

Supplementary Information to “Physical and mechanical properties of wood from species with potential for wider planting in Great Britain”

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Supplementary Tables

Table A1: Parameters obtained for the nonlinear mixed model for the radial variation in MOE (Equation 1).

Parameter	Value	Std. error
α_1 European Silver fir	-7.977821***	0.26058
α_1 Grand fir	-10.45661***	1.047022
α_1 Caucasian fir	-13.309626***	3.561049
α_1 Pacific silver fir	-4.944789***	0.253311
α_1 Japanese red cedar	-3.627011***	0.511734
α_1 Serbian spruce	0.154652***	0.00788402
α_1 Sycamore	-3.405013***	0.255849
α_1 Silver birch	-7.535571***	0.654283
α_2 European Silver fir	-0.068397***	0.005818
α_2 Grand fir	-0.03302***	0.005426
α_2 Caucasian fir	-0.041288*	0.019121
α_2 Pacific silver fir	-0.069135***	0.010924
α_2 Japanese red cedar	-0.094087**	0.032276
α_2 Serbian spruce	NA	NA
α_2 Sycamore	-0.164054***	0.020823
α_2 Silver birch	-0.054036***	0.011878
α_3 European Silver fir	11.982291***	0.652182
α_3 Grand fir	14.26699***	1.181891
α_3 Caucasian fir	16.765401***	3.889012
α_3 Pacific silver fir	9.083769***	0.449736
α_3 Japanese red cedar	5.823202***	0.466851
α_3 Serbian spruce	5.322262***	0.24460346
α_3 Sycamore	9.761186***	0.16089024
α_3 Silver birch	14.379754***	0.830555

Serbian spruce model α_1^* Age + α_3 . p value: *** < 0.001, ** < 0.01, * < 0.05.

Table A2: Parameters obtained for the linear mixed model for the radial variation in MOR (Equation 2).

Parameter	Value	Std. error
α_4 European Silver fir	1.40034***	0.048924
α_4 Grand fir	1.39813***	0.053372
α_4 Caucasian fir	1.67377***	0.263022
α_4 Pacific silver fir	0.37007***	0.052858
α_4 Japanese red cedar	0.06063 (ns)	0.073803
α_4 Serbian spruce	0.70717***	0.067139
α_4 Sycamore	0.04754 (ns)	0.057101
α_4 Silver birch	1.11261***	0.098265
α_5 European Silver fir	55.44393***	5.15208
α_5 Grand fir	44.21824***	3.029842
α_5 Caucasian fir	53.68354***	5.608687
α_5 Pacific silver fir	54.05028***	3.014467
α_5 Japanese red cedar	50.90808***	3.412300
α_5 Serbian spruce	61.71730***	2.4692933
α_5 Sycamore	98.61877***	2.2123068
α_5 Silver birch	82.27468***	2.897067

p value: *** < 0.001, ** < 0.01, * < 0.05, ns not significant.

Table A3: Parameters obtained for the nonlinear mixed model for the radial variation in wood density at 12% moisture content (MC) (Equation 3).

Parameter	Value	Std. error
α_6 European Silver fir	390.0583***	3.1406141
α_6 Grand fir	384.0600***	8.176661
α_6 Caucasian fir	407.7008***	11.417553
α_6 Pacific silver fir	444.9011***	23.542257
α_6 Japanese red cedar	152.1363 (ns)	105.48647
α_6 Serbian spruce	535.6390***	34.67608
α_6 Sycamore	-544.2532***	123.82019
α_6 Silver birch	492.5208***	23.959732
α_7 European Silver fir	0.0059***	0.0005473
α_7 Grand fir	-0.2430***	0.030566
α_7 Caucasian fir	0.0042*	0.002076
α_7 Pacific silver fir	-0.3284***	0.038557
α_7 Japanese red cedar	-0.2143**	0.07068
α_7 Serbian spruce	-0.3247***	0.04630
α_7 Sycamore	-0.9380***	0.09131
α_7 Silver birch	-0.3023***	0.049348
α_8 Grand fir	526.2255***	24.392422
α_8 Japanese red cedar	329.5169***	13.48932
α_8 European Silver fir	0.0021 (ns)	0.2526487
α_8 Caucasian fir	-0.2746 (ns)	0.921836
α_8 Serbian spruce	502.2374***	17.08402
α_8 Silver birch	712.7298***	19.856647
α_8 Pacific silver fir	412.5628***	15.140305
α_8 Sycamore	561.1264***	8.58123
α_9 European Silver fir	-15.5160***	1.9062813
α_9 Grand fir	6.1798***	1.190510
α_9 Caucasian fir	-9.9567***	0.150758
α_9 Pacific silver fir	1.9777***	0.562516
α_9 Japanese red cedar	0.0362 (ns)	0.41392
α_9 Serbian spruce	1.9263**	0.66326
α_9 Sycamore	-0.2620***	0.04295
α_9 Silver birch	2.5987***	0.594057

p value: *** < 0.001, ** < 0.01, * < 0.05, ns not significant.