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https://doi.org/10.20870/oeno-one.2026.60.4.10343

SUPPLEMENTARY DATA

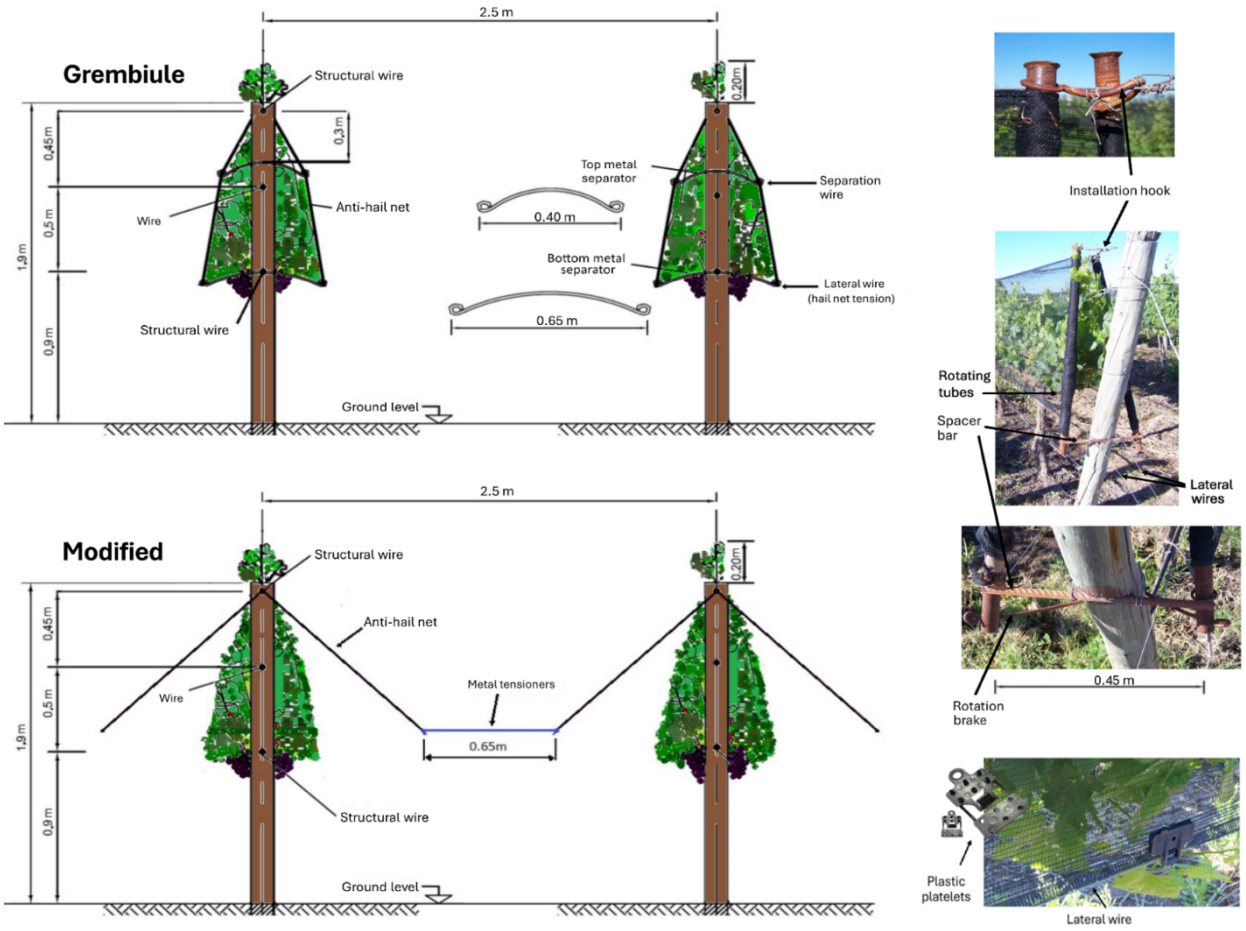


Figure S1. Technical specifications of the anti-hail net installation systems to protect vineyards trellised in vertical shoot-positioned (VSP).

In the Grembiule system, the net is placed over the canopy on each side of the VSP and attached at the top to the upper structural wire. Metal separators, 0.40 m and 0.65 m wide at the upper and lower positions, respectively, are used, with lateral wires passing through the separator loops along the row to support and tension the lower part of the net. Rotating tubes installed at both ends of the row allow the nets to be extended and tensioned. In the Modified system, metal separators and lateral wires are not used. Instead, the nets from two adjacent rows extend toward the middle of the interrow and are joined by metal tensioners approximately 0.65 m long. These tensioners can be disengaged temporarily to provide access to machinery. The figure also shows the main dimensions of the trellis and net-support structures.



Figure S2. Tractor equipped with a tubular metal frame structure designed to elevate and guide anti-hail nets safely over the machinery during mechanized vineyard operations.

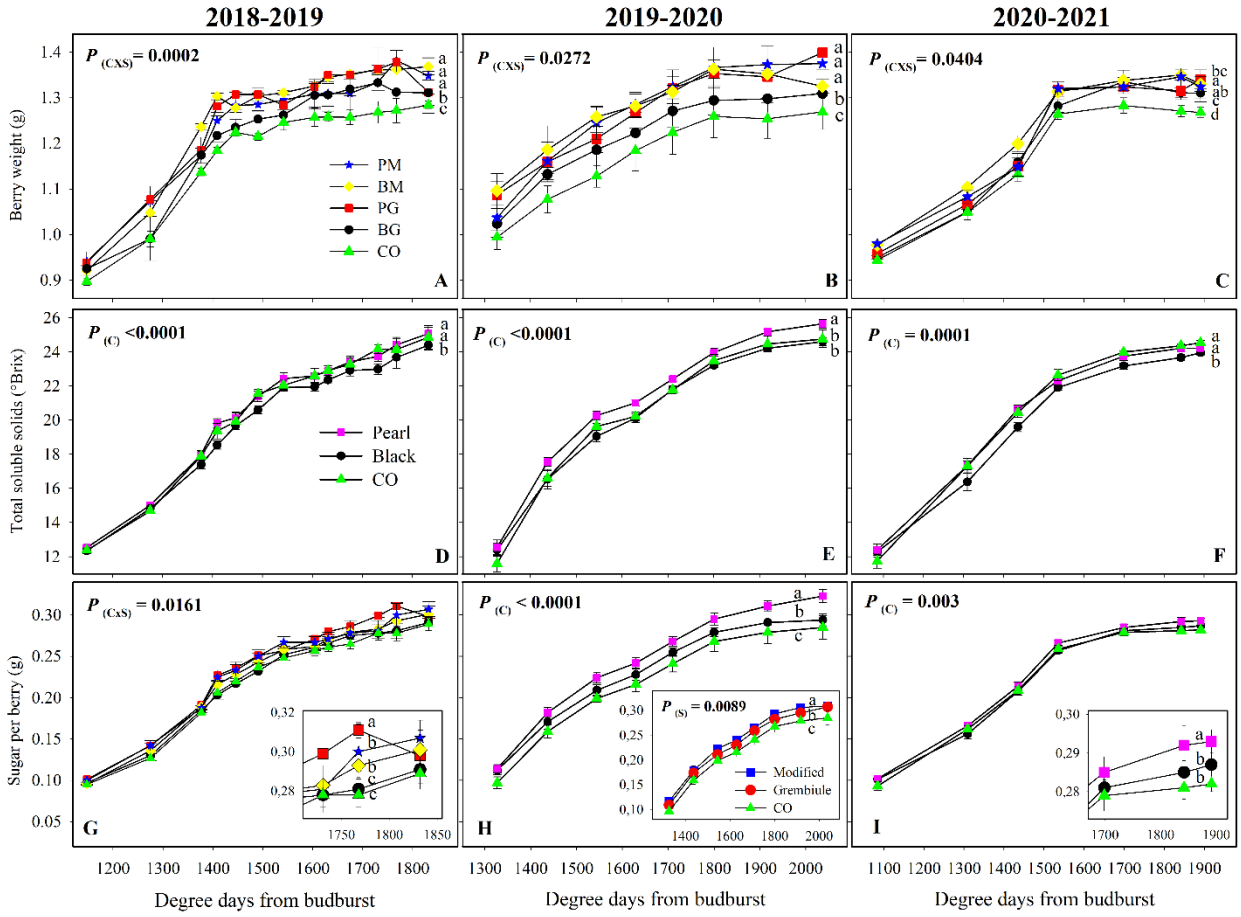


Figure S3. Berry weight, total soluble solids (TSS) and sugar per berry from veraison to harvest for 2018-19, 2019-2020 and 2020-21 in Malbec vines without hail-net protection (CO), under two anti-hail net colours (Black or Pearl), with two installation systems (Grembiule and Modified). Degree days correspond to cumulated degree days from budburst for each season. Insets indicate a part of the curve where differences were more pronounced. Statistical analysis was performed to the whole curve, significant difference between treatments is indicated by different letters ($p < 0.05$ by Fisher test).

Table S1. Orthogonal contrasts test of berry weight between linear predictors of each protective treatment and CO. Significant differences within each orthogonal contrast are indicated by an asterisk (*).

Treatments	Berry weight linear predictor (g)		Orthogonal contrast	Linear predictor difference		*p*-value	
CO	1.27	± 0.02	-	-	-	-	
BG	1.31	± 0.02	CO - BG	-0.04	± 0.02	0.1494	
PG	1.35	± 0.02	CO - PG	-0.08	± 0.02	0.0025	*
BM	1.34	± 0.02	CO - BM	-0.07	± 0.02	0.0092	*
PM	1.35	± 0.02	CO - PM	-0.08	± 0.02	0.0036	*