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Supplementary file S1

Motti simulation background data for Southern Finland.

Table S1. Motti simulation background data for Southern Finland. The fertility classes according to Table 2 are: 2 is fertile, 3 is medium-fertile, 4 is medium-poor and 5 is poor. Main tree species are: 1 is Scots pine (*Pinus sylvestris* L.) and 2 is Norway spruce (*Picea abies* (L.) Karst.). Abbreviations for the forest attributes are: stem number (N_s), basal area (BA), basal area-weighted mean height (Hg), basal area-weighted mean diameter (Dg) and dominant height (Hdom).

Fertility class	Main species	Year	Age	N _s (ha ⁻¹)	BA (m ² ha ⁻¹)	Hg (m)	Dg (cm)	Hdom (m)	Stem volume (m ³ ha ⁻¹)	Sawlog volume (m ³ ha ⁻¹)	Pulpwood volume (m ³ ha ⁻¹)	Residue wood volume (m ³ ha ⁻¹)	Total yield (m ³ ha ⁻¹)	Stand mortality (m ³ ha ⁻¹)	Stem wood (kg ha ⁻¹)	Residue wood (kg ha ⁻¹)	Living branches (kg ha ⁻¹)	Dead branches (kg ha ⁻¹)	Leaves (kg ha ⁻¹)	Stumps (kg ha ⁻¹)	Coarse roots > 2 mm (kg ha ⁻¹)	Fine roots (kg ha ⁻¹)
2	2	0	60	1073	22.5	16.0	20.1	16.0	175	90.4	78.0	6.5	175.0	0	64.3	2.6	18.0	3.0	12.8	5.7	22.6	1.2
2	2	5	65	1050	26.7	17.9	21.7	17.9	233	128.6	97.9	6.9	233.4	0	86.3	2.8	21.5	3.8	14.9	7.1	27.7	1.5
2	2	10	70	1023	30.9	19.6	23.2	19.6	294	200.7	86.5	7.1	294.4	0	109.2	2.9	24.9	4.6	16.8	8.6	32.9	1.8
2	2	15	75	991	34.8	21.0	24.7	21.0	355	265.1	84.6	5.6	355.3	0	132.6	2.2	28.2	5.3	18.4	10.2	38.0	2.2
2	2	20	80	955	38.2	22.3	26.1	22.3	411	318.7	87.6	5.1	411.4	0	153.8	2.0	31.0	6.0	19.6	11.6	42.6	2.5
2	2	25	85	916	41.2	23.4	27.4	23.4	464	365.2	94.5	4.7	464.3	0	173.6	1.9	33.5	6.6	20.6	12.9	46.9	2.8
2	2	30	90	876	43.9	24.4	28.7	24.4	513	438.4	70.6	4.4	513.4	0	191.9	1.7	35.8	7.1	21.4	14.2	50.8	3.1
2	2	35	95	836	46.3	25.4	29.9	25.4	558	485.2	69.0	4.0	558.2	0	208.5	1.6	37.7	7.6	21.9	15.3	54.5	3.4
2	2	40	100	797	48.4	26.2	31.1	26.2	599	527.7	67.4	3.7	598.7	0	223.4	1.4	39.4	8.0	22.3	16.4	57.7	3.7
2	2	45	105	759	50.2	27.0	32.2	27.0	635	569.2	62.4	3.4	635.1	0	236.7	1.3	40.9	8.3	22.5	17.4	60.6	3.9
2	2	50	110	723	51.7	27.8	33.3	27.8	668	605.9	58.4	3.2	667.5	0	248.5	1.2	42.1	8.6	22.7	18.3	63.2	4.1
3	2	0	60	851	20.2	17.1	21.0	17.1	168	90.6	71.4	5.6	167.5	0	60.7	2.2	16.1	2.8	11.2	5.3	20.7	0.9
3	2	5	65	841	23.1	18.6	22.3	18.6	209	121.9	80.8	6.1	208.8	0	76.1	2.4	18.4	3.3	12.6	6.3	24.2	1.1
3	2	10	70	830	25.9	19.9	23.5	19.9	251	167.0	79.2	4.9	251.1	0	92.6	1.9	20.7	3.9	13.9	7.3	27.7	1.4
3	2	15	75	817	28.6	21.1	24.7	21.1	293	212.0	76.8	4.6	293.4	0	108.7	1.8	22.9	4.4	15.0	8.3	31.2	1.6
3	2	20	80	803	31.0	22.1	25.7	22.1	333	247.9	80.7	4.4	333.0	0	123.8	1.7	24.8	4.9	15.9	9.3	34.4	1.9
3	2	25	85	787	33.2	23.1	26.7	23.1	371	296.3	70.7	4.2	371.2	0	138.3	1.6	26.6	5.3	16.7	10.2	37.4	2.1
3	2	30	90	771	35.3	23.9	27.6	23.9	408	329.6	74.1	4.0	407.7	0	152.2	1.6	28.3	5.8	17.4	11.1	40.2	2.3
3	2	35	95	753	37.2	24.7	28.5	24.7	442	368.5	70.0	3.8	442.3	0	165.3	1.5	29.8	6.1	18.0	11.9	42.9	2.6
3	2	40	100	735	38.9	25.5	29.4	25.5	475	405.3	65.9	3.6	474.8	0	177.6	1.4	31.1	6.5	18.4	12.8	45.5	2.8
3	2	45	105	717	40.5	26.2	30.2	26.2	505	435.6	66.1	3.5	505.2	0	189.1	1.4	32.4	6.8	18.8	13.5	47.8	3.0
3	2	50	110	698	42.0	26.8	31.0	26.8	533	473.6	56.5	3.3	533.4	0	199.8	1.3	33.5	7.1	19.1	14.2	50.0	3.3
3	1	0	60	932	19.8	17.9	21.5	17.9	171	71.5	95.9	4.0	171.4	0	65.8	1.7	11.5	3.3	4.3	4.8	14.5	0.4
3	1	5	65	916	22.6	19.1	22.8	19.1	206	98.5	103.0	4.0	205.5	0	79.6	1.7	12.7	3.8	4.6	5.6	17.3	0.4
3	1	10	70	899	25.3	20.2	24.0	20.2	240	123.6	112.1	4.1	239.8	0	93.4	1.7	13.7	4.3	4.8	6.4	20.1	0.5
3	1	15	75	881	27.5	21.2	25.1	21.2	271	155.1	111.6	4.2	270.8	0	106.1	1.7	14.4	4.7	5.0	7.1	22.6	0.6
3	1	20	80	820	28.3	22.1	26.2	22.1	287	172.0	110.6	4.0	286.6	0	112.7	1.7	14.7	4.9	5.0	7.4	23.9	0.6
3	1	25	85	759	28.6	23.0	27.2	23.0	298	185.8	108.3	3.9	298.0	0	117.6	1.6	14.9	5.0	4.9	7.6	24.8	0.6
3	1	30	90	705	29.0	23.8	28.2	23.8	309	197.1	107.7	3.8	308.6	0	122.2	1.6	15.0	5.1	4.9	7.7	25.6	0.7
3	1	35	95	658	29.3	24.6	29.2	24.6	318	218.9	96.7	2.6	318.2	0	126.8	1.1	15.1	5.2	4.8	7.9	26.5	0.7
3	1	40	100	616	29.6	25.3	30.2	25.3	327	228.0	96.7	2.3	327.0	0	130.7	1.0	15.2	5.2	4.8	8.0	27.2	0.8
3	1	45	105	578	29.9	25.9	31.2	25.9	335	240.6	92.6	2.1	335.2	0	134.3	0.9	15.3	5.3	4.7	8.1	27.9	0.8
3	1	50	110	544	30.2	26.6	32.1	26.6	343	250.9	90.0	1.9	342.8	0	137.7	0.8	15.3	5.4	4.6	8.2	28.6	0.8
4	1	0	60	915	16.8	16.6	19.8	16.6	137	53.9	79.1	4.0	137.0	0	53.0	1.6	10.3	2.7	4.0	4.0	11.6	0.4
4	1	5	65	901	19.4	17.8	21.1	17.8	167	67.2	95.8	3.9	166.9	0	65.1	1.6	11.6	3.2	4.4	4.7	14.0	0.4
4	1	10	70	887	21.9	18.8	22.3	18.8	197	99.2	94.2	4.0	197.4	0	77.5	1.6	12.7	3.7	4.7	5.4	16.6	0.5
4	1	15	75	871	24.1	19.8	23.3	19.8	226	121.1	100.4	4.0	225.6	0	88.9	1.7	13.6	4.1	4.9	6.1	18.8	0.6
4	1	20	80	854	26.1	20.8	24.4	20.8	253	142.0	107.0	4.1	253.1	0	100.2	1.7	14.3	4.5	5.1	6.7	21.1	0.6
4	1	25	85	837	28.0	21.6	25.3	21.6	280	165.5	110.0	4.2	279.7	0	111.1	1.7	15.0	4.8	5.2	7.3	23.2	0.7
4	1	30	90	807	29.4	22.4	26.3	22.4	301	192.8	103.6	4.2	300.6	0	119.7	1.7	15.4	5.1	5.2	7.7	25.0	0.8
4	1	35	95	750	29.6	23.2	27.2	23.2	309	204.2	100.8	4.0	309.0	0	123.4	1.7	15.5	5.2	5.1	7.8	25.7	0.8
4	1	40	100	703	29.8	23.9	28.2	23.9	318	212.9	102.0	2.8	317.8	0	127.7	1.2	15.6	5.2	5.1	8.0	26.4	0.8
4	1	45	105	660	30.0	24.5	29.1	24.5	326	224.9	98.3	2.5	325.7	0	131.2	1.1	15.7	5.3	5.0	8.1	27.1	0.9
4	1	50	110	621	30.2	25.1	29.9	25.1	333	223.3	107.4	2.3	333.0	0	134.4	1.0	15.7	5.4	5.0	8.2	27.7	0.9
5	1	0	60	1156	15.1	12.3	14.9	12.3	96	10.1	80.4	5.1	95.6	0	36.7	2.1	8.1	2.2	3.6	3.1	8.2	0.3
5	1	5	65	1135	16.5	13.5	15.6	13.5	113	14.1	93.7	5.3	113.1	0	43.9	2.2	8.7	2.5	3.8	3.5	9.3	0.4
5	1	10	70	1113	17.7	14.5	16.3	14.5	130	18.3	105.9	5.5	129.7	0	50.7	2.3	9.3	2.7	4.1	3.8	10.4	0.4
5	1	15	75	1092	18.7	15.5	16.9	15.5	144	33.4	105.6	5.5	144.5	0	56.9	2.3	9.8	2.9	4.2	4.1	11.3	0.5
5	1	20	80	1070	19.5	16.3	17.4	16.3	158	40.9	111.5	5.5	158.0	0	62.5	2.3	10.1	3.1	4.4	4.4	12.1	0.6
5	1	25	85	1048	20.2	17.1	17.9	17.1	170	48.8	115.8	5.5	170.0	0	67.6	2.3	10.5	3.2	4.5	4.6	12.9	0.6
5	1	30	90	1026	20.7	17.8	18.3	17.8	181	54.9	120.4	5.5	180.8	0	72.2	2.3	10.8	3.3	4.6	4.8	13.5	0.7
5	1	35	95	1005	21.2	18.4	18.7	18.4	190	65.3	119.6	5.4	190.3	0	76.3	2.3	11.0	3.4	4.7	5.0	14.1	0.7
5	1	40	100	984	21.6	19.0	19.1	19.0	199	75.0	118.4	5.3	198.7	0	79.9	2.2	11.2	3.5	4.8	5.1	14.6	0.8
5	1	45	105	963	22.0	19.6	19.4	19.6	206	80.3	120.5	5.2	206.1	0	83.1	2.2	11.4	3.6	4.8	5.2	15.1	0.8
5	1	50	110	943	22.2	20.0	19.8	20.0	213	82.2	125.2	5.1	212.6	0	85.9	2.2	11.5	3.6	4.9	5.3	15.5	0.9