

**Table S1.** Description of the tested trees.  $BBM_{Pf}$  – basal bending moment at the primary failure;  $BBM_{Max}$  – maximum basal bending moment.

Tree No.	Group	DBH, cm	Height, m	Stem volume, m <sup>3</sup>	Crown length, m	Relative circumference of stem with stripped bark, %	Area of bark stripping, cm <sup>2</sup>	$BBM_{Pf}$ , kNm	$BBM_{Max}$ , kNm	Failure	Pulling direction, degrees
1	Control	16.4	17.2	0.2	4.5	0.0	0.0	13.7	17.7	Uprooting	275
2	Control	16.5	17.5	0.2	6.7	0.0	0.0	14.8	15.7	Uprooting	300
3	Control	23.0	22.8	0.5	9.8	0.0	0.0	48.8	85.2	Fracture	310
4	Control	27.0	25.9	0.7	10.9	0.0	0.0	46.9	62.1	Uprooting	335
5	Control	27.0	26.2	0.7	10.3	0.0	0.0	44.9	61.4	Uprooting	150
6	Control	27.7	25.8	0.8	17.6	0.0	0.0	54.5	73.8	Uprooting	320
7	Control	30.0	27.0	0.9	11.0	0.0	0.0	58.3	87.1	Uprooting	120
8	Control	31.0	25.7	0.9	10.0	0.0	0.0	64.2	84.6	Uprooting	126
9	Control	33.0	24.1	0.9	12.0	0.0	0.0	50.3	71.6	Uprooting	331
10	Control	34.0	28.4	1.2	14.4	0.0	0.0	76.4	101.2	Uprooting	315
11	Control	35.7	28.6	1.3	13.2	0.0	0.0	93.8	117.5	Uprooting	35
12	Damaged	16.0	15.1	0.2	8.4	40.8	889.0	2.9	6.5	Uprooting	2
13	Damaged	18.0	20.6	0.3	9.9	33.3	603.0	5.6	11.2	Uprooting	280
14	Damaged	25.4	22.2	0.5	9.1	16.0	2375.0	6.8	16.2	Fracture	348
15	Damaged	26.0	25.1	0.7	13.9	36.8	2160.0	14.5	38.1	Uprooting	30
16	Damaged	27.6	22.4	0.6	6.9	21.3	1703.0	10.4	22.9	Uprooting	325
17	Damaged	28.5	25.3	0.8	14.0	21.7	811.0	18.9	41.0	Uprooting	30
18	Damaged	32.0	26.5	1.0	15.2	32.7	1513.0	31.5	57.8	Uprooting	2
19	Damaged	33.5	27.6	1.1	12.7	22.9	1811.0	19.8	88.0	Uprooting	335