

Soil map of Sauternes

Barsac - Bommes - Fargues - Preignac - Sauternes

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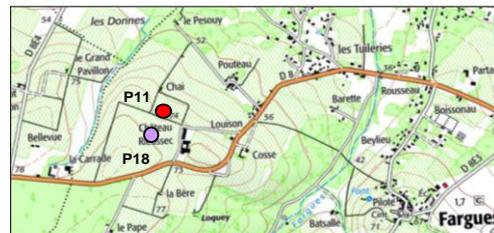
PROFILE 11

FARGUES ; Site name: "Chai Rieussec"

X : L93 : 436 892 m – Y : L93 : 6387 935 m

COLLUVIOSOL

Silty and sand "luvique et rédoxique" at depth



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Analytical results

Horizon	Depth (cm)	Particle size (‰)					Course elements (%)	Organic matter (OM)		
		Clay	Fine silt	Course silt	Fine sand	Course sand		OM (‰)	N (‰)	C/N
LJs	0 - 30	38	56	127	135	628	5	1.74	0.09	11.2
Js	30 - 90	64	52	102	104	674	10	0.45	0.03	8.7
Jp	90 - 150	47	13	62	79	794	25	0.42	0.02	10.4
C	150 - 180	64	34	43	91	763	-	0.51	0.02	15

Vines: Sauvignon blanc / PG 101-14

Soil with a strong sandy tendency, coming from colluvium, not sensitive to settlement but very porous,

Meso-saturated acid soil (pH around 6.7),

Soil not rich in mineral elements: return the pruned wood and monitor fertilization,

Average water reserve (around 80 mm) due to the sandy texture and coarse elements: risk of summer water stress,

Correct organic matter content, but to be monitored if pH is raised by amendments.

Profondeur (cm)	Soil water pH	pH KCl	Limestone total (‰)	P ₂ O ₅	Exchangeable cations (Cmol/kg)					CEC sat. (%)
					Ca	Mg	K	Na	CEC	
0 - 30	6.79	5.93	-	-	3.50	0.58	0.20	0.05	3.57	43.3
30 - 90	6.73	5.8	-	-	1.79	0.31	0.10	0.03	1.81	22.2
90 - 150	6.69	5.76	-	-	1.79	0.14	0.08	0.03	1.8	20.4
150 - 180	6.7	5.78	-	-	1.85	0.18	0.13	0.03	1.8	21.9



MORPHOLOGICAL DESCRIPTION

0 - 30 cm : Sandy colluvial organic-mineral horizon, disturbed by tillage. Clean brown to gray brown (10YR 3/6), porous, particulate, and loose; fresh; low in organic matter; anthropogenic and reworked horizon with a straight, sharp, and continuous boundary.

30 - 90 cm : Sandy horizon of eolian and colluvial origin; light grey brown; porous, particulate, loose and fresh; some coarse quartz elements; presence of a few roots in the upper part of the horizon; unclear and oblique boundary over 5 cm.

90 - 150 cm : Sandy to coarse sandy horizon; light beige to light gray color; presence of horizontal wavy leaching veins; porous, particulate, loose and fresh; no visible roots; presence of coarse quartz elements (20 to 25%).

150 - + cm : Quaternary alluvial sandy to sandy-clay bedrock, variegated; presence of fine and medium healthy roots.

AGRONOMIC COMMENTS

Deep sandy soil. not drained and not sensitive to compaction. Located in a thalweg trough facing SW/NE with risks of late frosts and frequent yield losses. The very high porosity favors the rapid flow of rainwater. It limits the water supply and hinders the development of noble rot at the end of the summer/beginning of the fall.

Soil with a very low viticultural potential with risks of production of big and insipid berries. Soil water holding capacity close to 80 mm with risks of summer hydric stress in the context of climatic change; "thin" soil with a correct organic matter content, but to be watched. Possible grape variety: Sauvignon blanc. Possible rootstocks: 101-14MGt. A basic fertilization to be carried out if planted, although planting not recommended.

