DEMO FARM	BRP
Farm denomination	***Az. Agr. Dacarro Bernardo di Dacarro Claudio***
Project area	Oltrepò Pavese
Demonstrative vineyard	
Variety	Pinot Noir
Rootstock	SO4
Training system	Spur pruned cordon
Vine spacing	2.60 x 1.50
Row orientation	E-W
Altitude	330 m a.s.l.
Geographical localization	44°58'2.43"N - 9° 7'22.12"E

Figure 23: BRP DEMO vineyard.

Action plan description

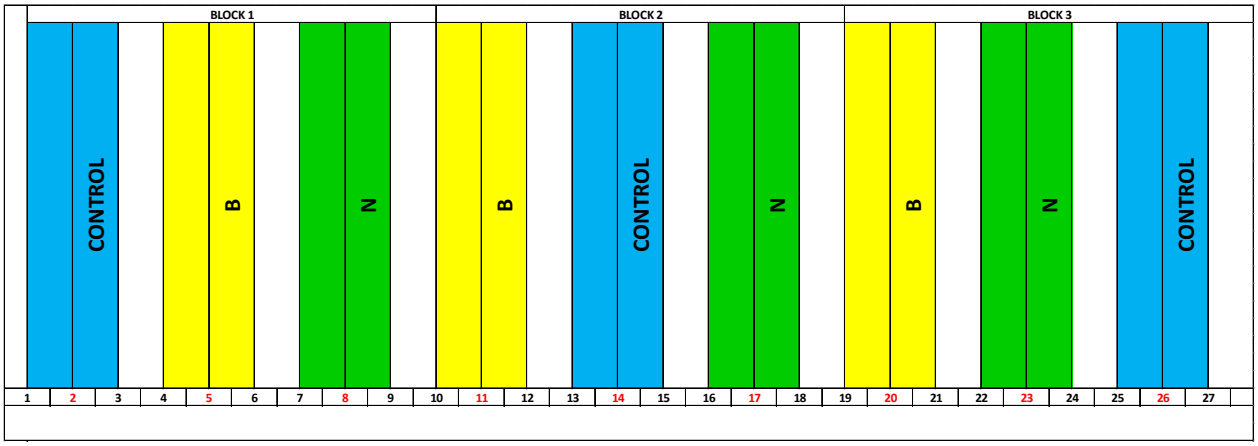


Figure 24. Experimental map BRP DEMO vineyard. For each treatment 3 blocks were defined and, in each block, 3 plants were tagged for vine behavior assessment.

Resilience techniques applied

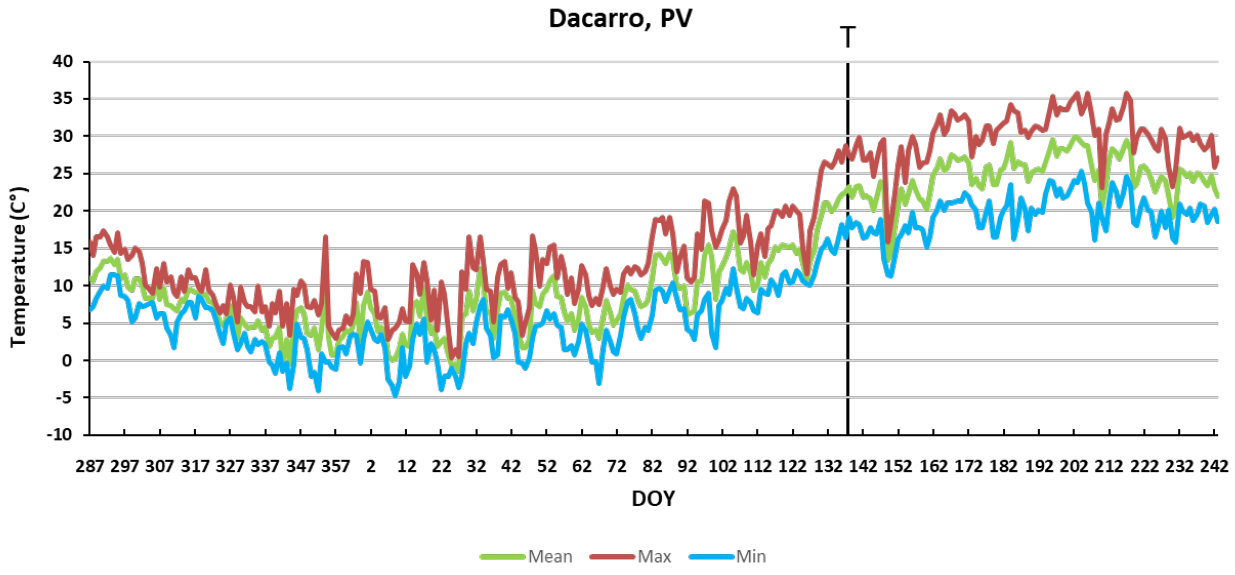
Techniques	Description
N	Between rows space grassed with the **N seeds mixture** and then finished with green manure technique (GM).
B	Between rows space grassed with the **B seeds mixture** and then finished with green manure technique (GM).
Control	Standard farm management with tilled inter-row and under-row

What we do

Activities	Date	Notes
	Season 2021	
Sowing	Late spring	
Termination	15-20 of May	
Harvest	1 of September	
Pruning	4 of February (2022)	
Activities	**Date**	**Notes**
	Season 2022	
Sowing	14 October (2021)	Cover crop: N, B
Termination	21-25 of May	green manure
Harvest	22 August	
Pruning		Not yet performed

Data collected

Meteorological data (season 2022)



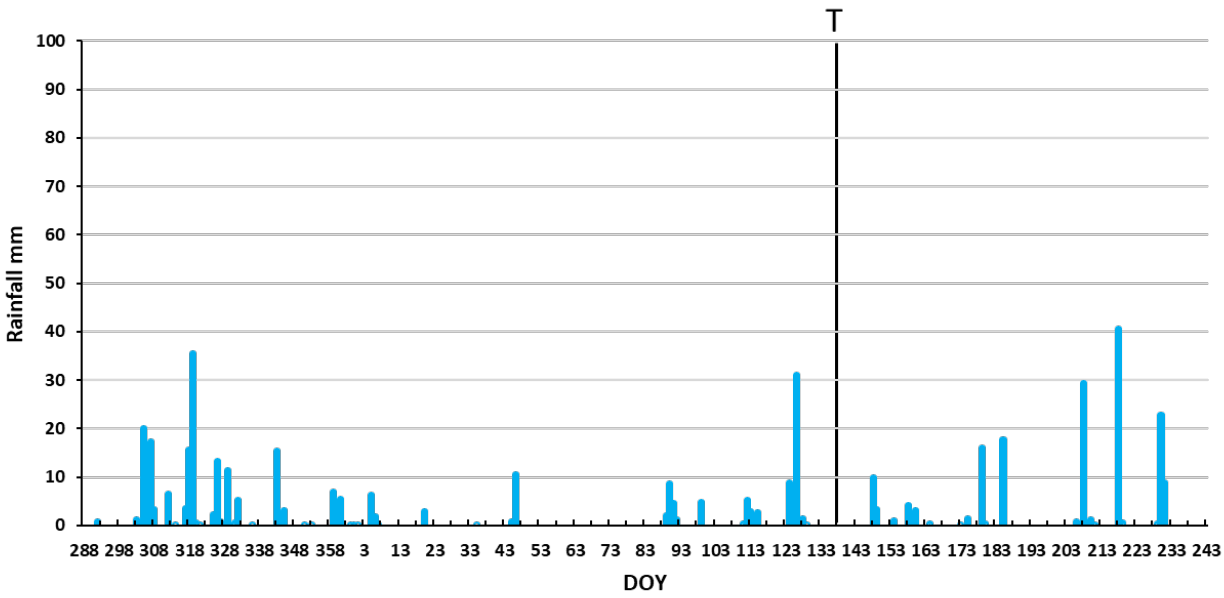


Figure 25. Temperature and Rainfall from sowing 14/10/21 to harvest 22/08/22.

Activities

In this specific vineyard, it was decided to adopt the green manure technique due to the scarcity of nutrients available. Once buried, the mixtures should improve structure, increase water holding capacity and release nutrients to the vine.

The very dry season led to insufficient development of the two sown mixtures. In addition, due to a high active lime content in the soil, the development of the legumes was negligible. In particular, soil composition has an important effect on the development of cover crops, in fact, water availability,

texture and the presence of limestone can inhibit the growth of legumes, whereas cereals are less affected. BRP has 40% total limestone and 27% active lime. This can affect the growth of all cover crops and the growth of the different botanical species within the seed mix. It will be crucial to check which species are better suited to the quite peculiar features of the vineyard.

Figure 26. Photos from biomass assessment of N and B cover crops 17/05/2022 and harvesting at the end of August 2022.