Saari A., Palviainen M., Niemi M.T., Laurén A. (2025). Impacts of reduced ditch network maintenance and ditch shallowing on ecosystem services of peatland forests in Finland. Silva Fennica vol. 59 no. 3 article id 25032. https://doi.org/10.14214/sf.25032

## Supplementary file S3

## Motti simulation background data for Northern Ostrobothnia-Kainuu.

**Table S3.** Motti simulation background data for Northern Ostrobothnia–Kainuu. 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-weighted mean height (Hg), basal area-weighted mean diameter (Dg) and dominant height (Hdom).

												Residue									Coarse	
									Stem	Sawlog	Pulpwood	wood	Total	Stand	Stem	Residue	Living	Dead			roots > 2	Fine
rtility	Main			Ns	BA	Hg	Dg	Hdom	volume	volume	volume	volume	yield	mortality	wood	wood	branches	branches	Leaves	Stumps	mm	roots
ass	species	Year	Age	(ha <sup>-1</sup> )	(m² ha <sup>-1</sup> )	(m)	(cm)	(m)	(m³ ha <sup>-1</sup> )	(m³ ha <sup>-1</sup> )	(m³ ha <sup>-1</sup> )	(m³ ha-1)	(m³ ha <sup>-1</sup> )	(m³ ha <sup>-1</sup> )	(kg ha <sup>-1</sup> )							
2	2	0	60	1420	20.0	12.7	17.8	12.7	122	32.0	80.7	8.8	121.5	0	43.2	3.6	15.9	2.2	11.4	4.7	19.2	0.9
2	2	5	65	1367	24.5		19.4	14.1	165	70.6	84.1	10.2	165.0	0	59.3	4.2	19.5	2.9	13.5	6.1	24.2	1.2
2	2	10	70	1305	28.9		20.9		213	106.8	98.1	8.4	213.3	0	78.4	3.4	23.0	3.6	15.4	7.5	29.4	1.6
2	2	15	75	1238	33.1		22.4		264	166.1	89.5	8.5	264.1	0	97.6	3.4	26.3	4.3	17.1	9.0	34.7	1.9
2	2	20	80	1168	36.6		23.8	18.1	313	207.5	99.0	6.4	312.8	0	116.8	2.6	29.1	4.9	18.4	10.4	39.3	2.2
2	2	25	85	1099	39.7		25.2		361	259.5	95.3	5.8	360.6	0	135.0	2.3	31.7	5.5	19.4	11.7	43.6	2.5
_	2	30 35	90 95	1032 970	42.5 44.9		26.5 27.8		406 449	308.4	92.7	5.3 4.8	406.4 449.5	0	152.3 168.5	2.1 1.9	34.0 36.0	6.0 6.5	20.2	13.0	47.6	2.8 3.0
2 2	2	35 40	100	912	44.9		27.8	22.3	489	366.5 413.5	78.2 71.6	4.8	449.5 489.5	0	183.4	1.7	37.7	6.9	20.9	14.2 15.3	51.3 54.6	3.3
2	2	45	105	858	48.9		30.2		526	452.4	69.8	4.4	526.3	0	197.1	1.6	39.2	7.3	21.5	16.3	57.6	3.5
2	2	50	110	810	50.4		31.3	24.1	560	489.6	66.6	3.7	559.9	0	209.5	1.4	40.5	7.6	21.9	17.2	60.2	3.8
3	2	0	60	1328	19.1		17.6	14.1	132	50.3	71.4	10.0	131.7	0	46.0	4.1	14.4	2.4	10.7	4.5	18.3	0.8
3	2	5	65	1293	22.6		18.9	15.3	169	74.5	86.2	8.7	169.4	0	60.9	3.5	17.1	2.9	12.4	5.5	22.2	1.0
3	2	10	70	1253	26.0	16.5	20.2	16.5	210	105.7	94.8	9.1	209.6	0	76.1	3.7	19.7	3.5	13.9	6.6	26.2	1.2
3	2	15	75	1208	29.3	17.6	21.4	17.6	251	137.5	106.3	7.3	251.1	0	92.7	2.9	22.2	4.1	15.2	7.8	30.1	1.5
3	2	20	80	1161	32.0	18.7	22.6	18.7	291	177.8	106.0	6.9	290.7	0	108.0	2.8	24.4	4.6	16.3	8.8	33.6	1.7
3	2	25	85	1112	34.5	19.7	23.7	19.7	330	227.6	95.4	6.5	329.6	0	122.9	2.6	26.3	5.1	17.2	9.8	37.0	2.0
3	2	30	90	1062	36.8	20.7	24.7	20.7	367	256.9	104.1	6.1	367.2	0	137.4	2.4	28.1	5.5	17.9	10.7	40.1	2.2
3	2	35	95	1014	38.8	21.6	25.7	21.6	403	309.3	88.0	5.7	403.0	0	151.2	2.3	29.7	5.9	18.5	11.6	43.0	2.5
3	2	40	100	967	40.6	22.4	26.7	22.4	437	342.9	88.6	5.3	436.9	0	164.1	2.1	31.1	6.3	19.0	12.5	45.7	2.7
3	2	45	105	922	42.2	23.2	27.7	23.2	469	381.6	82.1	4.9	468.6	0	176.2	2.0	32.4	6.7	19.4	13.3	48.1	2.9
3	2	50	110	880	43.6		28.6	24.0	498	411.2	82.3	4.6	498.1	0	187.5	1.8	33.6	7.0	19.7	14.0	50.3	3.2
3	1	0	60	1296	19.0		17.0	14.1	135	38.4	89.8	7.1	135.3	0	50.1	2.9	10.7	2.9	4.4	4.2	11.6	0.4
3	1	5	65	1264	21.8		18.2		165	50.6	109.2	5.4	165.2	0	62.6	2.2	11.9	3.5	4.8	5.0	14.1	0.4
3	1	10	70	1229	24.5	16.2	19.3	16.2	196	67.2	123.1	5.3	195.6	0	74.8	2.1	13.0	4.0	5.1	5.7	16.6	0.5
3	1	15	75	1191	26.7		20.3		224	93.2	125.2	5.2	223.6	0	86.0	2.1	13.8	4.4	5.3	6.4	18.9	0.6
3	1	20	80	1151	28.8		21.3		251	116.7	128.9	5.1	250.7	0	96.9	2.1	14.5	4.8	5.4	7.1	21.1	0.7
3	1	25	85	1109	30.6		22.2		276	140.8	130.6	5.0	276.4	0	107.3	2.0	15.1	5.2	5.5	7.7	23.2	0.7
3	1	30	90	1022	30.9		23.1		288	153.2	130.2	4.7	288.1	0	112.3	1.9	15.3	5.3	5.4	7.9	24.2	0.8
3	1	35	95	948	31.3		24.1	20.4	299	176.0	119.1	4.4	299.4	0	117.1	1.8	15.4	5.4	5.4	8.1	25.2	0.8
3	1	40	100	882	31.6		25.0	21.1	310	193.3	113.2	3.3	309.8	0	121.8	1.3	15.6	5.5	5.3	8.2	26.1	0.8
_	1	45 50	105 110	824 772	31.8		25.8 26.7	21.7	319 328	204.8	111.7	3.0	319.4	0	125.9 129.7	1.2	15.7	5.6 5.6	5.3	8.4	26.9	0.9
4	1	0	60	1131	32.1 16.0		16.2	12.9	105	215.0 18.9	110.6 81.9	4.8	328.3 105.5	0	39.6	1.1	15.8 9.5	2.4	5.2 4.0	8.5 3.4	27.7 9.4	0.9
4	1	5	65	1110	18.3		17.3	13.9	129	36.1	88.1	4.8	128.9	0	49.0	1.9	10.7	2.4	4.4	4.1	11.3	0.4
4	1	10	70	1087	20.7		18.4	14.9	155	47.4	102.3	4.9	154.5	0	59.1	2.0	11.9	3.3	4.7	4.8	13.5	0.4
4	1	15	75	1063	22.8		19.3	15.8	179	66.1	107.5	5.0	178.6	0	68.7	2.0	12.8	3.7	5.0	5.4	15.5	0.6
4	1	20	80	1038	24.8		20.3	16.7	203	85.1	112.3	5.2	202.6	0	78.3	2.1	13.6	4.1	5.1	6.0	17.5	0.6
4	1	25	85	1011	26.6		21.1	17.5	226	101.5	120.5	3.8	225.9	0	88.3	1.5	14.3	4.4	5.3	6.5	19.5	0.7
4	1	30	90	984	28.2		22.0		248	127.1	117.7	3.6	248.4	0	97.4	1.5	14.9	4.8	5.4	7.1	21.4	0.8
4	1	35	95	955	29.7		22.9		270	149.4	117.0	3.4	269.8	0	106.2	1.4	15.3	5.1	5.4	7.6	23.2	0.8
4	1	40	100	926	31.1		23.7		290	166.8	120.0	3.2	289.9	0	114.4	1.3	15.7	5.3	5.5	8.0	24.9	0.9
4	1	45	105	896	32.4	20.3	24.5	20.3	309	191.8	114.0	3.0	308.8	0	122.2	1.2	16.0	5.6	5.5	8.4	26.5	0.9
4	1	50	110	851	32.9	20.9	25.3	20.9	321	205.4	112.5	2.8	320.7	0	127.2	1.1	16.2	5.7	5.4	8.7	27.5	1.0
5	1	0	60	1266	12.9	10.5	13.8	10.5	71	6.0	59.3	5.7	71.0	0	25.9	2.3	7.1	1.9	3.2	2.5	6.5	0.3
5	1	5	65	1242	14.2	11.4	14.5	11.4	84	8.7	69.3	6.0	84.1	0	31.1	2.5	7.8	2.1	3.4	2.8	7.5	0.3
5	1	10	70	1217	15.4	12.3	15.1	12.3	97	12.3	78.6	6.4	97.2	0	36.3	2.6	8.4	2.3	3.6	3.2	8.5	0.4
5	1	15	75	1193	16.4	13.0	15.7	13.0	109	16.1	88.0	5.0	109.1	0	41.7	2.0	8.8	2.5	3.8	3.4	9.3	0.4
5	1	20	80	1168	17.2		16.2		121	18.6	97.1	5.0	120.6	0	46.4	2.0	9.3	2.6	4.0	3.7	10.1	0.5
5	1	25	85	1144	18.0	14.5	16.7	14.5	131	30.7	96.0	4.9	131.5	0	50.9	2.0	9.6	2.8	4.1	3.9	10.8	0.5
5	1	30	90	1120	18.7		17.2		142	36.9	100.7	4.8	142.4	0	55.4	1.9	10.0	2.9	4.2	4.2	11.5	0.6
5	1	35	95	1096	19.4		17.6	15.8	152	45.0	102.7	4.7	152.4	0	59.6	1.9	10.3	3.1	4.3	4.4	12.2	0.7
5	1	40	100	1072	20.0		18.0	16.3	162	49.4	107.9	4.6	161.8	0	63.6	1.9	10.6	3.2	4.4	4.6	12.8	0.7
5	1	45	105	1049	20.5		18.4	16.9	170	52.6	113.4	4.5	170.5	0	67.2	1.8	10.8	3.3	4.5	4.7	13.4	0.8
5	1	50	110	1027	20.9	17.4	18.8	17.4	178	62.4	111.6	4.4	178.4	0	70.5	1.8	11.0	3.4	4.6	4.9	13.9	0.8