

Supplementary file S2

Table S2. Parameter estimates of models for green density (kg m^{-3}) of the pulpwood assortments (MODELS 2). The standard error of the estimates is presented in parentheses. The variance of random week effects and correlations of the successive weeks were estimated by the regions (*A–E*).

	Pine	Spruce	Birch
Variable	Estimate	Estimate	Estimate
Intercept	907.46 (2.277)	863.35 (3.175)	930.57 (3.979)
<i>WEEK</i>			-3.987 (0.643)
<i>WEEK</i> _{>22}	5.147 (0.754)		
<i>WEEK</i> ²	-0.0563 (0.009)		0.355 (0.045)
<i>WEEK</i> ² _{>15}		0.537 (0.081)	
<i>WEEK</i> ² _{>22}			1.123 (0.115)
<i>WEEK</i> ³		-0.0052 (0.001)	-0.0127 (0.001)
<i>STORAGE</i>	-0.194 (0.042)	-0.299 (0.065)	-0.708 (0.038)
<i>STORAGE</i> _{>300 days}	0.283 (0.020)	0.241 (0.106)	0.291 (0.021)
<i>STORAGE</i> _{Nov–March}	0.231 (0.047)	0.245 (0.106)	0.663 (0.041)
<i>STORAGE</i> _{May}	-0.353 (0.084)		0.420 (0.079)
<i>STORAGE</i> _{June}	-0.747 (0.088)	-1.184 (0.132)	0.459 (0.096)
<i>STORAGE</i> _{July}			-0.437 (0.102)
<i>TS</i>	-0.158 (0.008)	-0.134 (0.014)	-0.038 (0.007)
<i>TEMP</i>		-0.531 (0.160)	
<i>TEMP</i> _{3month}	-0.958 (0.112)		-0.433 (0.121)
<i>TEMP</i> _{max20}	0.568 (0.102)	0.280 (0.199)	0.386 (0.083)
$\ln(\text{TEMP}_{\text{max20}} + 1)$			-4.480 (0.883)
<i>RAINFALL</i>		0.282 (0.022)	0.142 (0.011)
<i>RAINFALL</i> _{3month}			-0.078 (0.010)
<i>RAINFALL</i> _{water}	0.248 (0.012)		
<i>AREA</i> _E * <i>MONTH</i> _{Feb–May}	13.915 (4.070)		
<i>AREA</i> _B * <i>TS</i>	0.017 (0.003)		
<i>AREA</i> _C * <i>TS</i>	0.030 (0.008)		
<i>AREA</i> _E * <i>TS</i>	-0.021 (0.004)		

	Pine	Spruce	Birch
Variable	Estimate	Estimate	Estimate
<i>Random effects</i>			
$AREA_A * var(w_{ij})$	259.59	443.84	119.99
$AREA_A * corr(w_{ij})$	0.8361	0.9338	0.8615
$AREA_B * var(w_{ij})$	179.34	189.58	205.81
$AREA_B * corr(w_{ij})$	0.8464	0.8286	0.8981
$AREA_C * var(w_{ij})$	93.1985	521.43	173.51
$AREA_C * corr(w_{ij})$	0.7407	0.8672	0.9070
$AREA_D * var(w_{ij})$	148.91	203.28	172.76
$AREA_D * corr(w_{ij})$	0.8516	0.9532	0.8396
$AREA_E * var(w_{ij})$	315.07	-	509.67
$AREA_E * corr(w_{ij})$	0.5324	-	0.8158
$var(e_{ijk})$			
$MONTH_{Jan-May} * STORAGE_{<1month}$	1,721.44	1,644.99	996.42
$MONTH_{Jan-May} * STORAGE_{>1month}$	2,451.32	2,486.51	1,512.61
$MONTH_{June-Dec} * STORAGE_{<1month}$	2,122.52	2,254.24	1,523.22
$MONTH_{June-Dec} * STORAGE_{>1month}$	3,298.29	3,003.53	1,869.23

WEEK, delivery date of pulpwood at the mill expressed as week number (1–52); *WEEK*_{>15}, dummy variable for wood delivered after week number 15 expressed as *WEEK*-15 (week); *WEEK*_{>22}, dummy variable for wood delivered after week number 22 expressed as *WEEK*-22 (week); *STORAGE*, storage time of pulpwood (day); *STORAGE*_{>300}, dummy variable for storage time of pulpwood exceeded >300 days (day); *STORAGE*_{Nov-March}, dummy variable for storage time of pulpwood between November and March (day); *STORAGE*_{May}, dummy variable for storage time of pulpwood in May (day); *STORAGE*_{June}, dummy variable for storage time of pulpwood in June (day); *STORAGE*_{July}, dummy variable for storage time of pulpwood in July (day); *TS*, temperature sum with a +5 °C threshold (dd); *TEMP*, average temperature of the storage time (°C); *TEMP*_{3month}, average temperature of the last three months or whole storage time when storage time <3 months (°C); *TEMP*_{max20}, the number of storage days when maximum temperature of the day is >20 °C; *RAINFALL*, precipitation during the storage time (mm); *RAINFALL*_{3month}, precipitation of the last three months or whole storage time when storage time <3 months (mm); *RAINFALL*_{water}, precipitation during the storage time when average temperature of the days is >0 °C (mm); *MONTH*_{Feb-May}, dummy variable for delivery time between February and May (0.1); *AREA*_A, dummy variable for sub-area A, *AREA*_B, dummy variable for sub-area B; *AREA*_C, dummy variable for sub-area C; *AREA*_D, dummy variable for sub-area D; *AREA*_E, dummy variable for sub-area E; $var(w_{ij})$, variance of random week effect; $corr(w_{ij})$, autocorrelation of the successive weeks, $var(e_{ijk})$ error variance of pulpwood group *k*; *MONTH*_{Jan-May}, *MONTH*_{June-Dec}, error variance of group *k* when delivery date is January–May or June–December, *STORAGE*_{<1month} and *STORAGE*_{>1month}, error variance of group *k* when storage time is less than or more than 1 month.