

B3: Efficient use of fertilizers in the vineyard

The foliar analysis determines the amount of nutrients that the plant has absorbed and is the best way to know the deficiencies of the crops. Although the appearance of a crop is good, it is possible that some of the nutrients are not found in sufficient quantity, and a satisfactory development is not carried out. In combination with soil analysis allows us to detect nutritional problems and to develop adequate fertilization plans. Recommendations will be made to eliminate macro and micronutrient deficiencies.

Between November 2016 and August 2017 224 samples were collected (soil and leaves), from 30 wineries and 20 vine growers.

D.O. Montsant	
Wineries	18
Vine growers	11
Leaves samples	124
Soil samples	2
TOTAL SAMPLES	126

D.O.Q. Priorat	
Wineries	12
Vine growers	9
Leaves samples	79
Soil samples	19
TOTAL SAMPLES	98

TOTAL B3	
Wineries	30
Vine growers	20
Leaves samples	203
Soil samples	21
TOTAL SAMPLES	224

Table 4: B3 participants and samples collected between Nov 2016 and Aug 2017



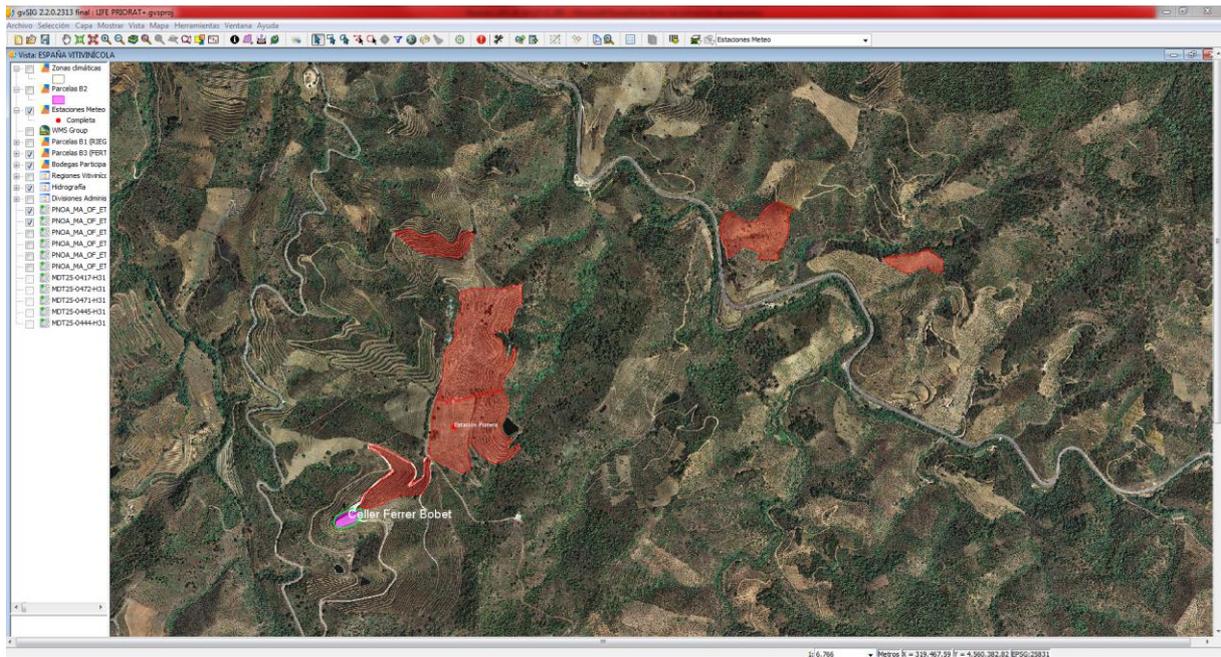
Picture 10: Leaves collection for foliar analysis

During the period considered, fertilization control was carried out in a total of 197 vineyards in the Priorat region. From the analytical results of the samples, a total of 54 technical reports with recommendations of dose of fertilizer to provide were sent by VITEC.

Vineyards under fertiliser control location summary								
Winery/vine grower	Winery	Vine grower	Leaves samples	Soil samples	Monitored vineyards	Technical reports	Vineyard Location	D.O.
Finca Fonatanals	x			1	1	1	Falset	D.O. Montsant
Mas de la abundancia	x		1	1	1	1	El Masroig	D.O. Montsant
Orto Vins	x		27		14	2	El Masroig	D.O. Montsant
Vinyes Domenech	x		3		3	1	Capçanes	D.O. Montsant
Albert Juan Pere		x	5		5	1	Falset	D.O. Montsant
Manuel Sales		x	2		2	1	El Guiamets	D.O. Montsant
Celler Capçanes	x		5		5	1	Capçanes	D.O. Montsant
Terra Persones	x		4		4	1	El Molar	D.O. Montsant
Celler la Placeta	x		4		4	1	El Guiamets	D.O. Montsant
Clos Meshora	x		6		6	1	Marça	D.O. Montsant
Coca i Fito	x		4		4	1	Masroig	D.O. Montsant
José Carlos Ríos		x	3		3	1	Capsanes	D.O. Montsant
Beatriz otero		x	2		2	1	El Masroig	D.O. Montsant
Celler de l'Era	x		8		8	1	Cornudella	D.O. Montsant
Maius Viticultors	x		3		3	1	La Morera de Montsant	D.O. Montsant
Celler Vendrell Rived	x		5		5	1	Marça	D.O. Montsant
Carles Escolar		x	4		4	1	El Masroig	D.O. Montsant
Celler Cingles Blaus	x		6		6	1	Cornudella de Montsant	D.O. Montsant
Maria Vernet		x	4		4	1	El Masroig	D.O. Montsant
Celler Cedó Anguera	x		4		4	1	Serra d'Almos	D.O. Montsant
Celler Sant Rafel	x		3		3	1	Pradell de la Teixeta	D.O. Montsant
Cooperativa de Falset	x		12		12	1	Falset-Marça	D.O. Montsant
Celler Serra Major	x		2		2	1	Ulldemolins	D.O. Montsant
Celler Ronadelles	x		1		1	1	Cornudella de Montsant	D.O. Montsant
Josep Rofes		x	1		1	1	La Torre de Fontaubella	D.O. Montsant
Xavi Palleja		x	2		2	1	Falset	D.O. Montsant
Francesc Cumplido		x	1		1	1	Falset	D.O. Montsant
Sents Bargallo Pere		x	1		1	1	El Masroig	D.O. Montsant
Josep Maria Cots Montlleo		x	1		1	1	Falset	D.O. Montsant
Celler Buil & Giné	x			3	3	1	El Molar	D.O.Q. Priorat
Celler Marco Abella	x			1	1	1	Porrera	D.O.Q. Priorat
Celler Mas Doix	x		9	3	11	2	Poboleda	D.O.Q. Priorat
Ferrer Bobet	x		10	6	10	2	Porrera	D.O.Q. Priorat
Viticultors Mas d'en Gil	x		6	6	6	2	Bellmunt del Priorat	D.O.Q. Priorat
Albert Montalvo		x	4		4	1	Porrera	D.O.Q. Priorat
Enric Amoros		x	1		1	1	El Molar	D.O.Q. Priorat
Cesca Vicent	x		6		6	1	Gratallops	D.O.Q. Priorat
Josep Barcelo Cabré		x	2		2	1	Bellmunt del Priorat	D.O.Q. Priorat
Maruxa Roel		x	3		3	1	Bellmunt del Priorat	D.O.Q. Priorat
Ramón Marco		x	4		4	1	Bellmunt del Priorat	D.O.Q. Priorat
Clos Figueras	x		7		7	1	Gratallops	D.O.Q. Priorat
Celler Ripoll	x		1		1	1	Gratallops	D.O.Q. Priorat
Paco Rivero		x	2		2	1	La Vilella Baixa	D.O.Q. Priorat
Epicure Wines	x		4		4	1	Torroja del Priorat	D.O.Q. Priorat
Celler Scaladei	x		8		8	1	Poboleda	D.O.Q. Priorat
Jaume Bargallo Grau		x	3		3	1	Porrera	D.O.Q. Priorat
Criville i Valls	x		2		2	1	Poboleda	D.O.Q. Priorat
Portal del Priorat	x		3		3	1	Gratallops	D.O.Q. Priorat
Ramón Vidal Borrás		x	2		2	1	Bellmunt del Priorat	D.O.Q. Priorat
Miguel Caldentey		x	2		2	1	Falset	D.O.Q. Priorat

Table 5: Vineyards under fertiliser control location summary

In addition, vineyards under fertiliser control have been incorporated into a GIS, geographic information system, with the purpose of favouring the visualization and at the same time being able to organize all the data that is obtained from each of them in B3 action and at the same time it can be crossed with data obtained in the rest of the technical actions of the project.



Picture 11: Vineyards under fertiliser control. Ferrer Bobet soil samples In GIS software