

DEMO FARM	CRT
Farm name	Az. Sartori Federico
Project area	Colli Piacentini
Demonstrative vineyard	
Variety	Malvasia di Candia Aromatica
Rootstock	SO4
Training system	Double Guyot
Vine spacing	2.30 x 1.00
Row orientation	NE-SO
Altitude	150 m a.s.l.
Geographical localization	45° 1'41.95"N - 9°23'11.60"E



Figure 19: CRT DEMO vineyard

Action plan description

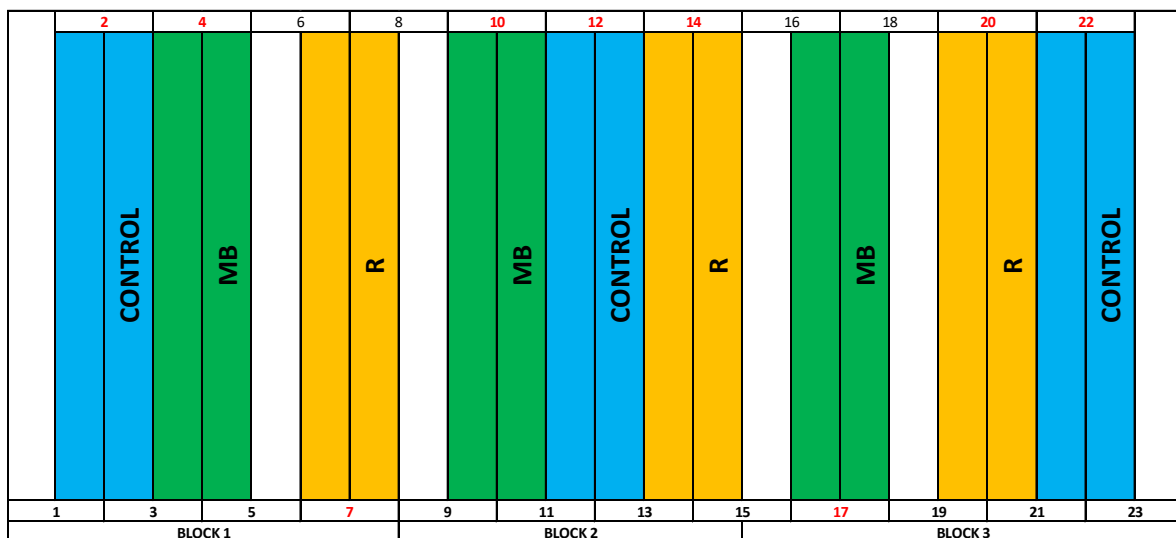


Figure 20. Experimental map of CRT DEMO vineyard. For each treatment 3 blocks were defined and, in each row, 5 plants were tagged for vine behavior assessment.

Resilience techniques applied

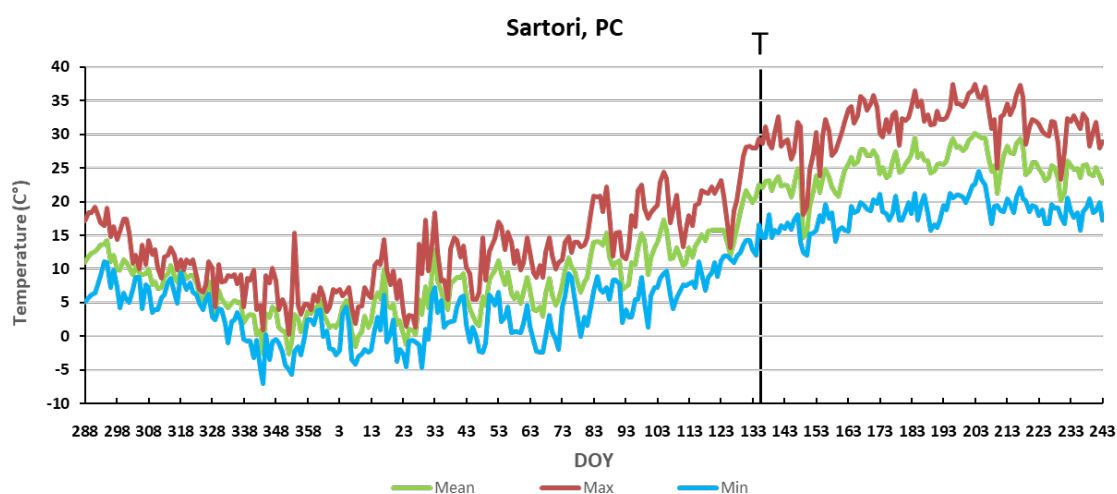
Techniques	Description
MB	Between rows space grassed with the C seeds mixture and then finished using the “mow and blow” technique.
R	Between rows space grassed with the C seeds mixture and then finished using the rolling technique.
Control	Standard farm management with alternating tilled inter-row.

What we do

Activities	Date	Notes
Season 2021		
Sowing	Late spring	Cover crop: C
Termination	20 th May	R and MB techniques
Harvest	26 th August	
Pruning	3 rd February (2022)	
Activities	Date	Notes
Season 2022		
Sowing	19 th October (2021)	Cover crop: C
Termination	18 th May	R and MB techniques
Physiological measurements	14 th June	
Physiological measurements	14 th July	
Physiological measurements	3 rd August	
Harvest	25 th August	
Pruning		Not yet performed

Data collected

Meteorological data (season 2022)



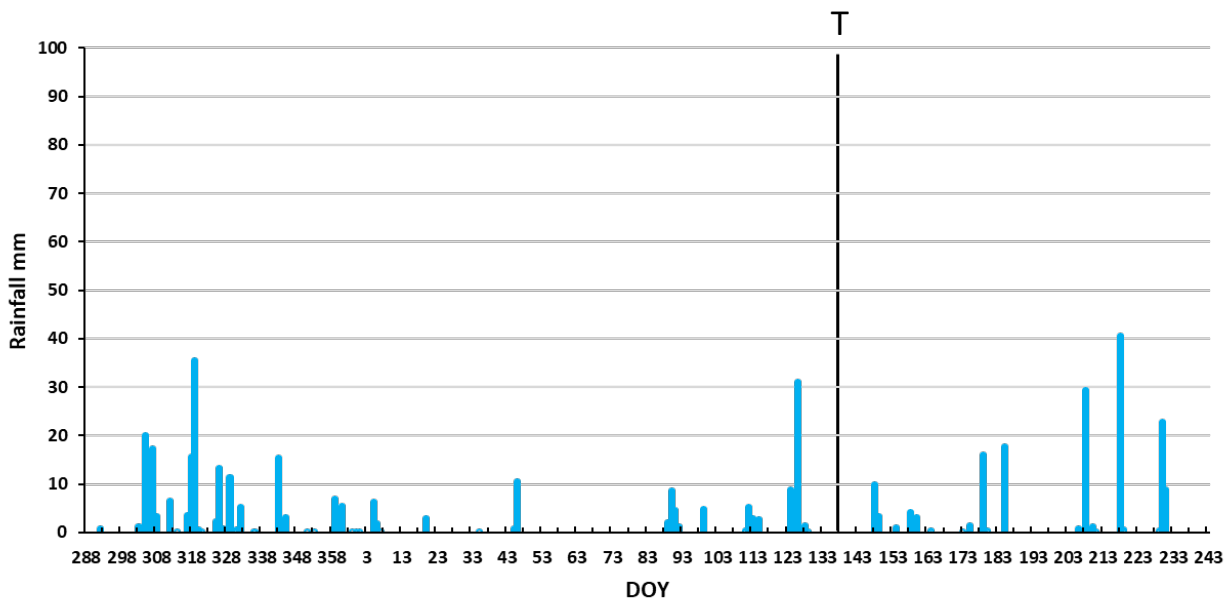


Figure 21. Temperature and Rainfall from sowing 15/10/21 to harvest 25/08/22.

Activities

The mixtures grew optimally during the autumn-winter period and resulted in a good biomass for the implementation of the techniques. Some problems emerged in the management of the under-row. Indeed, effectiveness of the “mow and blow” technique is maximised when, just prior to piling, the under the row soil strip is free of weeds. This was not exactly the case and, besides not getting the most uniform mulching effect under the row, probabilities that pre-existing weeds can actually “escape” or “perforate” the dead mulch are quite high.

Termination activities ran smoothly; however, the special mulcher for piling residues under the row needed further fine-tuning and adjustment to improve effectiveness of the mulching layer.

During the summer, activities took place regularly with as a total of three physiological data acquisition points during the season.

Harvest was about 10-day earlier than the previous year.



Figure 22. Biomass evaluation 12/05/2022 and termination day 18/05/2022.