



Thesis title:

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Date & location of the oral examination (if known) : December 13, 2016; Udine, Italy

Confidential: Yes No

Abstract (max 300 words)

Topic position & objectives:

Mexico is considered a New World wine country; it has a long history of wine making and it is considered the oldest wine growing region of America. The main producing area, The Valle de Guadalupe located in Baja California, produces over 80% of the Mexican wines and it has been named by the Wine Explorers Project "The Star of Tomorrow" due to its great wines and potential. However, the literature on Mexican Wine is scarce.

The objective of this thesis is the projection of a winery with his own vineyard in the Region of the Valle de Guadalupe, Mexico, that aligns with the terroir, production needs and the market demand of the Mexican consumer.

Methods:

This study proposes an analysis the soil characteristics and composition of a designated 10 hectare study area in the Valle de Guadalupe. As well ,an analysis of the weather data available from the local weather station, in combination with the literature available and previous studies of the area, to create the baselines for the selection of the adequate varieties and wine styles according to consumers needs. With the final goal to propose a desing of a facility that adapts to the market and production needs.

Results:

The Results of the weather and soil studies yield the area as a Region IV in the Winkler scale with a manly Clay Loam soil, high in organic matter. Based on this six different varieties to produce 4 different wine styles were proposed. With 8 out of the 10 hectares dedicated for vine plantation, of which 2 hectares designated for experimentation purposes. With a final yearly bottle production of 32,000 a Winery layout of over 1,000 m², divided in 3 levels to create a semi-gravitational design is proposed.

Main conclusions:

The studied area seems as an optimal location in the Valle de Guadalupe wine region for a construction of a winery and plantation of the vineyard. Nevertheless, there is still a lot of research opportunities for continuous improvement to assure a sustainable future in this up and coming wine region.

Keywords (5):

Valle de Guadalupe, Winery design, Terroir studies, Mexican Wine, Baja Wines.

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