# Soil management and branch position influencing wine grape physiology: insights from TreeTalkers data on sapflow

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grapevine. Grapevines experience stress responses that can impair photosynthesis and overall productivity.

- the lower sap flow of the treatment does **not affect** either **the reproductive or vegetative** cycles while reducing water demand;
- 2. branch position does not affect thevegetative or reproductive cycles.









### The measurements

Plant's branches are being monitored hourly through TreeTalker sensors for:

- Sap flow velocity in the plant
- Air temperature and humidity, vapor pressure deficit Additionally:
- Measurement of grape yield per branch at harvest
- Measurement of grapes pruning residues

## The data processing

Statistical analyses were conducted performing the correlation analysis and analysis of the variance (ANOVA) to determine significant differences in sap flow density and yield across different plots and branches.

