

Table S1. Radiometric coefficients of the plastic film covering.

Solar Total radiation (%)	Solar Diffuse radiation (%)	Solar NIR radiation (%)	PAR Total (%)	PAR Diffuse (%)	UV-A (%)	LWIR (%)
84.5	32.0	85.6	85.5	42.8	36.9	58.8

Table S2. Climatic parameters in 2015-'16.

Years	Precipitation (mm)	T max (°C)	T min (°C)	T average (°C)	Relative Humidity (%)
2015 (January-December)	726	20.43	9.88	14.99	67.90
2016 (January-December)	524	25.76	6.23	15.66	74.33
Average	625	23.10	8.06	15.33	71.12
2015 (April-September) <i>Budbreak-harvest</i>	208.20	26.70	14.72	20.51	61.20
2016 (April-September) <i>Budbreak-harvest</i>	148.60	32.27	11.32	21.08	65.76
Average	178.40	29.49	13.02	20.80	63.48

Table S3. Vegetative and productive characteristics of 'Sugraninetene' vines. (Values are means \pm SD).

Treatment	Shoots per vine (n)	Clusters per vine (n)	Node fertility (n)	Fruitfulness
TR	32.70 \pm 2.9 a	33.40 \pm 1.8 a	0.84 \pm 0.04 a	1.04 \pm 0.08 a
V	33.60 \pm 1.7 a	37.80 \pm 1.8 a	0.94 \pm 0.05 a	1.10 \pm 0.16 a
RC	31.33 \pm 3.7 a	37.44 \pm 3.1 a	0.94 \pm 0.07 a	1.19 \pm 0.08 a

In column, values followed by the same letters did not differ significantly according to SNK test ($p < 0.05$).

Table S4. Effect of soil management on midday stem water potential (MPa). (Values are means \pm SD).

Treatment	Pea-size	Berry growth	Veráison	Harvest
TR	- 0.50 \pm 0.08 a	- 0.57 \pm 0.07 a	- 0.66 \pm 0.04 a	- 0.73 \pm 0.05 a
V	- 0.42 \pm 0.06 a	- 0.54 \pm 0.07 a	- 0.70 \pm 0.06 a	- 0.78 \pm 0.02 a
RC	- 0.49 \pm 0.06 a	- 0.43 \pm 0.06 a	- 0.73 \pm 0.05 a	- 0.80 \pm 0.05 a

In column, values followed by the same letters did not differ significantly according to SNK test ($p < 0.05$).