

DEMO FARM	SMV 1
Farm name	<i>Az. Ottina Enrico Gustavo Aldo</i>
Project area	Oltrepò Pavese
<b>Demonstrative vineyard</b>	
Variety	Pinot Noir
Rootstock	SO4
Training system	Guyot
Vine spacing	2.20 x 0.90
Row orientation	NW-SE
Altitude	290 m a.s.l.
Geographical localization	45° 0'6.01"N - 9° 16'36.69"E



Figure 27: SMV\_1 DEMO vineyard

## Action plan description

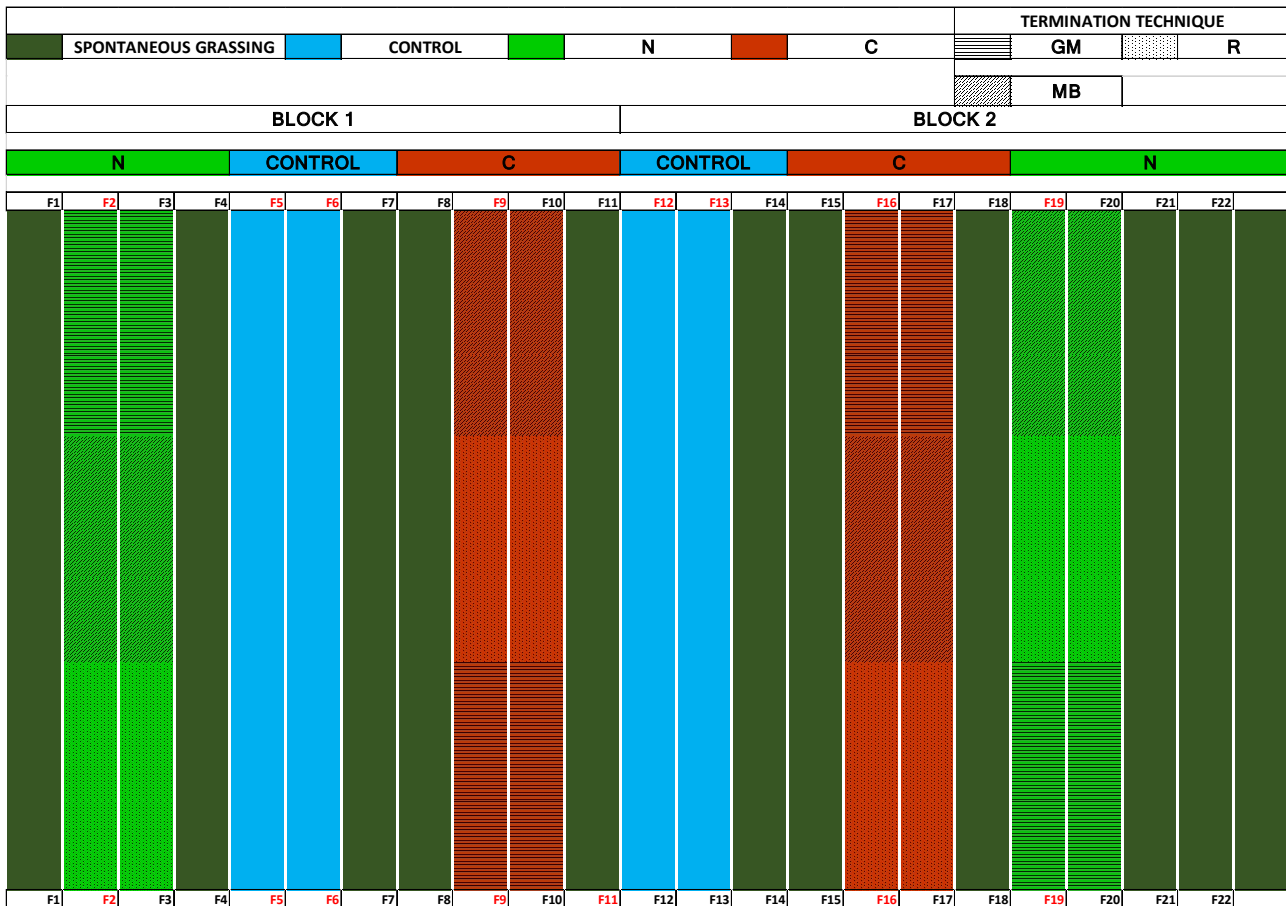

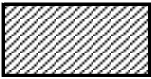
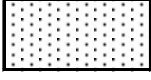


Figure 28. Experimental map SMV\_1 DEMO vineyard. For each treatment 2 blocks were defined and, in each row, 5 plants were tagged for vine behavior assessment.

## Resilience techniques applied

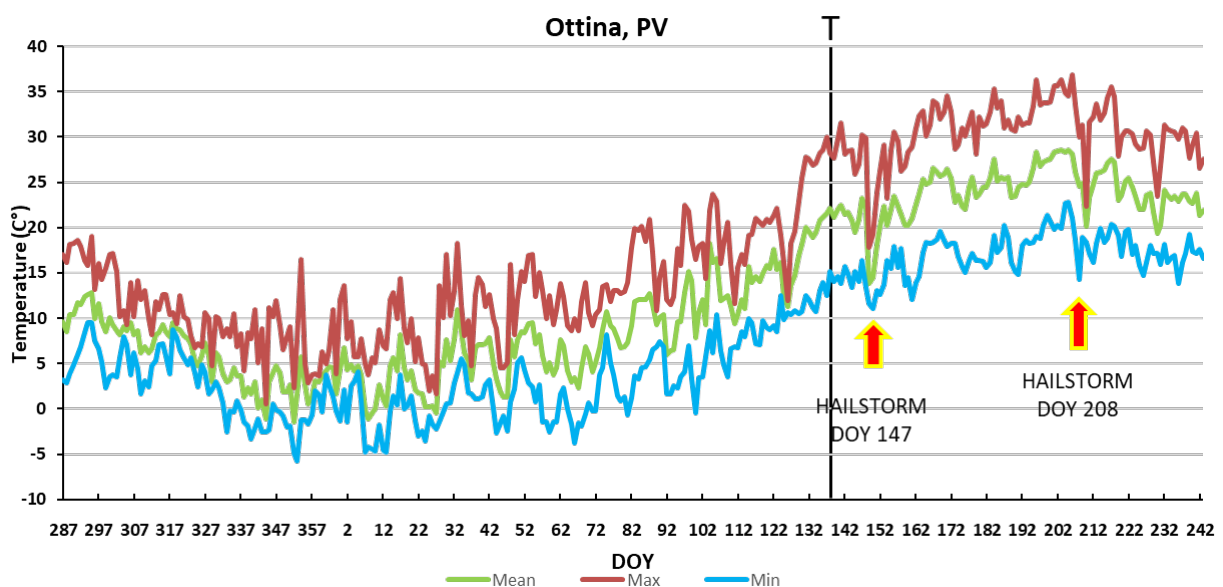
Techniques	Description
<b>GM</b> 	Between rows space grassed with the <b>N (green rows on the map) or C (red rows on the map) seeds mixtures</b> and then finished with green manure technique (GM).
<b>MB</b> 	Between rows space grassed with the <b>N or C seeds mixture</b> and then finished using the “mow and blow” technique (MB).
<b>R</b> 	Between rows space grassed with the <b>N or C seeds mixture</b> and then finished using the rolling technique (R).
<b>CONTROL</b>	Standard farm management with permanent spontaneous grassing.

## What we do

Activities	Date	Notes
<b>Season 2021</b>		
<b>Sowing</b>	Late spring	Cover crop: C and N
<b>Termination</b>	20 <sup>th</sup> May	GM, MB and R techniques
<b>Harvest</b>	31 <sup>th</sup> August	
<b>Pruning</b>	21 <sup>th</sup> December	
<b>Season 2022</b>		
<b>Sowing</b>	14 <sup>th</sup> October (2021)	Cover crop: C and N
<b>Termination</b>	19 <sup>th</sup> May	GM, MB and R techniques
<b>Physiological measurements</b>	5 <sup>th</sup> July	
<b>Physiological measurements</b>	19 <sup>th</sup> July	Stress
<b>Harvest</b>		Not harvested due to hail
<b>Pruning</b>		Not yet performed

## Data collected

### *Meteorological data (season 2022)*





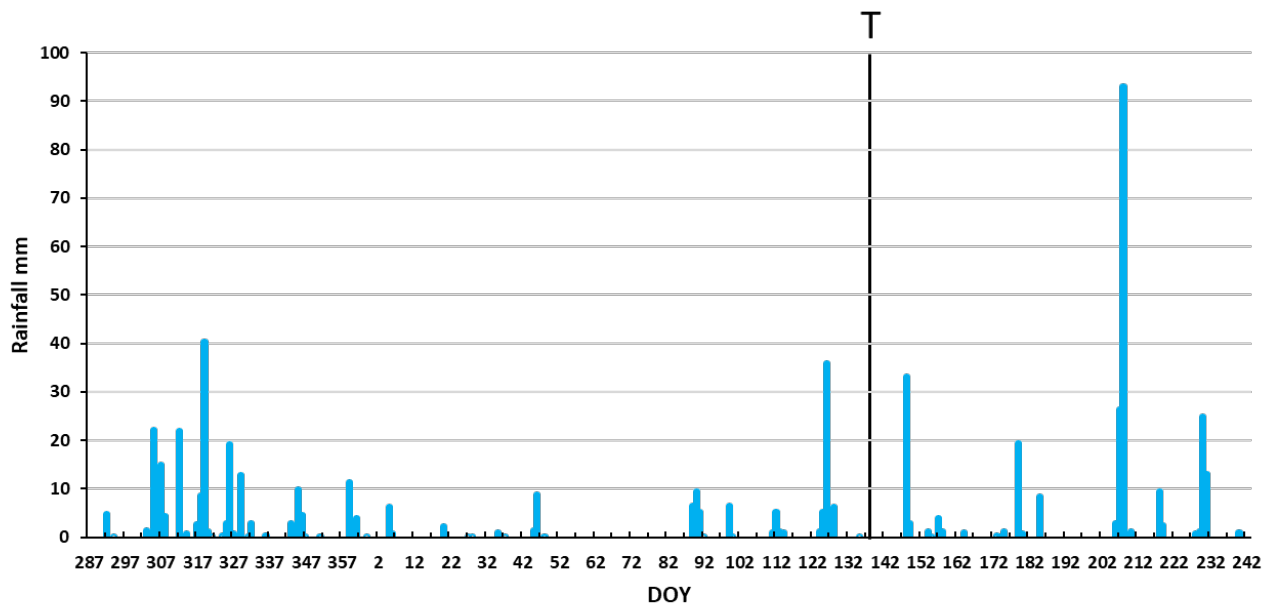


Figure 29. Temperature and Rainfall from sowing 14/10/21 to 31/08/22.

## Activities

Activities at the SMV\_1 vineyard were considerably compromised by two hailstorms: the first at the end of May damaged vines canopy; subsequently, the vines recovered, but at the end of July, a second severe hailstorm almost destroyed the vegetation and production.



Figure 30. Biomass evaluation 12/05/2022 and termination day 18/05/2022