

Supplementary file S2

Coefficients of model parameters for *Fagus sylvatica* and *Picea abies* at site Kreisbach 1

Table A2. Coefficients of model parameters for *Fagus sylvatica* and *Picea abies* at site Kreisbach 1

Variable	Asymptote	Inflection	Scale Par.
	<i>a</i>	Pt. <i>b</i>	<i>c</i>
0	0.30	67.50	16.68
Fs_Mi	-0.09	-12.00	-6.05
Pa_Mi ¹⁾	-0.22	-30.40	-7.45
Pa_Mo	-0.12	-7.36	1.24
P10	-0.15	6.05	-0.25
P10_Fs_Mi	0.44	-0.93	6.81
P10_Pa_Mi	0.43	9.41	7.81
P10_Pa_Mo	0.20	-4.28	2.33
P90	0.12	-0.95	-1.40
P90_Fs_Mi	-0.21	-2.57	-3.46
P90_Pa_Mi	⁻¹⁾	⁻¹⁾	⁻¹⁾
P90_Pa_Mo	0.00	7.03	-1.15
y13	-0.02	12.05	-0.55
y13_Fs_Mi	0.28	18.92	8.25
y13_Pa_Mi	0.01	38.62	8.38
y13_Pa_Mo	0.15	16.20	5.93
y13_P10	-0.27	-5.27	-3.38
y13_P90	0.05	7.84	5.68
y14	0.05	11.14	6.43
y14_Fs_Mi	0.32	18.30	6.93
y14_Pa_Mi	0.18	20.19	9.57
y14_Pa_Mo	0.25	-1.85	2.55
y14_P10	-0.33	-0.10	-6.03
y14_P90	0.10	4.73	3.33
y15	-0.08	-13.98	-3.88
y15_Fs_Mi	0.21	12.08	5.20
y15_Pa_Mi	-0.01	23.65	-1.76
y15_Pa_Mo	0.08	7.04	-2.03
y15_P10	-0.18	3.12	-1.60
y15_P90	0.00	2.72	1.90
y16	0.03	22.08	-1.47
y16_Fs_Mi	0.25	15.41	9.09
y16_Pa_Mi	0.07	14.02	10.33

y16_Pa_Mo	0.12	-3.20	6.00
y16_P10	-0.19	-7.01	-5.26
y16_P90	-0.02	8.59	3.42
y17	-0.11	2.11	0.76
y17_Fs_Mi	0.21	5.86	3.71
y17_Pa_Mi	0.19	31.41	21.64
y17_Pa_Mo	0.17	9.54	12.87
y17_P10	-0.09	16.57	-3.19
y17_P90	0.06	8.74	2.53
y18	0.01	-3.01	1.83
y18_Fs_Mi	0.14	2.21	2.26
y18_Pa_Mi	-0.15	6.16	-8.75
y18_Pa_Mo	-0.08	10.40	-0.56
y18_P10	0.00	-1.16	-3.22
y18_P90	-0.01	2.35	0.82

Note: Dummy-categorical fixed effects with regard to different tree species are abbreviated as **0** (50th percentile of *Fagus sylvatica* in monospecific stands in year 2019), **Fs_Mi** (50th percentile of *Fagus sylvatica* in mixed stands with *Picea abies* in year 2019), **Pa_Mo** (50th percentile of *Picea abies* in monospecific stands in year 2019) and **Pa_Mi** (90th percentile of *Picea abies* in mixed stands with *Fagus sylvatica* in year 2019). Categories of varying social status are named as **P10** (10th percentile of diameter distribution), **P90** (90th percentile of diameter distribution). The parameters **y13 to y18** describe the aberration for each year from the reference year 2019. Significant parameter estimates according to Wald tests using $\alpha = 5\%$ level are indicated by italic typeface.

¹⁾ All *Picea abies* trees representing the 50th percentile in mixed stands with *Fagus sylvatica* showed no growth pattern. Therefore, the 50th percentile was not considered in the evaluation of *Picea abies* in mixed stands. In contrast to all other models the variable Pa_Mi describes the 90th percentile instead of the 50th percentile.