

Table S1: Matching subbasins from the SWAT model with stretches from the temperature study, groundwater contribution after Kaule and Gilfedder (2021) (GW) where applicable and BFI calculated based on the simulated outflow for different time periods: mean over the whole period (excluding warm-up), and summer (su) 2018, 2019 and 2020.

Stretch	EB1	EB1	HB1	HB2- HB1	HB3- HB2	MB1	MB1	MB2- MB1	MB3- MB2	MB4- MB3	BB2- BB1	BB4- BB2	BB5- BB4
Subbasin	1	2	7	11	23	28	35	31	30	18	70	53	45
GW	-	-	-	-	low	high	high	high	high	low	-	-	-
Mean BFI	0.86	0.85	0.82	0.85	0.83	0.82	0.74	0.79	0.80	0.81	0.69	0.67	0.69
BFI su 2018	0.72	0.72	0.72	0.73	0.81	0.98	0.94	0.96	0.95	0.94	0.95	0.91	0.91
BFI su 2019	0.97	0.97	0.94	0.96	0.92	0.99	0.97	0.98	0.97	0.96	0.91	0.87	0.88
BFI su 2020	0.61	0.58	0.53	0.58	0.57	0.67	0.47	0.56	0.59	0.58	0.45	0.40	0.43