

About berry sampling

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Comparison of different sampling methods on Shiraz's vines grown at SupAgro Montpellier experimental vineyard (Mediterranean climate, vines under fertirrigation, training system: Lyre and Double Curtain).

For all sampling methods (figure 1), sampling is done on the morning and afternoon sides of the canopy, among three rows of vines. Vines are relatively homogeneous.

Sampling method 1: One or two berries are sampled at the very top, middle and very bottom of 30 clusters. Analyses are done on 30 berries per bunch position, so a total of 90 berries across the 30 bunches (average-1): results are given for 30 berries per bunch position (top-1, middle-1, bottom-1 and average-1 for the 90 berries; figures 2 & 3).

Sampling method 2: five to eight berries or small branches are sampled at the very top, middle and very bottom of 30 clusters. Analyses are done on around 140-340 berries per bunch position over 30 clusters, so a total of around 670 to 750 berries (Top-2, Middle-2, Bottom-2 and average-2 on figures 2 & 3).

Sampling method 3: 10 full clusters have been analysed on a per cluster basis, bearing around 40 to 150 berries each. The results are the average of the full 10 clusters, so a total of around 765 to 880 berries (clusters on figures 2 & 3).



Figure 1: Sampling method 1: 30 individual berries sampled respectively at top, middle, bottom of 30 clusters; Sampling method 2: group of berries-branches sampled respectively at top, middle, bottom of 30 clusters; Sampling method 3: 10 clusters sampled at random over vines-rows.

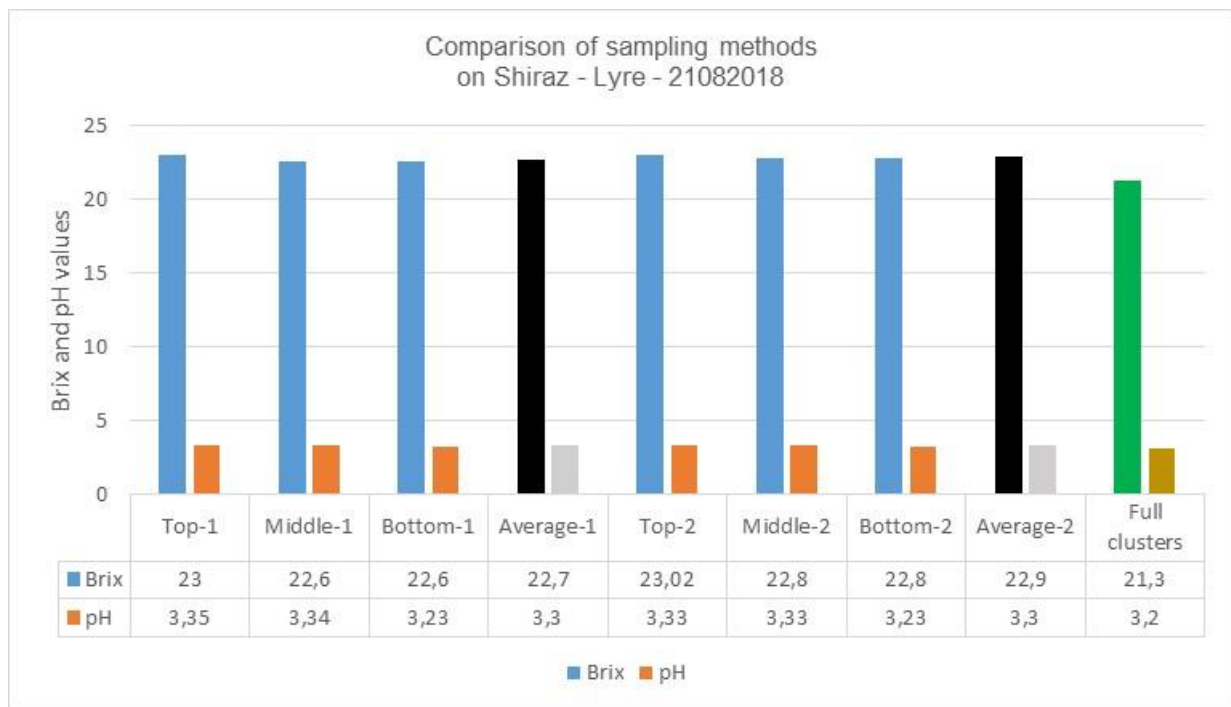


Figure 2: Analytical results for Brix and pH for different sampling methods and the associated berry numbers (Shiraz, Lyre, Montpellier SupAgro experimental vineyard, 210818). Sampling method 1: 30 berries at respectively top, middle and bottom positions of 30 bunches; Sampling method 2: five to eight berries at respectively top, middle and bottom positions of 30 bunches; Sampling method 3: 10 clusters from the same rows and vines.

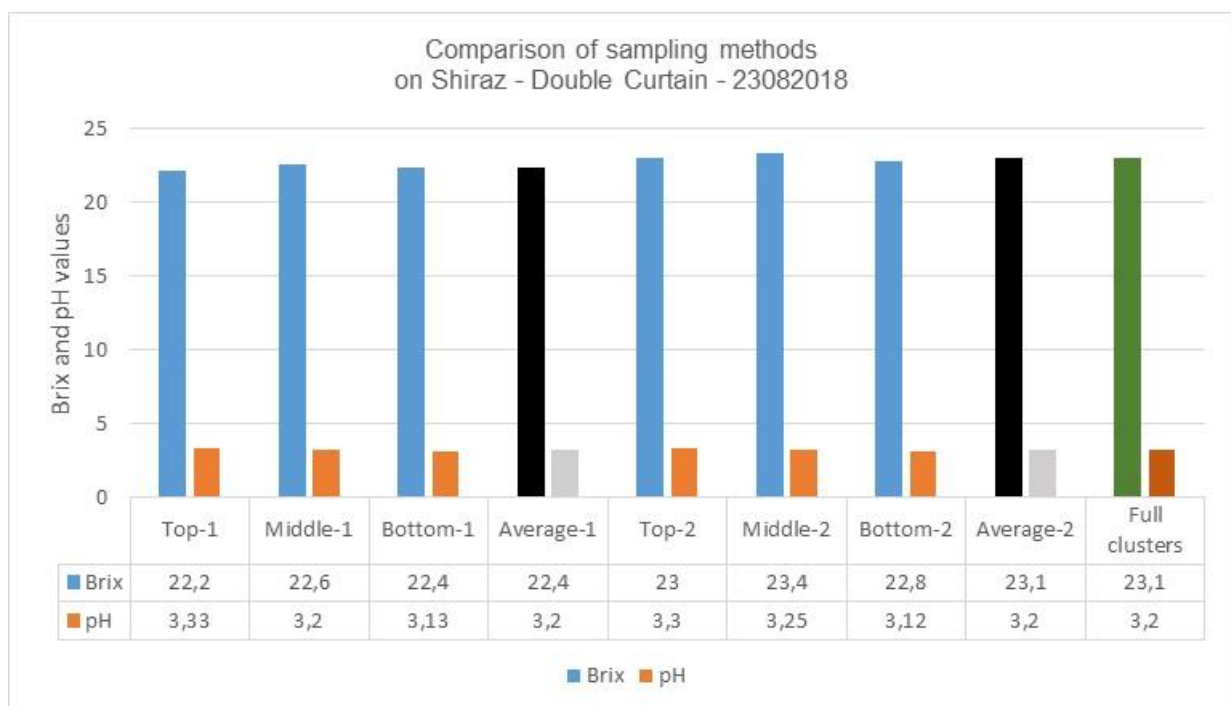


Figure 3: Analytical results for Brix and pH for different sampling methods and the associated berry numbers (Shiraz, Double Curtain, Montpellier SupAgro experimental vineyard, 230818). Sampling method 1: 30 berries at respectively top, middle and bottom positions of 30 bunches; Sampling method

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2: five to eight berries at respectively top, middle and bottom positions of 30 bunches; Sampling method 3: 10 clusters from the same rows and vines.