

Supplemental Data for:

Copp CR, KC AN and Levin AD. 2021. Cluster thinning does not improve fruit composition in grapevine red blotch virus-infected *Vitis vinifera* L. *Am J Enol Vitic* 73:56-66. doi: 10.5344/ajev.2021.21016.

Supplemental Table 1 Phenology by date and accumulation growing degree days (GDD). GDD are accumulated from 1 April.

	Year	Budbreak	Bloom	Veraison	Harvest (3309C/RG) ^a
Date	2018	23 April	3 June	10 Aug	1 Oct
	2019	16 April	6 June	7 Aug	25 Sept/2 Oct
	2020	16 April	2 June	7 Aug	17 Sept/21 Sept
GDD (base 10°C)	2018	50	319	1143	1608
	2019	21	297	936	1408/1426
	2020	40	291	945	1423/1452

^a3309C, 3309 Couderc; RG, Riparia Gloire.

Supplemental Table 2 Treatment and year effects on secondary fruit composition per unit fresh weight at harvest for the rootstocks 3309 Couderc (3309C) and Riparia Gloire (RG). Data are means \pm 1 standard error (n = 4). CON, control irrigation and no thinning; SUPP, 2x control irrigation; THIN, one cluster per shoot; ANOVA, analysis of variance; FW, fresh weight; IRP, iron-reactive phenolics.

Year/ Irrigation	Thinning	Skin IRP (mg/g FW)		Seed IRP (mg/g FW)		Seed tannins (mg/g FW)	
		3309C	RG	3309C	RG	3309C	RG
2018							
CON	CON	1.36 \pm 0.14	1.85 \pm 0.14	3.23 \pm 0.20	3.05 \pm 0.19	1.70 \pm 0.11	1.55 \pm 0.08
	THIN	1.66 \pm 0.14	1.93 \pm 0.14	3.74 \pm 0.20	3.40 \pm 0.19	1.88 \pm 0.11	1.19 \pm 0.08
SUPP	CON	1.45 \pm 0.14	1.74 \pm 0.14	3.59 \pm 0.20	2.91 \pm 0.19	1.89 \pm 0.11	1.48 \pm 0.08
	THIN	1.93 \pm 0.14	2.14 \pm 0.14	3.36 \pm 0.20	2.39 \pm 0.19	1.92 \pm 0.11	1.51 \pm 0.08
2019							
CON	CON	2.08 \pm 0.14	2.16 \pm 0.14	1.89 \pm 0.20	1.73 \pm 0.19	0.90 \pm 0.11	0.80 \pm 0.08
	THIN	1.98 \pm 0.14	2.51 \pm 0.14	2.19 \pm 0.20	2.02 \pm 0.19	0.89 \pm 0.11	0.85 \pm 0.08
SUPP	CON	1.81 \pm 0.14	2.17 \pm 0.14	2.11 \pm 0.20	2.07 \pm 0.19	0.95 \pm 0.11	0.90 \pm 0.08
	THIN	1.76 \pm 0.14	2.39 \pm 0.14	1.94 \pm 0.20	2.19 \pm 0.19	0.85 \pm 0.11	0.85 \pm 0.08
2020							
CON	CON	2.39 \pm 0.14	2.61 \pm 0.14	4.62 \pm 0.20	3.42 \pm 0.19	1.58 \pm 0.11	1.14 \pm 0.08
	THIN	2.39 \pm 0.14	2.54 \pm 0.14	4.51 \pm 0.20	3.50 \pm 0.19	1.49 \pm 0.11	1.12 \pm 0.08
SUPP	CON	1.59 \pm 0.14	2.33 \pm 0.14	3.75 \pm 0.20	3.23 \pm 0.19	1.24 \pm 0.11	1.05 \pm 0.08
	THIN	1.73 \pm 0.14	2.86 \pm 0.14	4.07 \pm 0.20	3.67 \pm 0.19	1.36 \pm 0.11	1.15 \pm 0.08
ANOVA							
Irrigation (I)		0.042	0.965	0.211	0.478	0.568	0.326
Thinning (T)		0.151	0.014	0.495	0.390	0.747	0.355
Year (Y)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
I * T		0.481	0.119	0.397	0.434	0.960	0.157
I * Y		<0.001	0.787	0.015	0.005	0.057	0.313
T * Y		0.055	0.905	0.942	0.291	0.527	0.104
I * T * Y		0.928	0.047	0.047	0.043	0.402	0.051