



Quality from Vine to Wine: Viticultural Decisions

Francisco Diez, MSc.
Viticulture Specialist

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Outline

- Importance of Viticultural Decisions
- Soil Management
- Nutritional Management
- Canopy Management
- Conclusion



Importance of Viticultural Decisions

- What is the goal for the future vineyard?
 - It is important to have a clear vision of the main purpose of the vineyard
- Analysis of the site is crucial when considering vineyard investment



Importance of Viticultural Decisions

- Main parameters involved:
 - Site: climate, soil, topography, sun exposure, etc.
 - Plant material: hybrid, *Vitis vinifera*, grafted or not, growth cycle, clone, etc.
 - Site preparation: pH adjustment, nutritional corrections, drainage, deep ripping, etc.
- Keep records of vineyard stages and activities



Soil Management

1. Soil assessment:

- Analysis of limitations: compaction, absence of horizons, shallow, slope, etc.
- Chemical analysis: pH, macro and micro nutrients, nutrient balance, organic matter, etc.
- Drainage?



Soil Management

2. Soil preparation

- Destroy the compacted layers
- Establish drainage
- Balance pH and nutrients



Soil Management

3. Management

- Weed management
- De-compaction
- Balance pH and nutrients: maintenance applications
- Soil analysis by variety



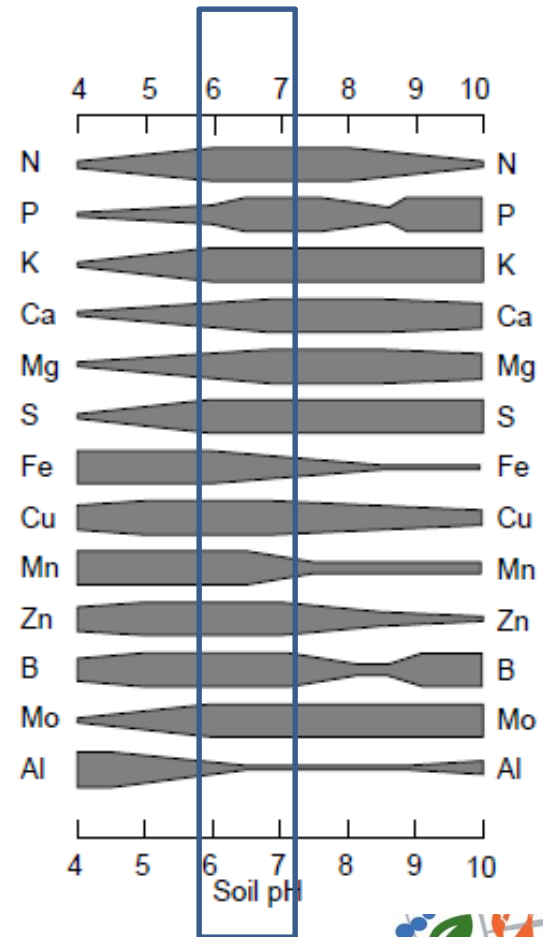
Nutritional Management

- Demand for nutrients will change depending on the physiological stage
- Importance of tissue sampling
 - At bloom and veraison
 - It is possible to evaluate the nutritional condition
 - It should be carried out, and the results considered, by variety



Nutritional Management

- pH importance and relevance
- Balance of nutrients:
 - K/Mg or K/Ca
- Relevance of Potassium:
 - In terms of viticulture
 - In terms of winemaking



Canopy Management

- The leaves have an important role to produce sugar and provide reserves to the grapevines
 - The proper management will impact this season and the following one
 - Development of a full canopy is fundamental
 - Avoid the competition of photosynthates with the crop during ripening



Canopy Management

- Will impact:
 - Fruit production, depending on when it is carried out
 - Fungal diseases
 - Fruit ripening
 - Quality and style of the wine eventually produced



Conclusions

- Before the vineyard is established it is important to know the wine production goals
- Soil is the base of our vineyards and it is necessary to know its limitations
- Nutritional management for the different plant requirements; importance of tissue sampling and impact in winemaking
- Canopy management will decrease the fungal diseases and improve fruit ripeness



THANK YOU FOR YOUR ATTENTION

