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## **Predicting Diameter at Breast Height from Stump Measurements of Removed Trees to Estimate Cuttings, Illegal Loggings and Natural Disturbances**

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SUPPLEMENTARY MATERIALS

**Supplementary File 1.** Estimated parameters for Model 2.

<b>Coefficients</b>	<b>Estimate</b>	<b>Std. Error<sup>(1)</sup></b>	<b>t value</b>	<b>Pr(&gt; t )</b>	<b>Signif. codes</b>
(Intercept)	-2.16952E+00	1.71786E+00	-1.26292	0.20688	
SD	9.34004E-01	1.21995E-01	7.65607	0.00000	**
SD <sup>2</sup>	-2.57564E-03	1.49861E-03	-1.71868	0.08595	.
SH	8.76087E-02	3.79610E-02	2.30786	0.02119	*
<i>Cupressus</i> spp	9.04360E-01	2.13463E+00	0.42366	0.67189	
<i>Larix decidua</i>	1.49646E+00	2.41664E+00	0.61923	0.53589	
<i>Picea abies</i>	1.45761E+00	2.09005E+00	0.69740	0.48570	
<i>Pinus cembra</i>	-3.31127E-01	2.30952E+00	-0.14337	0.88602	
<i>Pinus halepensis</i>	2.73015E+00	2.38018E+00	1.14704	0.25161	
<i>Pinus nigra</i>	-3.23973E+00	2.05192E+00	-1.57888	0.11465	
<i>Pinus pinea</i>	-8.53734E-01	3.22746E+00	-0.26452	0.79143	
<i>Pinus silvestris</i>	4.41974E+00	2.34367E+00	1.88582	0.05958	.
<i>Castanea sativa</i>	-9.69774E-01	2.11327E+00	-0.45890	0.64640	
<i>Fagus silvatica</i>	-3.35886E+00	2.45899E+00	-1.36595	0.17223	
<i>Ostria carpinifolia</i>	2.84942E+00	2.25973E+00	1.26096	0.20759	
<i>Quercus cerris</i>	-1.93987E+00	3.01967E+00	-0.64241	0.52074	
<i>Quercus ilex</i>	-3.07939E-01	1.99345E+00	-0.15447	0.87726	
<i>Quercus pubescens</i>	3.49560E+00	2.30176E+00	1.51867	0.12913	
<i>Robinia pseudoacacia</i>	1.24495E+00	2.37414E+00	0.52438	0.60012	
SD x <i>Cupressus</i> spp	-1.86125E-01	1.76448E-01	-1.05484	0.29172	
SD x <i>Larix decidua</i>	-3.87156E-01	1.42858E-01	-2.71009	0.00683	**
SD x <i>Picea abies</i>	-1.23360E-01	1.42264E-01	-0.86712	0.38606	
SD x <i>Pinus cembra</i>	-3.70020E-02	1.64927E-01	-0.22435	0.82252	
SD x <i>Pinus halepensis</i>	-3.18991E-01	1.85306E-01	-1.72142	0.08545	.
SD x <i>Pinus nigra</i>	3.69471E-02	1.35803E-01	0.27206	0.78562	
SD x <i>Pinus pinea</i>	-2.29568E-01	1.85951E-01	-1.23457	0.21725	
SD x <i>Pinus silvestris</i>	-3.84474E-01	1.74953E-01	-2.19759	0.02818	*
SD x <i>Castanea sativa</i>	-1.83826E-01	1.37874E-01	-1.33329	0.18271	
SD x <i>Fagus silvatica</i>	-6.76261E-02	1.57068E-01	-0.43055	0.66688	
SD x <i>Ostria carpinifolia</i>	-2.71181E-01	1.67211E-01	-1.62179	0.10513	
SD x <i>Quercus cerris</i>	-1.11569E-01	1.85311E-01	-0.60206	0.54725	
SD x <i>Quercus ilex</i>	-8.74639E-02	1.41626E-01	-0.61757	0.53698	
SD x <i>Quercus pubescens</i>	-3.08304E-01	1.56292E-01	-1.97262	0.04878	*
SD x <i>Robinia pseudoacacia</i>	-8.31445E-02	1.65884E-01	-0.50122	0.61631	
SD <sup>2</sup> x <i>Cupressus</i> spp	4.04261E-03	2.68048E-03	1.50817	0.13179	
SD <sup>2</sup> x <i>Larix decidua</i>	6.08285E-03	1.72275E-03	3.53088	0.00043	***
SD <sup>2</sup> x <i>Picea abies</i>	2.46404E-03	1.78936E-03	1.37705	0.16877	
SD <sup>2</sup> x <i>Pinus cembra</i>	6.89968E-04	2.06235E-03	0.33455	0.73802	
SD <sup>2</sup> x <i>Pinus halepensis</i>	6.68895E-03	2.88436E-03	2.31904	0.02057	*
SD <sup>2</sup> x <i>Pinus nigra</i>	1.38746E-03	1.68817E-03	0.82187	0.41132	
SD <sup>2</sup> x <i>Pinus pinea</i>	4.66185E-03	2.17011E-03	2.14821	0.03191	*
SD <sup>2</sup> x <i>Pinus silvestris</i>	7.39075E-03	2.52073E-03	2.93199	0.00344	**
SD <sup>2</sup> x <i>Castanea sativa</i>	5.86193E-04	1.66243E-03	0.35261	0.72445	
SD <sup>2</sup> x <i>Fagus silvatica</i>	-3.04629E-04	1.83677E-03	-0.16585	0.86830	
SD <sup>2</sup> x <i>Ostria carpinifolia</i>	1.55839E-03	2.45688E-03	0.63430	0.52602	
SD <sup>2</sup> x <i>Quercus cerris</i>	-8.40146E-05	2.31448E-03	-0.03630	0.97105	
SD <sup>2</sup> x <i>Quercus ilex</i>	-8.08676E-04	1.79370E-03	-0.45084	0.65219	
SD <sup>2</sup> x <i>Quercus pubescens</i>	2.45394E-03	2.01274E-03	1.21920	0.22302	
SD <sup>2</sup> x <i>Robinia pseudoacacia</i>	1.80326E-05	2.25489E-03	0.00800	0.99362	
SH x <i>Cupressus</i> spp	2.04292E-02	6.43194E-02	0.31762	0.75083	
SH x <i>Larix decidua</i>	8.29554E-02	9.89334E-02	0.83850	0.40193	

Coefficients	Estimate	Std. Error <sup>(1)</sup>	t value	Pr(>  t )	Signif. codes
SH x <i>Picea abies</i>	-1.03481E-01	4.91392E-02	-2.10587	0.03544	*
SH x <i>Pinus cembra</i>	-9.33510E-03	4.25266E-02	-0.21951	0.82629	
SH x <i>Pinus halepensis</i>	-2.83615E-02	1.17091E-01	-0.24222	0.80866	
SH x <i>Pinus nigra</i>	1.37655E-01	6.71978E-02	2.04851	0.04074	**
SH x <i>Pinus pinea</i>	1.72926E-01	8.15205E-02	2.12125	0.03412	**
SH x <i>Pinus silvestris</i>	-4.36696E-02	6.24392E-02	-0.69939	0.48445	
SH x <i>Castanea sativa</i>	1.65698E-01	5.42623E-02	3.05365	0.00231	**
SH x <i>Fagus silvatica</i>	9.45044E-02	7.11630E-02	1.32800	0.18445	
SH x <i>Ostria carpinifolia</i>	-9.17768E-02	4.33240E-02	-2.11838	0.03436	*
SH x <i>Quercus cerris</i>	1.75756E-01	6.49336E-02	2.70670	0.00690	**
SH x <i>Quercus ilex</i>	1.80749E-01	1.20768E-01	1.49667	0.13476	
SH x <i>Quercus pubescens</i>	-5.58347E-02	8.63898E-02	-0.64631	0.51821	
SH x <i>Robinia pseudoacacia</i>	-6.14859E-02	1.14920E-01	-0.53503	0.59273	

Reference species is *Abies alba*

<sup>(1)</sup> heteroscedastic-robust standard errors

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 3.306 on 1123 degrees of freedom

Multiple R-squared: 0.9452, Adjusted R-squared: 0.9422

F-statistic: 307.6 on 63 and 1123 DF, *p*-value: < 2.2e-16