

**DIAGNOSIS OF THE CURRENT VITICULTURAL SITUATION
IN THE GETIC PLATEAU**

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ABSTRACT

The paper highlights the grapevine growing units from counties located from the geographical point of view in the Getic Plateau. A number of 12 units were identified in Argeș, 4 in Olt, 9 in Vâlcea, 10 in Dolj, and 12 in Mehedinți county, having a total area of 3139.25 ha. From these 47 units registered at the County Agricultural Directions, 3 are public and 44 are private companies. Only one company (private, in Dolj county) cultivates grapevine in an ecological system. In the studied territory there is a large diversity of soils and grapevine varieties. The varieties for wine and table grapes are both from the national and international assortment.

INTRODUCTION

Grapevine culture systems form specific ecosystems together with the environmental conditions, more or less favorable to the growth and fructifications of grapevine plants, and improving of environmental conditions. In order to achieve the best viticultural ecosystems, the technologist duty is to establish the most appropriate culture system for each of ecoclimatic complex factors.

The indirect effects of climate change on resources and ecosystems conditioning an activity induce a level of uncertainty that in viticulture applies in the water supply, pests and diseases (Viguie et al., 2014).

MATERIAL AND METHODS

The viticulture is practiced for thousands of years in România; there are 37 vineyards in our country and the grapevine is cultivated in all geographic areas. Is a culture encountered in Moldova (eg., Odobești, Panciu, Iasi, Husi vineyards), as well as in Muntenia (e.g., Dealu Mare, Ștefănești vineyards), Dobrogea (e.g., Murfatlar Vineyard), Oltenia (e.g., Drăgășani Vineyard) and Transylvania (e.g., Târnave Vineyard) (Order no. 1205/2018).

The situation of viticulture in the Getic Plateau (South of Romania) is presented in this study. In order to accurately find out the situation of the grapevine plantations in the Getic Plateau, official addresses from The National Research and Development Institute for Biotechnology in Horticulture Stefanesti-Ștefănești (INCDBH) were sent to the agricultural directions of Argeș, Dâmbovița, Olt, Vâlcea, Dolj, Mehedinți, Gorj counties, which were asked to inform about the situation of

grapevine plantations maintained in ecologic and in standard system. The agricultural directions of Argeş, Olt, Vâlcea, Mehedinţi, Dolj and Gorj counties responded only. But the Gorj County Agriculture Direction communicated us that there are no viticultural units at Gorj county level.

RESULTS AND DISCUSSIONS

The Hills of Vallachia and Oltenia Viticultural Region corresponds almost entirely with the large unit of hills and hillocks-known geographically under the name of Getic Plateau (or Piedmont). It extends between the Getic Subcarpathians in the North and the Romanian Plain in the South. There are 8 vineyards within this viticultural region (Dealurile Buzăului, Dealu Mare, Ştefăneşti, Sâmbureşti, Drăgăşani, Dealurile Craiovei, Severin and Plaiurile Drîncei), in which several wine centers were distinguished, from which three viticultural centers are independent (Segarcea, Tg. Jiu and Cruşet). The production of wines is quite diversified. With the exception of Sâmbureşti vineyard, predominantly profiled on the red wines production, all other vineyards produce a wide range of white wines, starting from current consumption, up to the superior ones, rightful in the origin denomination and quality levels.

Fortyseven viticultural units were identified in the Getic Plateau, including INCDBH Ştefăneşti-Argeş, Research and Development Station for Viticulture Drăgăşani (SCDVV Drăgăşani) and Research and Development Station for Plant Culture on Sands soils Dăbuleni (SCCPN Dăbuleni). These plantations sum up 3139.25 ha (1694.41 ha - Mehedinţi, 245.86 ha - Argeş, 405.63 ha - Olt, 571.35 ha – Dolj, 222 ha – Vâlcea). The grapevine varieties for wine are both the national (e.g., Fetească Neagră, Tămâioasă Românească, Fetească regală), and international (e.g., Cabernet Sauvignon, Pinot Gris, Sauvignon, Merlot, Muscat Ottonel, Pinot Noir, Riesling of Rhin) assortment. The varieties for table grapes are represented by Victoria, Călina and Muscat of Hamburg, grown in Argeş and Vâlcea counties. The types of the soil are represented by prevosols, typical luvosol, chernozem (in Mehedinţi), podzol, regosol, previsol, typical previsol, planosol (in Argeş), vertic luvosol, luvosol, eucambisol (in Olt), and chernozem, carbonated chernozem, vertic preluvosol (in Vâlcea) (Table 1). Of the mentioned units, only SC EMMEI SRL (Dolj) cultivates grapevines in an ecological system.

Table 1
Situation of vineyards holding companies in the Getic Plateau area registered at the County Agricultural Directions

Companies	Hectares (No.)	Grapevine varieties	Type of soil
MEHEDINŢI County			
SC CARL REH WINERY SRL	259.83	Cabernet Sauvignon, Chardonnay, Fetească Neagră, Cabernet Franc, Pinot Gris, Syrah, Sauvignon, Merlot, Tămâioasă Românească, Dornfelder, Pinot Noir, Zinfandel, Fetească Regală, Riesling of Rhin	Reddish preluvosol
SC VIE VIN VÎNJU MARE SRL	408.96	Cabernet Sauvignon, Chardonnay, Fetească Neagră, Fetească Albă, Syrah, Sauvignon, Merlot, Tămâioasă Românească, Băbească	Reddish preluvosol

Companies	Hectares (No.)	Grapevine varieties	Type of soil
		Neagră, Pinot Noir, Muscat Ottonel, Fetească Regală, Riesling Italian	
SC SEVERINEȘTI VITICOLA SRL	14.50	Cabernet Sauvignon, Cabernet Franc, Fetească Neagră, Fetească Albă, Syrah, Merlot, Fetească Regală	Typical luvosol
PFA BORUGĂ OVIDIU	14.26	Merlot, Cabernet Sauvignon, Fetească Neagră, Chardonnay, Sauvignon	Typical luvosol
PFA PARASCHIVU MARIAN DUMITRU	6.70	Sauvignon, Merlot, Fetească Neagră, Fetească Regală	Eolian psamosol
DHC CO SRL	55.71	Cabernet Sauvignon, Chardonnay, Fetească Neagră, Fetească Albă, Syrah, Sauvignon, Merlot, Tămâioasă Românească, Riesling Italian, Cabernet Franc	Reddish preluvosol
SC CKS ARADIUS SRL	46.26	Cabernet Sauvignon, Chardonnay, Fetească Neagră, Fetească Albă, Syrah, Sauvignon, Merlot, Pinot Gris, Pinot Noir	Reddish preluvosol
SC DOMAINE VINARTE SRL	193.93	Cabernet Sauvignon, Fetească Neagră, Fetească Albă, Sauvignon, Merlot, Fetească Regală, Riesling Italian, Tămâioasă Românească, Băbească Neagră, Novac, Negru de Drăgășani	Eolian psamosol
SC VITICOLA CORCOVA SRL	74.69	Cabernet Sauvignon, Syrah, Merlot, Chardonnay, Muscat Ottonel, Pinot Noir, Sauvignon, Viognier	Typical luvosol
D & G AGRICOLTURE ENTERPRISE SRL	238.13	Cabernet Sauvignon, Merlot, Chardonnay, Sauvignon, Pinot Gris, Pinot Noir	Reddish preluvosol + chernozem
SC TECNOGREEN SRL	235.6	Cabernet Sauvignon, Fetească Neagră, Fetească Albă, Muscat Ottonel, Sauvignon, Pinot Gris, Riesling Italian	Reddish preluvosol + chernozem
SC DANDUI VIOLETA SRL	145.84	Chardonnay, Tămâioasă Românească, Sauvignon, Merlot, Cabernet Sauvignon, Pinot Noir, Fetească Neagră, Pinot Gris	Reddish preluvosol
ARGEȘ County			
SC BORELO COMPACT SRL	24.03	Riesling Italian, Muscat of Hamburg, Victoria	Reddish-brown forest, vertisol, Podzols
BOȚĂRCĂ GHEORGHIȚĂ	7.23	Fetească Regală	Stagnic and/or epistatic white luvosols, geoderic regosols
SC Casa de Vinuri Ștefănești	25.23	Fetească Regală, Fetească Albă, Fetească Neagră, Sauvignon, Chardonnay, Tămâioasă Românească, Riesling of Rhin	Regosol, aluviosol, umbrisols with the eutricambisol type, typical preluvisol, luvosol

Companies	Hectares (No.)	Grapevine varieties	Type of soil
CONSTRUCT CATY SRL"	5.1	Cabernet Sauvignon, Merlot, Fetească Neagră, Pinot Gris, Fetească Regală	Argilluvic (podzolic, brown lessive, brown-podzalic), acid brown
SC Casa de Vinuri Cramele Ștefănești Titan SRL	5.1	Fetească Regală, Sauvignon, Merlot, Riesling Italian	Brown, argilluvic, luvic brown, regosols, erodisols
SC DIAFIN COMPANY 2006 SRL	12.48	Riesling Italian	Reddish-brown forest, vertisol, podzols
BELCHITA GEORGEEDUARD i.i.	1.65	Muscat Ottonel	-
Lazar Gheorghe	10.62	Chardonnay, Cabernet Sauvignon, Pinot Noir Fetească Neagră	Red brown of the forest, vertisol, podzols
SC M.GH. VITIS PRODUCT SRL	8.01	Fetească Regală, Riesling Italian, Burgund Mare, Merlot, Aligoté, Muscat of Hamburg, Fetească Albă	Stagnic and/or epistagnic albic luvosols, Geoerodic regosols
Teleleu S. Alexandru	4.24	Chardonnay, Fetească Neagră	Reddish-brown forest, vertisol, podzols
SC ZORBA COMPANY SRL"	7.63	Pinot Noir, Sauvignon	-
INCDBH Ștefănești	134.54	Fetească Regală, Riesling, Burgund Mare, Blauer, Victoria, Augusta, Argessis, Cabernet Sauvignon, Merlot, Tămâioasă Românească, Sauvignon, Chardonnay, Fetească Neagră, Șarbă, Pinot Noir	Regosol, aluviosol, umbrisols with eutricambisol type, typical preluvisol, typical luvosol, albic luvosol, planosol, antrosol.
Olt County			
SC VITIPOMICOLA SÂMBUREȘTI SA (Farms: Campu Mare, Sâmburești 1, Sâmburești 2)	280.01	Sauvignon Blanc, Chardonnay, Cabernet Sauvignon, Merlot, Fetească Neagră, Pinot Noir, Fetească Regală	Beta-calcaric reddish luvisol, stagnic reddish luvosol, reddish luvosol, vertic reddish luvosol, preluvosol, luvosol, pluvosol, erodisol
SC DOMAINE VINARTE SA DOBROTEASA (Farm: Bolovanu)	39.33	Cabernet Sauvignon, Merlot, Cabernet Franc	Beta-calcaric reddish luvisol
SC VICTORIA INTERMED SRL (Farm: Cârlogani/ Cepar)	18.62	Negru de Dragășani, Pinot Noir, Fetească Neagră, Cabernet Sauvignon, Crâmpoșie Selecționată, Riesling Italian, Sauvignon Blanc Chardonnay, Tămâioasă Românească	Stagnic luvisol, low stagno-gleization, Low - moderate soils supplied in humus.
SC DOMENIILE MENNINI SRL (Farm: Strejești/ Colibași)	67.67	Cabernet Sauvignon, Merlot, Negru de Dragășani, Pinot Noir, Burgund Mare, Muscat Ottonel, Tămâioasă Românească, Chardonnay, Sauvignon Blanc, Crâmpoșie Selecționată, Fetească Regală, Fetească albă	Typical preluvosol, eutricambisol with medium clay / loamy clay. Moderate humification process, relatively small amount of humus below 2%.
DOLJ County			
SC DOMENIUL COROANEI	203	Sauvignon, Fetească Albă, Fetească Regală, Tămâioasă	Carbonated chernozem

Companies	Hectares (No.)	Grapevine varieties	Type of soil
SEGARCEA SRL, Segarcea		Roză, Cabernet Sauvignon, Merlot, Cabernet Franc, Chardonnay, Fetească Neagră, Pinot Noir, Syrah, Tămâioasă Românească, Marselan, Vioigner	
SCMD AGRICOLA SRL, Galicea Mare	50	Cabernet Sauvignon, Merlot, Fetească Neagră, Fetească Albă, Pinot Gris, Tămâioasă Românească	Chernozem
SC VIE VIN SEGARCEA SRL, Segarcea and Breasta	85.22	Cabernet Sauvignon, Merlot, Fetească Albă, Riesling Italian, Sauvignon, Tămâioasă Românească	Carbonated chernozem/ Vertic preluvosol
RDSPCS Dăbuleni	13	Riesling Italian, Fetească Neagră	Psamosol
SC CERVINA SA, Segarcea	74	Chardonnay, Cabernet Sauvignon, Merlot, Pinot Noir	Carbonated chernozem
ARHIEPISCOPIA CRAIOVEI, Segarcea	-	Cabernet Sauvignon, Merlot, Sauvignon, Tămâioasă Românească	Carbonated chernozem
SCV INC SRL, Dranic	18.4	Merlot, Cabernet Sauvignon, Tămâioasă Românească, Sauvignon	Chernozem
SC Sanvino Prod SRL, Breasta	35.2	Cabernet Sauvignon, Fetească Albă, Fetească Neagră, Merlot, Sauvignon, Syrah, Tămâioasă Românească	Reddish-brown forest
SC Seara pe Deal SRL, Cetate	52.53	Sauvignon Blanc, Chardonnay, Riesling Italian, Muscat Ottonel, Merlot, Cabernet Sauvignon, Pinot Noir	Argic chernozem/ argic chernozem with clayey texture
SC EMMEI SRL, Argetoaia	40	Chardonnay, Merlot	Vertic stagnic luvosol/ Vertic preluvosol
VALCEA County			
SC AX SRL	13	Cabernet Sauvignon, Merlot, Sauvignon, Fetească Regală, Pinot Gris, Tămâioasă Românească	Not have these data at the level of the institution
SC MAR SRL	22	Crâmpoșie Selecționată, Tămâioasă Românească, Sauvignon, Negru de Drăgășani, Fetească Regală, Cabernet Sauvignon, Merlot, Syrah	Not have these data at the level of the institution
SC CRAMA SPÎRLENI SRL	24	Crâmpoșie Selecționată, Chardonnay, Cabernet Sauvignon, Sauvignon, Fetească Regală, Crâmpoșie, Negru de Drăgășani, Pinot Gris	Not have these data at the level of the institution
SC VINERIA SPÎRLENI SRL	9	Fetească Neagră, Crâmpoșie Selecționată, Fetească Regală, Sauvignon, Cabernet Sauvignon, Tămâioasă Românească	Not have these data at the level of the institution
SC AGRICOLA STIRBEI SRL	38	Merlot, Sauvignon, Novac, Negru de Drăgășani, Cabernet Sauvignon, Crâmpoșie Selecționată, Tămâioasă Românească, Fetească Regală	Not have these data at the level of the institution

Companies	Hectares (No.)	Grapevine varieties	Type of soil
SC AVINCIS VINURI SRL	70	Fetească Neagră, Negru de Drăgășani, Fetească Regală, Tămâioasă Românească, Crâmpoșie Selecționată, Cabernet Sauvignon, Sauvignon, Merlot, Pinot Noir, Pinot Gris, Alutus, Muscat Ottonel	Not have these data at the level of the institution
SC MĂGURENI SRL	16	Cabernet Sauvignon, Pinot Gris, Negru de Drăgășani, Crâmpoșie Selecționată, Tămâioasă Românească, Victoria	Not have these data at the level of the institution
SC AGRICOLA GIRUETA SRL	7	Merlot, Sauvignon, Pinot Gris, Cabernet Franc	Not have these data at the level of the institution
SCDVV DRĂGĂȘANI	23.00	Victoria, Călina, Novac, Crâmpoșie Selecționată, Riesling Italian, Sauvignon, Cabernet Sauvignon	Brown eumezobasic, reddish brown with skeleton, brown podzolite and pseudogleized, carbonated pseudorendzine

CONCLUSIONS

The viticulture is well represented in the Getic Plateau, being identified 47 grapevine growing units in 5 counties (Argeș, Olt, Vâlcea, Dolj, Mehedinți), including 3 public institution (National Research and Development Institute for Biotechnology în Horticulture Ștefănești-Argeș, Research and Development Station for Viticulture Drăgășani and Research and Development Station for Plant Culture on Sands soils Dăbuleni. Of these units, only SC EMMEI SRL (Dolj county) cultivates grapevines in an ecological system.

The grapevine varieties for wine are both the national (e.g., Fetească neagră, Tămâioasă Românească, Fetească regală), and international (e.g., Cabernet Sauvignon, Pinot Gris, Sauvignon, Merlot, Muscat Ottonel, Pinot Noir, Riesling of Rhin) assortment. The varieties for table grapes are represented by Victoria, Călina and Muscat of Hamburg.

The main types of the soil in the grapevine plantations of Getic Plateau are represented by prevosols, luvosols, chernozems, podzols, regosols, previsols, planosol, eucambisols.

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