Supplementary Information

Assessment of the crop forcing technique and irrigation strategy on the ripening of Tempranillo grapes in a semi-arid climate.

Nieves Lavado[a,b], David Uriarte[a], Luis A. Mancha[a], Daniel Moreno[b] M. Esperanza Valdés[b] y M. Henar Prieto[a].

[a.]CICYTEX (Junta de Extremadura), Finca La Orden, Guadajira, Badajoz, Spain

[b.]CICYTEX (Junta de Extremadura), Instituto Tecnológico Agroalimentario de Extremadura, Badajoz, Spain

Table S1. Coefficient of determination (R^2) and equation between x=Total Soluble Solids (TSS) and y= pH; Titratable Acidity (TA); Malic Acid (MAL); Tartaric Acid (TAR); Total Polyphenols (TPP) and Total Anthocyanins (TAN), in year 2017, 2018 and 2019.

	Treatment	2017			2018			2019		
		Equation	***Slope*[a]**	**R^2**	**Equation**	***Slope*[a]**	**R^2**	**Equation**	***Slope*[a]**	**R^2**
pH	**C-NF**	y = 0.0944x + 1.552	*bc*	R^2 = 0.8252	y = 0.0692x + 1.9309	*d*	R^2 = 0.8674	y = 0.0875x + 1.5930	*a*	R^2 = 0.8885
	RI-NF	y = 0.1001x + 1.4088	*b*	R^2 = 0.8432	y = 0.0939x + 1.6260	*c*	R^2 = 0.8284	y = 0.0771x + 1.9269	*b*	R^2 = 0.7257
	RI-F1	y = 0.0909x + 1.6236	*c*	R^2 = 0.6995	y = 0.1061x + 1.2605	*b*	R^2 = 0.9409	y = 0.0816x + 1.6751	*ab*	R^2 = 0.9439
	RI-F2	y = 0.1237x + 0.7748	*a*	R^2 = 0.7143	y = 0.1262x + 0.7096	*a*	R^2 = 0.8258	y = 0.0571x + 2.1008	*c*	R^2 = 0.904
TA	**C-NF**	y = -1.1546x + 32.107	*b*	R^2 = 0.8917	y = -1.3285x + 35.061	*a*	R^2 = 0.8745	y = -1.0817x + 27.444	*a*	R^2 = 0.8048
	RI-NF	y = -1.0622x + 29.257	*c*	R^2 = 0.8643	y = -0.6638x + 20.107	*c*	R^2 = 0.7199	y = -0.8767x + 24.042	*c*	R^2 = 0.8233
	RI-F1	y = -0.8937x + 25.989	*d*	R^2 = 0.6768	y = -1.1065x + 30.534	*b*	R^2 = 0.8639	y = -0.9534x + 27.496	*b*	R^2 = 0.9024
	RI-F2	y = -1.2539x + 33.881	*a*	R^2 = 0.7079	y = -1.3285x + 35.432	*a*	R^2 = 0.8245	y = -0.8464x + 25.411	*c*	R^2 = 0.8613
MAL	**C-NF**	y = -0.7525x + 20.043	*a*	R^2 = 0.8729	y = -1.0193x + 25.71	*a*	R^2 = 0.8909	y = -0.7485x + 17.72	*a*	R^2 = 0.8927
	RI-NF	y = -0.5372x + 13.757	*b*	R^2 = 0.7877	y = -0.3475x + 10.818	*c*	R^2 = 0.4712	y = -0.5324x + 14.308	*bc*	R^2 = 0.8204
	RI-F1	y = -0.3503x + 10.702	*c*	R^2 = 0.7091	y = -0.4826x + 13.482	*b*	R^2 = 0.6438	y = -0.5604x + 16.196	*b*	R^2 = 0.9186
	RI-F2	y = -0.5406x + 15.206	*b*	R^2 = 0.7122	y = -0.5579x + 15.536	*b*	R^2 = 0.6153	y = -0.5107x + 14.857	*c*	R^2 = 0.9033
TAR	**C-NF**	y = -0.0853x + 7.4104	*b*	R^2 = 0.2917	y = -0.0675x + 6.5076	*c*	R^2 = 0.4773	y = -0.0919x + 6.9316	*a*	R^2 = 0.4835
	RI-NF	y = -0.1933x + 9.9613	*a*	R^2 = 0.696	y = 0.053x + 4.0839	-	R^2 = 0.1219	y = -0.0925x + 7.3254	*a*	R^2 = 0.452
	RI-F1	y = -0.0880x + 6.6360	-	R^2 = 0.1888	y = -0.0992x + 7.1437	*b*	R^2 = 0.2355	y = -0.0804x + 7.1108	*b*	R^2 = 0.6687
	RI-F2	y = -0.1146x + 7.2372	*b*	R^2 = 0.3102	y = -0.193x + 8.7879	*a*	R^2 = 0.426	y = -0.0993x + 7.6049	*a*	R^2 = 0.7237
TPP	**C-NF**	y = -0.2889x + 11.891	*c*	R^2 = 0.5109	y = -0.3049x + 12.000	*b*	R^2 = 0.4868	y = -0.2697x + 10.172	*b*	R^2 = 0.5058
	RI-NF	y = -0.3593x + 13.975	*b*	R^2 = 0.5387	y = -0.0095x + 5.0595	-	R^2 = 0.0006	y = -0.4824x + 15.273	*a*	R^2 = 0.7771
	RI-F1	y = -0.6655x + 21.276	*a*	R^2 = 0.729	y = -0.4101x + 16.196	*b*	R^2 = 0.2508	y = -0.2761x + 12.141	*b*	R^2 = 0.3228
	RI-F2	y = -0.6569x + 21.474	*a*	R^2 = 0.5457	y = -0.565x + 19.097	*a*	R^2 = 0.5623	y = -0.3041x + 13.257	*b*	R^2 = 0.5401
TAN	**C-NF**	y = 0.0783x - 0.8179	*c*	R^2 = 0.7069	y = 0.078x - 0.7698	*c*	R^2 = 0.9009	y = 0.0695x - 0.6885	*b*	R^2 = 0.6641
	RI-NF	y = 0.1190x - 1.4075	*b*	R^2 = 0.7901	y = 0.0877x - 0.8398	*c*	R^2 = 0.6019	y = 0.0717x - 0.6764	*b*	R^2 = 0.4872
	RI-F1	y = 0.1426x - 2.0128	*ab*	R^2 = 0.7432	y = 0.1077x - 1.1079	*b*	R^2 = 0.7257	y = 0.1224x - 1.6916	*a*	R^2 = 0.9389
	RI-F2	y = 0.1831x - 2.7493	*a*	R^2 = 0.5142	y = 0.1971x - 2.8476	*a*	R^2 = 0.5936	y = 0.1168x - 1.3280	*b*	R^2 = 0.8426

[a.] *Comparison of slopes was tested by performing the corresponding analysis of variance (ANOVA), in all cases p<0.001. Different letters indicate the existence of statistically significant differences between treatments.*

a)

b)

c)

Photographs of vines of treatments (a) C, (b) F1 and (c) F2 on 11th August 2017.