

Supplementary Materials: Long Term Trends of Base Cation Budgets of Forests in the UK to Inform Sustainable Harvesting Practices

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Table S1. Averaged growth rate over the duration of the rotation and measured base cation concentrations used in calculating base cation uptake at the ICP Forest Level II sites in the UK.

Sites	Alice Holt	Savernake	Lakes	Thetford	Sherwood	Rannoch	Rogate	Coalburn	Tummel	Loch Awe	Llyn Brianne
Average growth rate over the duration of the rotation											
kg ha⁻¹ yr⁻¹											
stem wood	2541	1999	1643	4196	2727	3082	2591	5488	4736	6367	4723
stem bark	296	233	192	321	209	236	198	444	383	515	382
branches and foliage	709	558	459	540	351	396	333	1042	899	1209	896
total	3546	2790	2294	5057	3287	3714	3123	6974	6018	8091	6001
Ca, Mg and K concentration in wood compartments (%)											
Ca (%)											
Stem wood	0.08	0.01	0.06	0.09	0.07	0.10	0.09	0.07	0.07	0.04	0.04
Stem bark	1.980	2.090	1.080	0.290	0.070	0.140	0.290	0.580	0.478	0.390	0.340
Branch	0.400	0.400	0.400	0.183	0.183	0.183	0.183	0.196	0.196	0.196	0.196
Foliage	0.675	0.594	0.474	0.509	0.224	0.281	0.509	0.455	0.426	0.340	0.105
Mg (%)											
Stem wood	0.010	0.007	0.007	0.020	0.014	0.030	0.020	0.011	0.010	0.009	0.013
Stem bark	0.070	0.055	0.075	0.010	0.010	0.020	0.010	0.056	0.072	0.057	0.082
Branch	0.097	0.097	0.097	0.055	0.055	0.055	0.055	0.050	0.050	0.050	0.050
Foliage	0.171	0.144	0.144	0.082	0.068	0.091	0.082	0.088	0.091	0.012	0.095
[K] %											
Stem wood	0.08	0.08	0.07	0.05	0.05	0.06	0.05	0.05	0.06	0.04	0.06
Stem bark	0.190	0.190	0.130	0.020	0.030	0.060	0.020	0.230	0.400	0.270	0.320
Branch live (dead)	0.480	0.480	0.480	0.279	0.279	0.279	0.279	0.380	0.400	0.380	0.380
Foliage	1.110	0.864	0.733	0.542	0.789	0.631	0.542	0.753	0.980	0.982	0.838