ level; ^adf_M, degrees of freedom of the model; ^bdf_R, degrees of freedom of the residuals of the model; ^cpHw, pH in water; ^dCaECEC, MgECEC, KECEC and AlECEC (in %): Ca, Mg, K and Al saturation of the effective cation exchange capacity respectively; ^eP, in mg/kg.

Table S2. Factorial ANOVA performed on must properties at harvest time.

Factor	df _M ^a	df _R ^b	W ^c		pH		TA ^d		TSS ^e		GY ^f		AE ^g		SM ^h	
			F	<i>p</i> value	F	<i>p</i> value	F	<i>p</i> value	F	<i>p</i> value	F	<i>p</i> value	F	<i>p</i> value	F	<i>p</i> value
Liming (L)	2	21	0.36	0.70	0.03	0.97	4.61	*	0.19	0.83	0.66	0.53	1.53	0.24	5.25	*
Year (Y)	1		4.37	*	1.71	0.21	32.8	***	0.06	0.81	2.93	0.10	4.43	*	7.68	*
L × Y	2		0.34	0.72	0.10	0.91	2.71	0.09	0.63	0.54	0.01	0.99	1.74	0.20	3.90	*

*significant at the $p < 0.05$ level; ***significant at the $p < 0.001$ level; ^adf_M, degrees of freedom of the model; ^bdf_R, degrees of freedom of the residuals of the model; ^cW (in g), berry weight; ^dTA (in g tartaric acid/L), total acidity; ^eTSS (in °Baumé), total soluble solids; ^fGY (in kg/ha), grape yield; ^gAE (in %), anthocyanin extractability; ^hSM (in %), seed maturity.