

1 **Tables**

2 **Table 1.** Sites description and related previously published data

Site ID	Coordinates	Elevation range (m a.s.l.)	Catchment area (ha)	Soil underlying lithology	IUSS Soil type	Mean stream water pH (ANC)*	2015 tree biomass (t ha ⁻¹) ‡
LYS	50°02.2' N, 12°39.6' E	829-949	27	Felsic ((leuco)granite)	Podzol	4.2 (-50)	101
NAZ	49°59.8' N, 12°42.5' E	736-802	55	Mafic (amphibolite)	Cambisol	6.9 (+210)	277
PLB	50°03.8' N, 12°46.9' E	690-804	22	Ultramafic (serpentinite)	Stagnosol	7.3 (+990)	169

3 *in $\mu\text{eq L}^{-1}$, Krám et al. (2013) ‡ Krám et al. (2017).

4 **Table 2.** Soil SOC contents, pH_{H2O} and base saturation

ID Site	Mineral soil (depth cm)	SOC (g kg⁻¹)	Soil pH_{H2O}	Lumped Base Sat. (%)
LYS	(0-10)	26	3.8-4.3	7
	(10-20)	8.4		
	(20-40)	44		
	(40-90)	14		
NAZ	(0-10)	44	3.9-5.1	53
	(10-20)	19		
	(20-40)	5		
	(40-90)	2		
PLB	(0-10)	255	4.5-5.9	86
	(10-20)	31		
	(20-40)	14		
	(40-90)	-		

6 **Table 3.** Modelling parameters inputs and outputs from the runoff water generation model

Catch.	Mean Q mm/month	MRT months	P_{winter}	p_{summer}	V_{runoff} mm	V_{gw} mm
						216.2 ±
LYS	24.3 ± 2.6	13.2 ± 2.3	0.13 ± 0.04	0.14 ± 0.04	399.8 ± 17.9	20.6
						115.4 ±
NAZ	17.0 ± 1.5	8.9 ± 1.4	0.20 ± 0.03	0.31 ± 0.06	150.2 ± 29.6	28.7
						126.3 ±
PLB	19.5 ± 1.3	8.0 ± 1.4	0.21 ± 0.01	0.25 ± 0.02	156.4 ± 31.3	28.7

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