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Supplementary file S1

Bayesian binary logistic generalized linear mixed-effect model estimates of tree- and stand-scale variables on the probability of wind damage for birch using slenderness ratio as a ratio of quadratic-height and diameter at breast height (H^2D^{-1}). For the variables with several levels, the estimate is the difference from the reference level. Data obtained from National Forest Inventory in Latvia.

Variable	H^2D^{-1}			
	Estimate	Est.error	CI	
			Min	Max
Intercept	-5.12	0.35	-5.88	-4.59
Stand age (years)*	0.37	0.07	0.23	0.51
Dominant tree species (reference level: birch)*:				
Pine	-0.45	0.18	-0.80	-0.11
Spruce	0.07	0.16	-0.24	0.39
Black alder	0.22	0.24	-0.25	0.69
Aspen	0.23	0.22	-0.21	0.64
Grey alder	-0.22	0.45	-1.12	0.59
Oak	0.02	0.76	-1.59	1.43
Ash	-0.08	0.72	-1.56	1.25
Goat willow	-0.62	1.35	-3.73	1.54
Stand density (trees ha ⁻¹)*	-0.66	0.11	-0.88	-0.46
Overstorey basal area (m ² ha ⁻¹)*	0.24	0.07	0.11	0.37
Management (reference level: not thinned in the last 5 years):				
Thinned in the last 5 years	0.19	0.17	-0.15	0.52
Site type (reference level: dry mineral soil)*:				
Wet mineral soil	0.02	0.21	-0.38	0.48
Peat soil	0.73	0.20	0.33	1.14
Drained wet mineral soil	0.35	0.15	0.07	0.64
Drained peat soil	0.95	0.16	0.65	1.27
Slenderness ratio	0.09	0.05	-0.01	0.19
Prior damage (reference level: not damaged)*:				
Damaged	1.46	0.17	1.18	1.84

Est.error—standard deviation of posterior distribution; CI—95% credible interval; * significant effect according to 95% credible interval; Birch—*Betula pendula* Roth. and *B. pubescens* Ehrh.; Pine—*Pinus sylvestris* L.; Spruce—*Picea abies* (L.) Karst.; Black alder—*Alnus glutinosa* (L.) Gaertn.; Aspen—*Populus tremula* L.; Grey alder—*Alnus incana* (L.) Moench; Oak—*Quercus robur* L.; Ash—*Fraxinus excelsior* L.; Goat willow—*Salix caprea* L.