

SUPPLEMENTARY DATA

Dudley, S., Diaz-Garcia, L., Uyehara, I., McElrone, A., Cannizzaro, A., Sharma, S., & Bartlett, M. (2026). Grapevine adventitious root traits vary based on propagation method. *OENO One*, 60(2).
<https://doi.org/10.20870/oeno-one.2026.60.2.9599>



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Table S1. Hardwood trait correlations: *r* value.

Trait	TL	TA	TV	RT	AA	MD	F	MDP	MDL	PRL	LRL	LPR	LR	CM	LM	RM
Total length (TL)	-															
Total area (TA)	0.97	-														
Total volume (TV)	0.87	0.96	-													
Root tips (RT)	0.99	0.96	0.88	-												
Average angle (AA)	0.61	0.61	0.56	0.6	-											
Median diameter (MD)	-0.45	-0.32	-0.18	-0.42	-0.29	-										
Fibrousness (F)	0.42	0.44	0.41	0.5	0.42	0.08	-									
Median diameter primaries (MDP)	-0.41	-0.3	-0.15	-0.36	-0.28	0.81	0.1	-								
Median diameter laterals (MDL)	-0.38	-0.37	-0.35	-0.4	-0.31	0.11	-0.3	-0.03	-							
Primary root length (PRL)	0.96	0.99	0.95	0.95	0.61	-0.3	0.44	-0.32	-0.34	-						
Lateral root length (LRL)	0.95	0.86	0.72	0.94	0.56	-0.58	0.36	-0.47	-0.39	0.83	-					
Lateral to primary ratio (LPR)	0.56	0.4	0.23	0.53	0.39	-0.83	0.07	-0.61	-0.31	0.34	0.74	-				
Longest root (LR)	0.86	0.84	0.75	0.82	0.5	-0.48	0.2	-0.45	-0.33	0.82	0.83	0.6	-			
Cutting mass (CM)	0.37	0.53	0.67	0.42	0.33	0.33	0.5	0.33	-0.23	0.53	0.18	-0.26	0.27	-		
Leaf mass (LM)	0.54	0.67	0.77	0.6	0.41	0.07	0.54	0.12	-0.26	0.66	0.38	-0.03	0.4	0.85	-	
Root mass (RM)	0.76	0.84	0.86	0.77	0.59	-0.09	0.41	-0.08	-0.29	0.83	0.61	0.16	0.67	0.65	0.72	-
Rooting rate (RR)	0.22	0.18	0.14	0.2	0.17	-0.19	0.1	-0.25	-0.07	0.18	0.23	0.19	0.08	-0.13	0.02	0.01

The Pearson correlation coefficient is presented. Bold indicates a significant association ($p < 0.05$).

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Table S2. Herbaceous trait correlations: *r* value.

Trait	TL	TA	TV	RT	AA	MD	F	MDP	MDL	PRL	LRL	LPR	LR
Total length (TL)	-												
Total area (TA)	0.97	-											
Total volume (TV)	0.88	0.97	-										
Root tips (RT)	0.94	0.88	0.81	-									
Average angle (AA)	0.19	0.13	0.08	0.25	-								
Median diameter (MD)	-0.28	-0.08	0.07	-0.37	-0.17	-							
Fibrousness (F)	0.24	0.14	0.13	0.52	0.26	-0.44	-						
Median diameter primaries (MDP)	-0.22	-0.07	0.09	-0.19	-0.1	0.74	0.02	-					
Median diameter laterals (MDL)	-0.47	-0.45	-0.42	-0.56	-0.37	-0.04	-0.4	-0.24	-				
Primary root length (PRL)	0.95	0.98	0.93	0.82	0.11	-0.07	0.02	-0.16	-0.37	-			
Lateral root length (LRL)	0.89	0.78	0.65	0.95	0.28	-0.52	0.52	-0.28	-0.52	0.71	-		
Lateral to primary ratio (LPR)	0.42	0.24	0.1	0.58	0.3	-0.78	0.69	-0.34	-0.4	0.14	0.75	-	
Longest root (LR)	0.84	0.85	0.78	0.72	0.12	-0.01	-0.03	-0.03	-0.48	0.85	0.67	0.2	-
Rooting rate (RR)	0.24	0.23	0.23	0.21	0.03	-0.14	0.08	-0.15	-0.07	0.25	0.17	0.03	0.13

The Pearson correlation coefficient is presented. Bold indicates a significant association ($p < 0.05$).

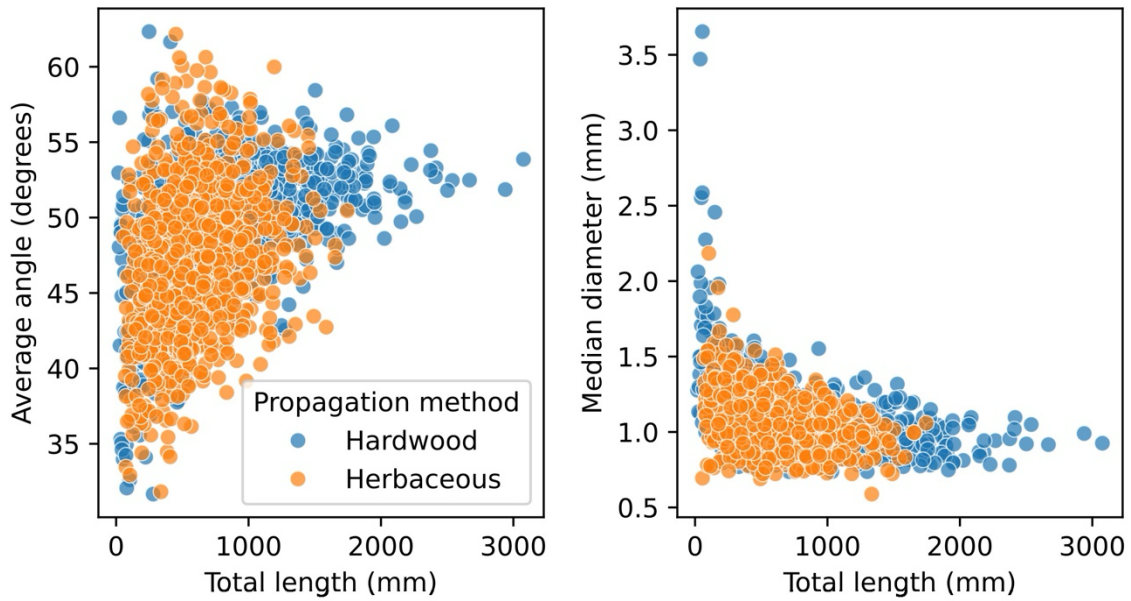


Figure S1. Scatterplots of the relationship between total length and the mapped QTL traits, average angle, and median diameter, for individuals across both propagation methods.

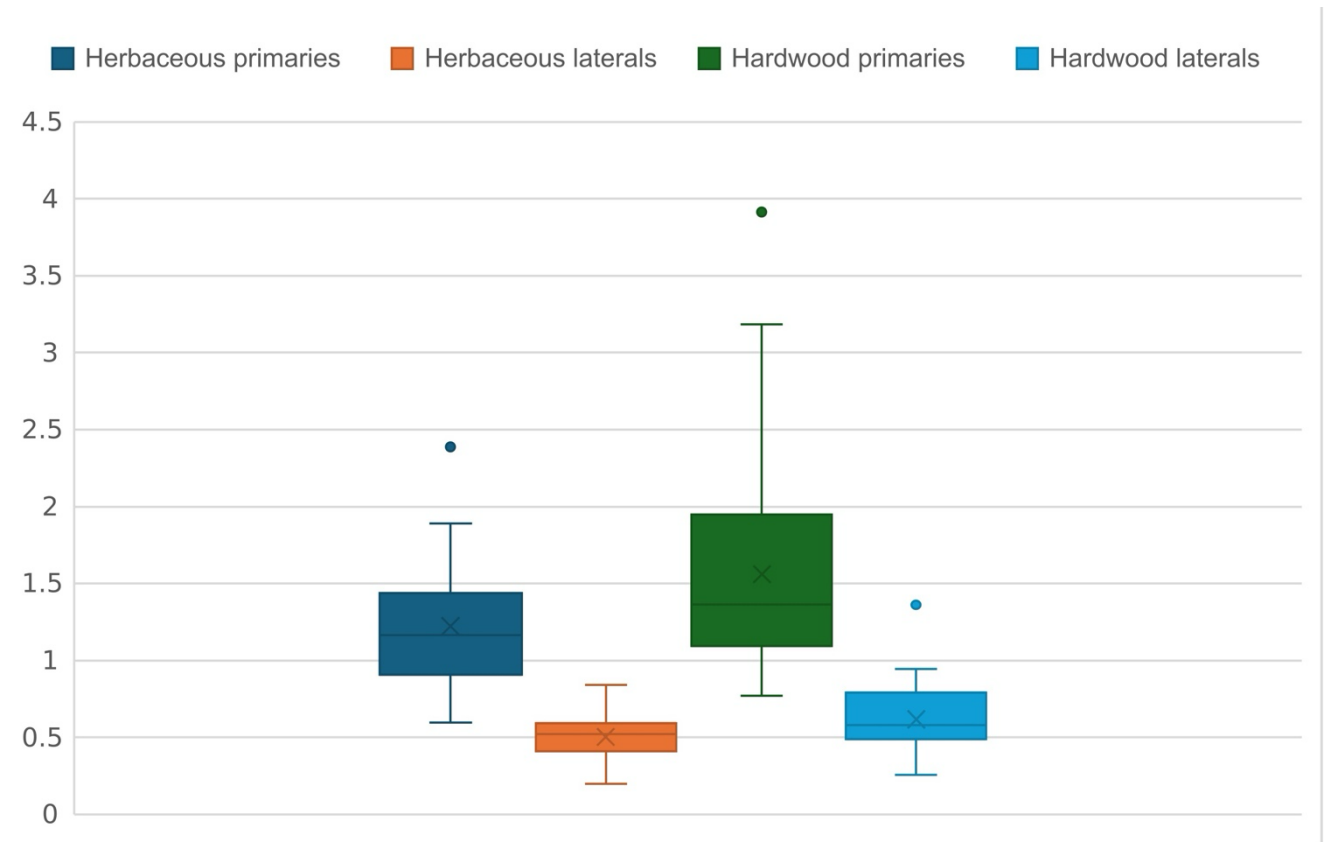


Figure S2. Boxplots of widths of each root type, in mm. Rates of mis-categorization for each group are as follows: herbaceous lateral: 0.059, herbaceous adventitious: 0.114, hardwood lateral: 0.116, hardwood adventitious: 0.065.

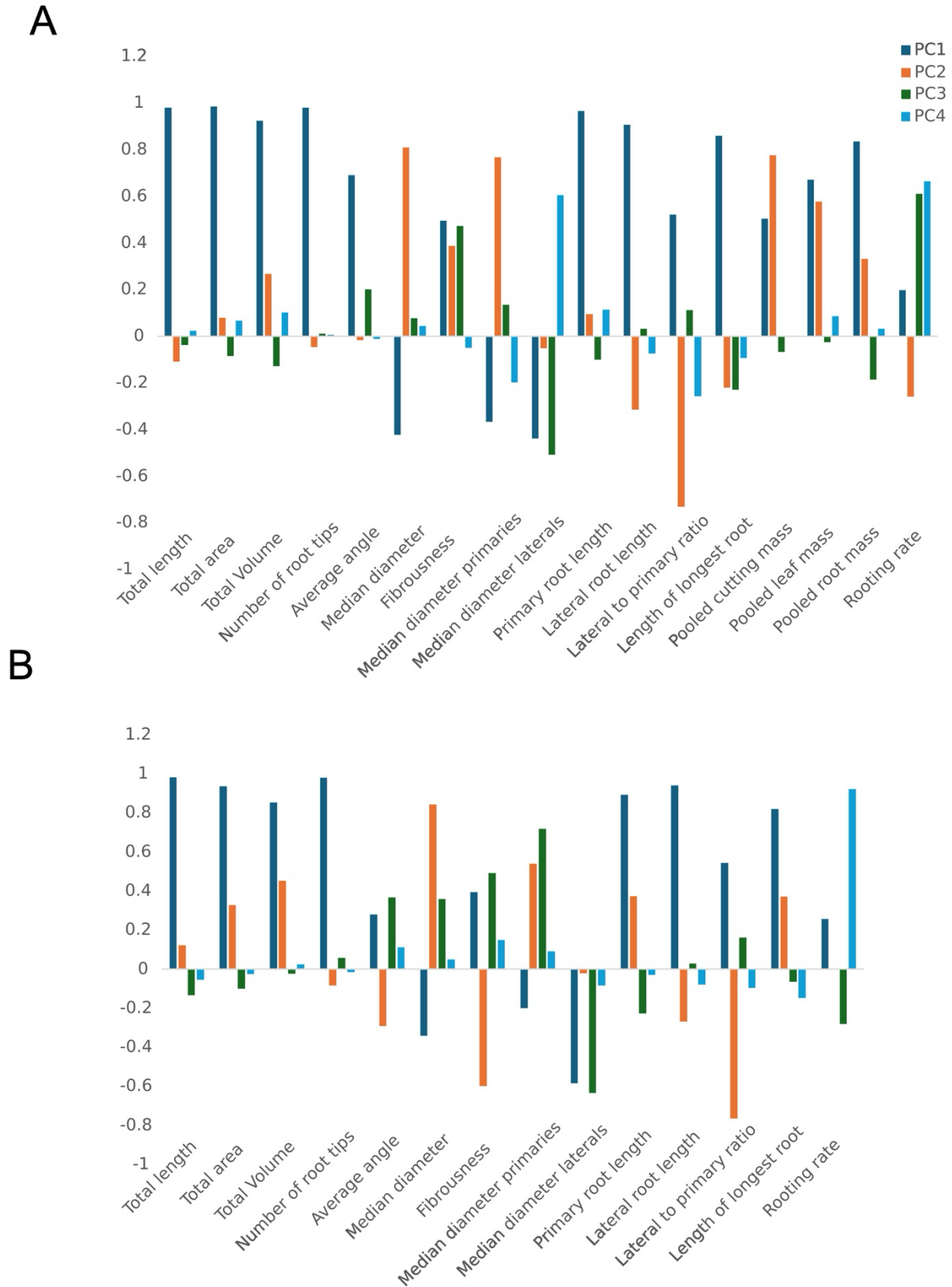


Figure S3. Principal component analysis loadings for principal components 1–4 for both propagation methods. (A) Hardwood principal component loadings. (B) Herbaceous principal component loadings.