

This is an electronic appendix to the paper by Schmid *et al.* 2002 Scaling in stream communities. *Proc. R. Soc. Lond. B* **269**, 2587—2594.

Electronic appendices are refereed with the text. However, no attempt has been made to impose a uniform editorial style on the electronic appendices.

Appendix A. Sampling protocol to estimate mean seasonal population densities in the streambed sediments of two geographically separate streams, the Seebach (SB) and Mynach (MY). H, the number of Hess; FC, the number of Freeze-Core samples with prior electropositioning; *S*, the number of species found in each season and period; *S_T*, the total number of species found in a season.

Stream	Sampling period	Season	H	FC	S	S_T
SB	1991/1992	AU	40	-	362	
	1993/1994		10	10	313	385
	1991/1992	WI	45	-	343	
	1993/1994		41	10	345	375
	1991/1992	SP	45	-	345	
	1993/1994		40	5	367	397
	1991/1992	SU	45	-	356	
	1993/1994		15	5	340	389
MY	1993/1994	AU	12	10	240	
	1996/1997		60	-	180	249
	1993/1994	WI	18	10	165	
	1996/1997		60	-	136	187
	1993/1994	SP	8	5	149	
	1996/1997		60	-	222	243
	1993/1994	SU	8	5	184	
	1996/1997		60	-	182	227