

Soil map of Sauternes

Barsac - Bommes - Fargues - Preignac - Sauternes

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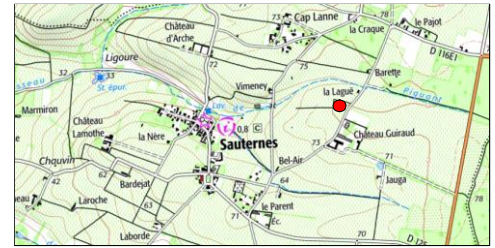
PROFILE 18

SAUTERNES; Location name: "La Laguè"

X : L93 : 435 087 m – Y : L93 : 6 387 394 m

PEYROSOL

sandy-clay with pebbles from high terraces



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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
A	0 – 60	117	43	57	154	629	46.2	14.8	0.81	10.6
S	60 - 120	254	41	16	242	447	14.8	2.58	0.40	3.8
M	120 - 175	326	124	39	236	275	1.6	2.24	0.48	2.7

Vines pulled out

Gravelly-sandy soil, not sensitive to compaction,

Calcium status too low (pH close to 6.0) to be corrected by calcareous amendment,

High P₂O₅ content at the surface (up to 50 cm deep),

MgO content: low at the surface, but higher at depth,

Organic matter content just right, to be monitored and maintained.

Depth (cm)	Soil water pH	pH KCl	Limestone total (‰)	P ₂ O ₅ (‰)	Exchangeable cations (Cmol/kg)					CEC sat. (%)
					Ca	Mg	K	Na	CEC	
0 - 60	6.2	6.1	0	0.22	1.15	0.16	0.13	0.01	5.8	25%
60 - 120	4.8	3.9	0	0.02	1.20	0.18	0.09	0.01	8.8	17%
120 - 175	4.6	3.6	0	0.02	1.03	0.46	0.11	0.04	12.9	13%



MORPHOLOGICAL DESCRIPTION

00 - 60 cm : L_{Ax}. Sandy-silt gravels (SL), brown (10YR4/3); very clear particle structure; loose, very friable, porous, fresh; few roots, any orientation; numerous quartz pebbles (>40%); undulating transition (6 cm).

60 - 120 cm : S. Clayey sand (SA), yellowish beige (25Y6/4); very clear particle structure; loose, very friable, porous, fresh; very few roots, vertical; some quartz pebbles (<15%); smooth transition (6 cm).

120 - 175 cm : M. Sandy clay (AS), orange (75YR5/8) with many gray patches (25Y7/4-6/4); very clear continuous structure; compact, brittle and very hard, not very porous, dry; no roots; few quartz pebbles (<2%)

AGRONOMIC COMMENTS

Light and gravelly soil (> 40%) on the surface, becoming more clayey towards 120-130 cm, with pebbles (10%), not sensitive to compaction and capping, with moderate natural drainage, resting at depth (towards 120-130 cm) on a more compact sandy-clay level with little EG.

The porosity decreases progressively from 60 cm; the deep horizon M presents a structure and a hydromorphy *a priori* less structure and hydromorphy less favorable to root exploration.

Soil with favorable viticultural potential, but limited by the soil water holding capacity (around 180 mm), with a hydromorphy not very limiting; organic matter rate to be maintained, and to be monitored.

