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SUPPLEMENTARY DATA

Table S1. Climate information. Daily mean temperature, daily mean solar radiation and monthly accumulated precipitation for 10-year average (10 Avg.; 2011–2020), 2021 and 2022 at Consell.

	Daily mean temperature [ºC]			Daily solar radiation [MJ/m^2]			Accumulated precipitation [mm]		
	10 Avg.	2021	2022	10 Avg.	2021	2022	10 Avg.	2021	2022
April	14.5	13.3	13.8	18.6	15.7	16.8	20	2	13
May	18	18.3	20.1	22.5	20.8	21.9	10	34	24
June	22.7	23.6	25.5	25.6	22.2	25.7	18	4	0
July	25.8	26.1	27.6	25.0	23.8	25.1	1	8	0
August	25.7	26.1	27.5	21.4	19.7	19.8	7	5	4
September	22.0	23.9	23.6	15.8	14.0	16	29	20	32
October	18.0	17.0	20.0	12.1	10.7	12.7	27	31	20
April–October	**20.9**	**21.2**	**22.6**	**20.1**	**18.1**	**19.7**	**111**	**105**	**93**

SUPPLEMENTARY DATA
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Table S2. Stem water potential [MPa] for 2021 and 2022 campaigns. Values represented are means ($n = 4$) ± SE and analyse of variance (AOV) per irrigation treatment (I), canopy management treatment (C) and interaction (I * C). Asterisks (*) indicate the significance of the factor (* = $p < 0.05$; ** = $p < 0.01$; *** <0.001). Different letters indicate significant differences ($p < 0.05$) using Tukey's test.

2021							
	30th June	8th July	21st July	29th July	4th August	12th August	26th August
MDI/C	– 0.75 ± 0.05^{a}	– 0.98 ± 0.08	– 1.07 ± 0.05	– 1.31 ± 0.12	– 1.07 ± 0.11	– 1.07 ± 0.04	– 1.31 ± 0.12
MDI/L	– 0.61 ± 0.03 ^{ab}	– 0.87 ± 0.08	– 0.98 ± 0.01	– 1.11 ± 0.13	– 0.91 ± 0.09	– 1.21 ± 0.07	– 1.25 ± 0.09
MDI/L+S	– 0.6 ± 0.03 ^{a}	– 0.70 ± 0.04	– 1.04 ± 0.04	– 1.28 ± 0.09	– 0.76 ± 0.04	– 1.2 ± 0.04	– 1.26 ± 0.1
SDI/C	– 0.71 ± 0.07 ^{ab}	– 0.91 ± 0.1	– 1.01 ± 0.05	– 1.32 ± 0.05	– 0.96 ± 0.14	– 1.12 ± 0.08	– 1.29 ± 0.14
SDI/L	– 0.85 ± 0.03 ^{b}	– 0.96 ± 0.05	– 1.05 ± 0.05	– 1.34 ± 0.06	– 0.95 ± 0.09	– 1.19 ± 0.08	– 1.37 ± 0.04
SDI/L+S	– 0.75 ± 0.05 ^{ab}	– 0.93 ± 0.04	– 1.13 ± 0.03	– 1.37 ± 0.07	– 0.96 ± 0.13	– 1.25 ± 0.06	– 1.21 ± 0.06
AOV I	**	-	-	-	-	-	-
AOV C	-	-	-	-	-	-	-
AOV I * C	*	-	-	-	-	-	-

2022							
	30th June	14th July	21st July	28th July	3rd August	11th August	29th August
MDI/C	– 0.99 ± 0.05	– 0.94 ± 0.04^{abc}	– 0.96 ± 0.09^{a}	– 1.07 ± 0.04^{ab}	– 1.2 ± 0.05	– 1.19 ± 0.03^{a}	– 0.92 ± 0.02^{a}
MDI/L	– 0.87 ± 0.03	– 0.92 ± 0.05^{ab}	– 0.99 ± 0.08^{ab}	– 1 ± 0.1^{a}	– 1.15 ± 0.07	– 1.2 ± 0.04^{a}	– 0.96 ± 0.02^{ab}
MDI/L+S	– 0.94 ± 0.06	– 0.86 ± 0.06^{a}	– 0.94 ± 0.05^{a}	– 1.06 ± 0.08^{ab}	– 1.2 ± 0.06	– 1.28 ± 0.08^{ab}	– 1.1 ± 0.12^{bc}

SUPPLEMENTARY DATA
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SDI/C	– 0.93 ± 0.04	– 1 ± 0.07^{bcd}	– 1.15 ± 0.05^{bc}	– 1.37 ± 0.07^{cd}	– 1.16 ± 0.05	– 1.36 ± 0.02^{b}	– 1.26 ± 0.1^{cd}
SDI/L	– 0.88 ± 0.04	– 1.1 ± 0.03^{d}	– 1.2 ± 0.07^{cd}	– 1.21 ± 0.04^{bc}	– 1.19 ± 0.05	– 1.28 ± 0.07^{ab}	– 1.36 ± 0.03^{d}
SDI/L+S	– 0.89 ± 0.05	– 1.09 ± 0.04^{cd}	– 1.34 ± 0.02^{d}	– 1.40 ± 0.01^{d}	– 1.27 ± 0.06	– 1.36 ± 0.04^{b}	– 1.32 ± 0.07^{cd}
AOV I	-	**	***	***	-	*	***
AOV C	-	-	-	-	-	-	-
AOV I * C	-	-	-	-	-	-	-

Table S3. Cluster level temperature results. Number of registers and days above 35 °C and maximum temperature registered during the ripening process by the sensors at cluster level per each season and treatment combination.

2021			
	Number of days over 35 ºC	Number of registers over 35 ºC	Max temperature [ºC]
MDI/C	68	1,738	46.08
MDI/L	80	2,890	57.16
MDI/L + S	73	2,091	54.06
SDI/C	75	2,077	47.76
SDI/L	80	3,136	55.43
SDI/L + S	74	1,909	54.51
2022			
	Number of days over 35 ºC	Number of registers over 35 ºC	Max temperature [ºC]
MDI/C	100	3,307	50.87
MDI/L	105	4,309	55.12
MDI/L + S	102	3,979	46.08
SDI/C	106	4,174	53.17
SDI/L	85	3,606	54.21
SDI/L + S	96	3,436	54.66

Table S4. Potassium concentration [mg/L] for 2021 and 2022 campaigns. Values represented are means ($n = 4$) ± SE and analyse of variance (AOV) per irrigation treatment (I), canopy management treatment (C) and interaction (I * C). Asterisks (*) indicate the significance of the factor (* = $p < 0.05$; ** = $p < 0.01$; *** <0.001). Different letters indicate significant differences ($p < 0.05$) using Tukey's test.

2021					
	2nd July	23rd July	10th August	7th September	23rd September
MDI/C	1,448 ± 565	1,991 ± 47^{a}	1,750 ± 29	2,234 ± 44	2,516 ± 109
MDI/L	1,403 ± 63	1,882 ± 28^{bc}	1,708 ± 15	2,147 ± 112	2,546 ± 109
MDI/L + S	1,385 ± 11	1,867 ± 11^{c}	1,649 ± 42	2,012 ± 95	2,402 ± 102
SDI/C	1,488 ± 73	1,934 ± 46^{ab}	1,707 ± 63	2,217 ± 147	2,340 ± 103
SDI/L	1,479 ± 43	1,958 ± 8^{ab}	1,716 ± 56	2,164 ± 168	2,436 ± 179
SDI/L + S	1,471 ± 67	1,951 ± 30^{ab}	1,716 ± 66	2,010 ± 125	2,336 ± 177
AOV I	-	-	-	-	-
AOV C	-	-	-	-	-
AOV I * C	-	*	-	-	-
2022					
	27th June	11th July	29th July	30th August	18th September
MDI/C	1,396 ± 43	1,580 ± 76	1,527 ± 7	2,214 ± 49^{ab}	2,596 ± 72
MDI/L	1,345 ± 46	1,506 ± 57	1,539 ± 28	2,309 ± 65^{ab}	2,710 ± 79
MDI/L + S	1,424 ± 86	1,536 ± 22	1,510 ± 41	2,077 ± 76^{b}	2,599 ± 105
SDI/C	1,404 ± 44	1,579 ± 73	1,629 ± 42	2,491 ± 72^{a}	2,981 ± 54
SDI/L	1,290 ± 62	1,549 ± 59	1,546 ± 27	2,379 ± 129^{ab}	3,024 ± 149
SDI/L + S	1,293 ± 40	1,523 ± 82	1,429 ± 40	2,327 ± 34^{ab}	2,830 ± 150
AOV I	-	-	-	**	**
AOV C	-	-	-	-	-
AOV I * C	-	-	-	-	-