

Grapevine pruning respecting the sap flow conduction....

Follow the flow !

Simonit & Sirch (<https://simonitesirch.fr>) has developed since many years, some methods for Cordon and Cane pruning allowing to respect the sap flow conduction by avoiding to induce wood/tissue necrosis at the arm and spur levels (spur for Cordon pruning).

We all know that a picture is worth a thousand words, so I invite you to have a look at the joined figures (1, 2 & 3).

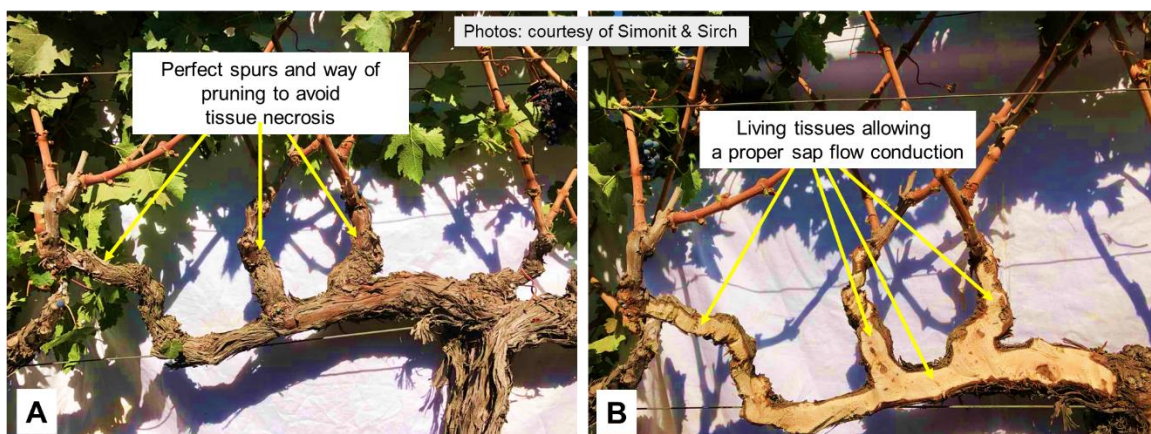
Obvioulsy inappropriate/bad pruning is impacting on vine and vineyard sustainability.

A question which should be addressed is : what is the meaning of vine transpiration and vine water status measurements (pressure chamber, sap flow...), while conducting experimentation and research, on such vines which have an important part of dead wood/tissues in proportion to the remaining living tissues?

Interesting as well to listen to the video « Formation à la taille Poussard - François Dal (SICAVAC) »

<https://www.youtube.com/watch?v=wBKQOAaxqDQ>

Example of a proper Cordon pruning respecting the sap flow conduction, according to Simonit & Sirch method



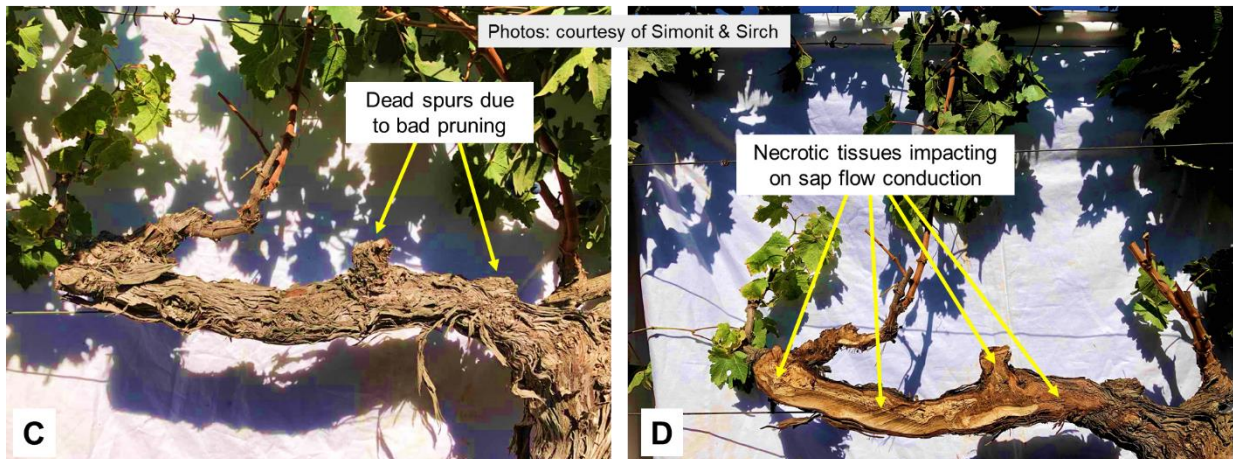
(A) The photo is showing a proper way to prune a Cordon respecting the sap flow conduction by avoiding wood/tissue necrosis (B) at the spur and arm levels.

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A. Deloire and Simonit & Sirch, 2020

*Figure 1 : Example of a proper Cordon pruning allowing a large proportion of living tissues and respecting the sap flow conduction.*

Example of inappropriate Cordon pruning inducing wood necrosis that will interrupte or reduce sap flow conduction

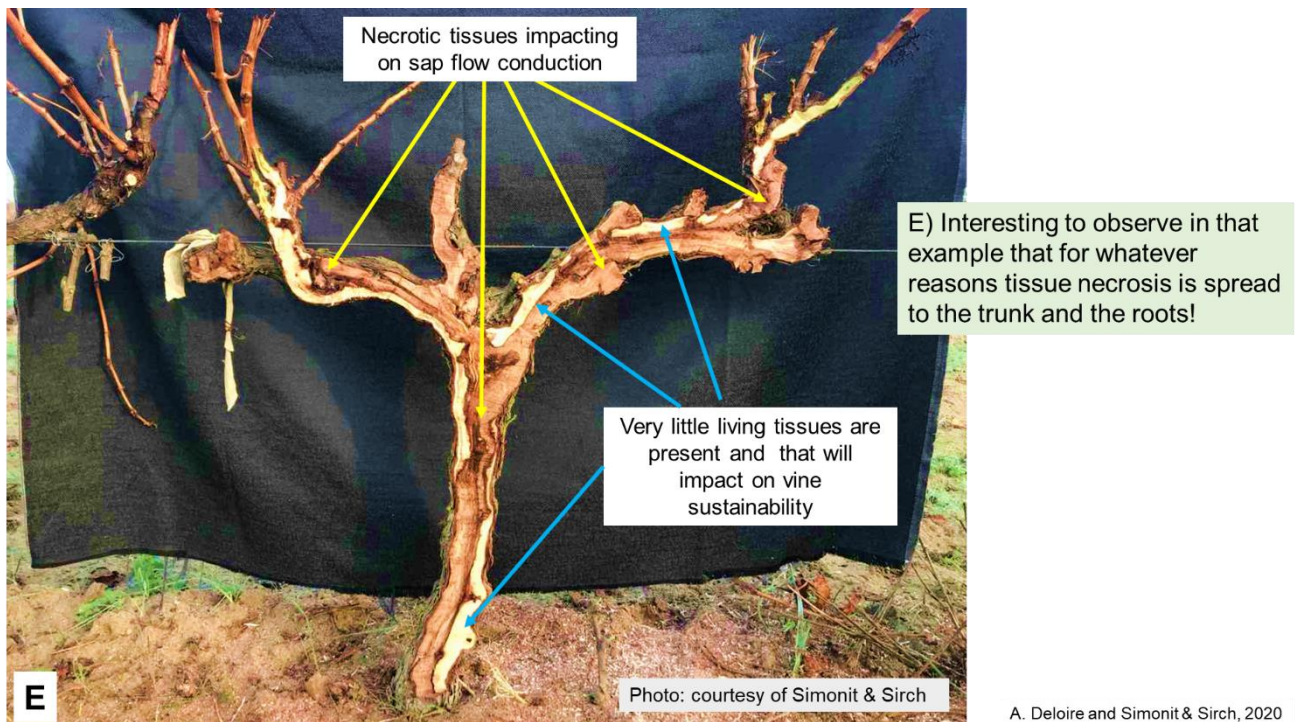


(C) The photo is showing necrotic/dead spurs on a Cordon due to inappropriate/bad pruning.  
D) Bad pruning is inducing wood/tissue necrosis at the spur and arm levels that will impact on sap flow conduction and on vine sustainability

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A. Deloire and Simonit & Sirch, 2020

Figure 2 : Exemple of a bad/inappropriate Cordon pruning leading to a high proportion of dead/necrotic tissues that will impact on sap flow conduction.



A. Deloire and Simonit & Sirch, 2020

Figure 3 : Exemple of a bad/inappropriate Cordon pruning leading to a high proportion of dead/necrotic tissues, including in trunk and roots, that will impact on sap flow conduction.