

Tables

Table 1

Test features and sampling procedure.

	Rousset	Hermitage	Pissos
Estimated generation	P0	G0	G1
Plantation year	1974	1975	1992
Age at sampling time	30	29	12
Families	74	261	129
Complete blocks	5	4	5
Trees per plot	3 to 19	3, 6 or 9	10
Seedlings	bare-roots	bare-roots	containers
Plantation density	4m * 1.1m	4m * 1.1m	4m * 2m
Sampling procedure			
families	44	51	51
trees per family	11 to 17	10 to 12	14 to 15
increment cores	625	532	764

Table 2

Mean annual values of heritability for wood density considering bark-to-pith and pith-to-bark.

	Bark-to-pith indexing		Pith-to-bark indexing	
	h^2 (se)	CV_R	h^2 (se)	CV_R
Rousset	0.47 (0.15)	7.3	0.42 (0.15)	7.9
Hermitage	0.21(0.12)	8.5	0.17 (0.12)	9.2
Pissos	0.43 (0.14)	6.7	0.39 (0.14)	7.1

Table 3

Variability parameters estimated with cumulative data for growth and wood density at tree age 12 (standard errors of estimates are within brackets).

RW: ring width

RD: ring density

h^2 : heritability

CV_A : additive genetic coefficient of variation (%)

CV_P : phenotypic coefficient of variation (%)

		RW	RD
h^2	Rousset	0.33 (0.15)	0.53 (0.18)
	Hermitage	0.17 (0.14)	0.35 (0.16)
	Pissos	0.39 (0.14)	0.61 (0.16)
CV_A	Rousset	12.5 (2.9)	5.5 (1.0)
	Hermitage	8.7 (3.7)	4.2 (1.0)
	Pissos	10.6 (2.1)	5.5 (0.8)
CV_P	Rousset	21.8 (0.7)	7.5 (0.3)
	Hermitage	20.8 (0.7)	7.0 (0.2)
	Pissos	17.1 (0.5)	7.0 (0.2)

Table 4

Correlations between wood density and selected traits in the three progeny tests (from Bouffier et al. 2008*b* submitted).

Standard errors of estimates are within brackets and * indicates a value significantly different from 0 ($p < 0.05$)

RD: ring density

H: total height

D: girth at breast height

S: stem deviation to verticality

	Tests	Phenotypic correlation	Genetic correlation
RD - H	Rousset	0.04 (0.05)	- 0.32 (0.27)
	Hermitage	0.02 (0.05)	- 0.13 (0.31)
	Pissos	0.13 (0.04) *	- 0.24 (0.26)
RD - D	Rousset	- 0.02 (0.04)	- 0.35 (0.27)
	Hermitage	- 0.10 (0.05) *	- 0.15 (0.92)
	Pissos	- 0.10 (0.04) *	- 0.41 (0.31)
RD - S	Rousset	- 0.02 (0.04)	- 0.24 (0.61)
	Hermitage	0.00 (0.05)	- 0.05 (0.71)
	Pissos	0.00 (0.04)	0.07 (0.21)