

Supplementary Materials

Figure S1. Variation of species production in relation to fir diameter (a) and in relation to beech age (b); variation of average MAI growth in relation to fir diameter (c) and beech age (d). Mixed stands located in high quality sites with a soil trophicity level (T (i.e., TI)) between 81–100 and 101–120 were considered. The variation curves indicate values of V and the increase of MAI per hectare under the assumption of 100% density.

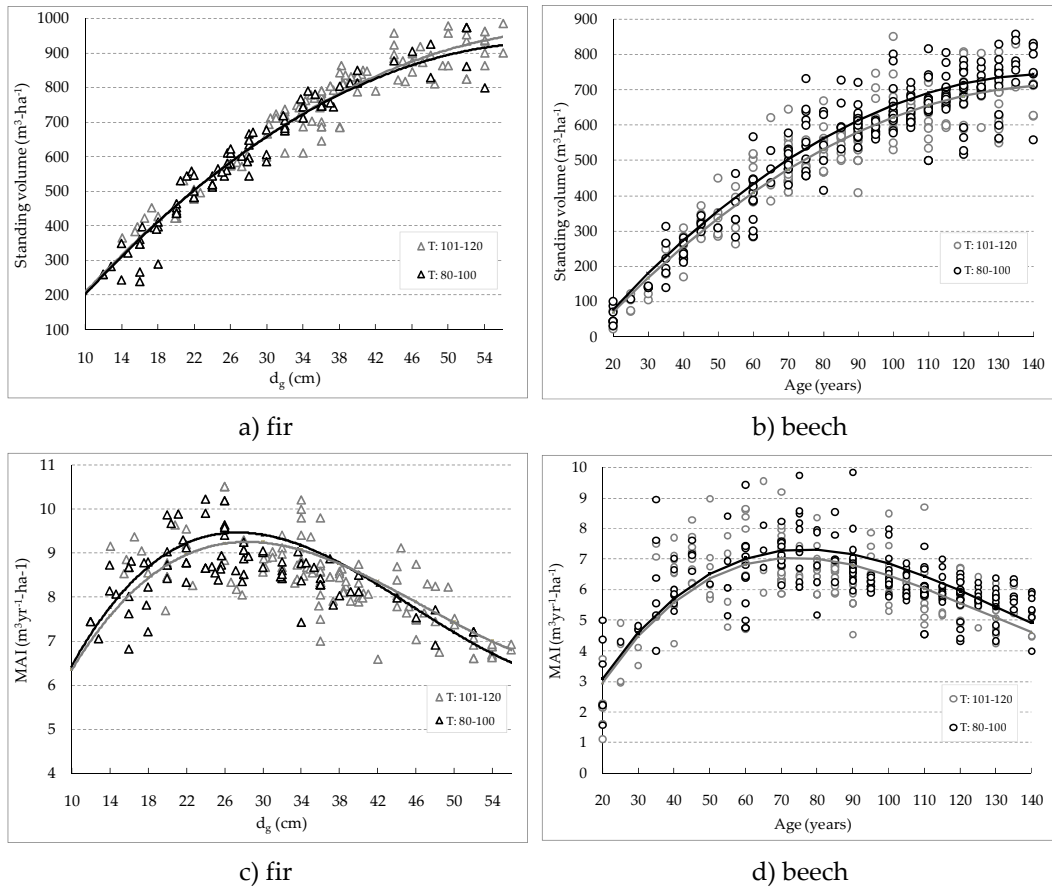


Figure S2 Variation of mean height (h_g) in relation to mixed stands age: fir (a) and beech (b); variation of dominant height (h_{dom}) in relation to diameter: fir (c) and beech (d). Values of the stand's height located on soils with a high trophicity level (81–100 and 101–120).

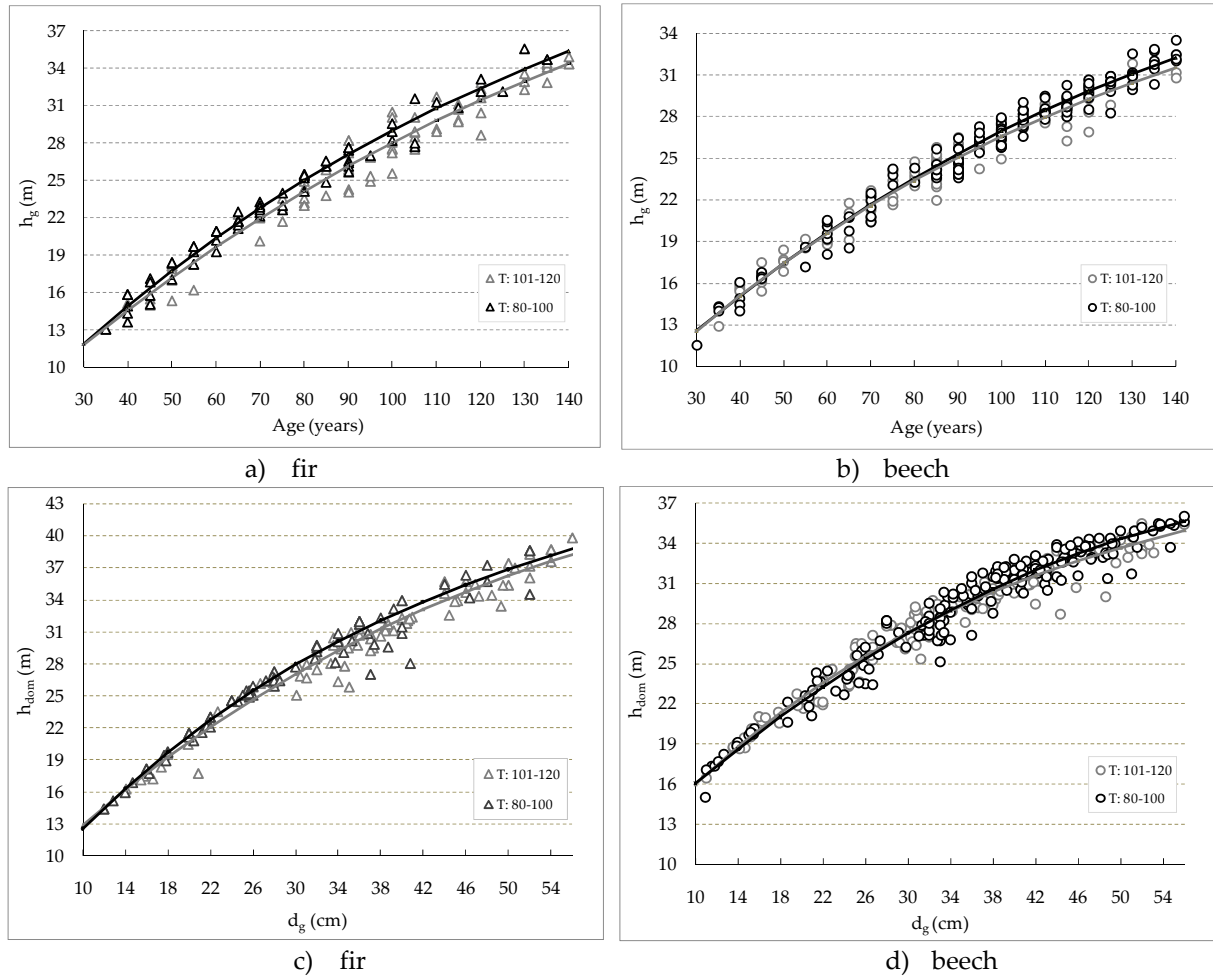


Table S1 Statistical parameters of the models used in the relationship between soil trophicity and stand productivity

Species	Variable		Equation						R ²	RMSE	MAE	MAPE	F _{exp}	F _{teo}
	y	x	Number	TI	a	b	c	d						
Fir	h _g (m)	Age (years)	(1)	80–100	1.397	0.388	13.19x10 ⁻¹	0.2x10 ⁻⁶	0.986	0.762	0.608	0.027	0.82	1.46
			(2)	101–120	2.539	0.335	8.8x10 ⁻⁴	0.8x10 ⁻⁷	0.962	1.152	0.931	0.038		
Beech			(3)	80–100	3.953	0.314	9.4x10 ⁻⁴	0.1x10 ⁻⁶	0.974	0.767	0.601	0.024	1.19	1.35
			(4)	101–120	3.578	0.334	12.4x10 ⁻⁴	0.2x10 ⁻⁶	0.961	0.860	0.702	0.029		
Fir	h _{dom} (m)	d(cm)	(5)	80–100	1.050	1.031	-0.016	8.6x10 ⁻⁵	0.974	1.173	0.708	0.025	1.10	1.45
			(6)	101–120	3.449	1.031	-0.009	0.3x10 ⁻⁵	0.977	1.172	0.908	0.032		
Beech			(7)	80–100	7.444	0.964	0.0118	0.6x10 ⁻⁵	0.959	0.931	0.733	0.026	1.13	1.36
			(8)	101–120	8.918	0.763	0.005	0.2x10 ⁻⁶	0.955	0.991	0.770	0.027		
Fir	V (m ³ ha ⁻¹)	d(cm)	(9)	80–100	-104.7	33.60	-0.272	-	0.964	40.51	29.92	0.059	0.71	1.44
			(10)	101–120	-89.37	32.34	-0.247	-	0.957	42.03	33.87	0.048		
Beech		Age (years)	(11)	80–100	-151.3	12.29	-0.0421	-	0.902	65.00	48.60	0.112	1.08	1.25
			(12)	101–120	-144.4	11.57	-0.0395	-	0.912	60.54	42.83	0.118		
Fir	MAI (m ³ yr ⁻¹ ha ⁻¹)	d(cm)	(13)	80–100	1.377	0.651	-0.0165	11.8x10 ⁻⁵	0.757	0.651	0.532	0.064	1.15	1.42
			(14)	101–120	0.925	0.728	-0.0190	13.9x10 ⁻⁵	0.851	0.661	0.563	0.069		
Beech		Age (years)	(15)	80–100	-1.138	0.256	23.6x10 ⁻⁴	0.6x10 ⁻⁶	0.752	0.923	0.754	0.143	1.05	1.25
			(16)	101–120	-1.425	0.268	-0.0026	7.1x10 ⁻⁶	0.752	0.871	0.638	0.107		