

Supplementary Information

Invertebrate drift densities in the Njoro and Kamweti Rivers in the Kenyan highlands that differ in the level of anthropogenic disturbances

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Figure S1: The reach sampled at the Kamweti River. The blue arrow shows the direction of water flow.

Table S1: Sampling dates at the Njoro and Kamweti Rivers

River	Sampling months	
	February	March
Njoro	27/2/2016; 28/2/2016	6/3/2016; 28/3/2016
Kamweti	1/3/2016; 2/3/2016; 8/3/2016; 15/3/2016; 29/3/2016	

Table S2: Mean (\pm SE) densities (individuals m⁻³) of drifting invertebrates at the Kamweti River during day and night time (minutes) intervals

Family	Kamweti River									
	Day					Night				
	Time (min)	5	10	15	20	25	5	10	15	20
Chironomidae	1.3 (0.6)	0.5 (0.2)	0.6 (0.2)	0.6 (0.2)	0.4 (0.2)	0.7 (0.3)	0.3 (0.1)	0.5 (0.2)	0.3 (0.1)	0.2 (0.1)
Baetidae	10.1 (1.8)	5.1 (1.1)	4.4 (1.0)	2.8 (0.4)	2.9 (0.5)	16.8 (5.0)	11.2 (4.6)	4.1 (1.4)	3.5 (0.9)	3.6 (0.9)
Simuliidae	0 (0)	0.04 (0.02)	0 (0)	0.01 (0.01)	0.07 (0.06)	0.08 (0.07)	0.03 (0.02)	0 (0)	0.01 (0.01)	0.03 (0.02)
Caenidae	0 (0)	0 (0)	0.01 (0.01)	0.03 (0.02)	0.01 (0.01)	0 (0)	0.04 (0.03)	0 (0)	0.03 (0.02)	0 (0)
Elmidae	0.4 (0.1)	0.2 (0.1)	0.1 (0.03)	0.2 (0.09)	0.08 (0.02)	0.07 (0.06)	0.21 (0.07)	0.1 (0.08)	0.4 (0.2)	0.1 (0.05)
Culicidae	0.04 (0.04)	0.02 (0.01)	0.02 (0.01)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.1 (0.07)
Hydropsychidae	0.03 (0.02)	0.02 (0.01)	0 (0)	0.02 (0.01)	0.02 (0.01)	0.02 (0.01)	0 (0)	0 (0)	0 (0)	0.03 (0.02)
Ceratopogonidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Coenagrionidae	0 (0)	0 (0)	0.004 (0.003)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.005 (0.004)
Libellulidae	0 (0)	0.01 (0.01)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Gyrinidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Leptoceridae	0.1 (0.1)	0.08 (0.06)	0.04 (0.02)	0.01 (0.01)	0.02 (0.01)	0.06 (0.06)	0 (0)	0.04 (0.03)	0.02 (0.01)	0 (0)
Hydraenidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Pyrallidae	0 (0)	0.03 (0.03)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Hydrophilidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Helodidae	0.5 (0.3)	0.12 (0.04)	0.2 (0.07)	0.2 (0.05)	0.09 (0.03)	0.4 (0.2)	0.2 (0.1)	0.03 (0.02)	0.2 (0.1)	0.1 (0.07)
Dysticidae	0.06 (0.06)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Veliidae	0 (0)	0.01 (0.01)	0 (0)	0 (0)	0.01 (0.01)	0 (0)	0.03 (0.02)	0.02 (0.01)	0.02 (0.01)	0 (0)
Tipulidae	0 (0)	0 (0)	0 (0)	0.02 (0.01)	0 (0)	0 (0)	0.04 (0.02)	0.04 (0.04)	0 (0)	0 (0)
Heptagenidae	0.2 (0.08)	0.2 (0.09)	0.2 (0.1)	0.07 (0.05)	0.04 (0.02)	0.4 (0.3)	0.2 (0.08)	0.02 (0.01)	0.1 (0.06)	0.1 (0.05)
Dixidae	0 (0)	0 (0)	0.01 (0.01)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Aeshnidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Others	0.5 (0.2)	0.5 (0.2)	0.4 (0.1)	0.2 (0.06)	0.4 (0.1)	2.4 (1.3)	0.7 (0.3)	0.3 (0.2)	0.6 (0.1)	0.5 (0.2)
Overall mean density	0.6 (0.1)	0.3 (0.06)	0.3 (0.05)	0.2 (0.03)	0.2 (0.02)	0.9 (0.3)	0.5 (0.2)	0.2 (0.07)	0.2 (0.05)	0.2 (0.05)

Table S3: Mean (\pm SE) densities (individuals m⁻³) of drifting invertebrates at the Njoro River during day and night time (minutes) intervals

Family	Njoro River									
	Day					Night				
Time	5	10	15	20	25	5	10	15	20	25
Chironomidae	34.3 (7.3)	20.1 (3.1)	17.2 (3.2)	17.6 (2.8)	12.4 (2.1)	19.5 (5.9)	10.8 (1.8)	7.6 (1.7)	13.7 (3.6)	5.5 (1.5)
Baetidae	22.3 (3.0)	9.6 (2.7)	0.7 (1.8)	7.4 (2.4)	5.4 (1.0)	18.6 (6.2)	9 (2.4)	6.3 (1.1)	7.7 (1.8)	5.5 (1.3)
Simuliidae	1.3 (0.5)	1.8 (0.6)	1.2 (0.4)	1.2 (0.5)	0.4 (0.2)	1.9 (0.6)	0.4 (0.3)	0.4 (0.2)	0.2 (0.1)	0.4 (0.2)
Caenidae	9.3 (3.5)	5.1 (1.7)	3.7 (0.9)	3.1 (1.2)	2.9 (0.8)	4.8 (2.1)	2.5 (0.9)	2.4 (0.5)	0.9 (0.4)	0.4 (0.2)
Elmidae	4.5 (1.4)	3.7 (0.9)	1.9 (0.4)	1.3 (0.3)	1.5 (0.5)	3.1 (2.4)	2.5 (1.6)	2 (0.5)	1.5 (0.6)	0.6 (0.2)
Culicidae	1.5 (0.8)	2.6 (0.8)	2.2 (0.5)	1.2 (0.2)	1.1 (0.3)	2.1 (0.7)	1.8 (0.5)	0.7 (0.2)	1.1 (0.4)	0.2 (0.1)
Hydropsychidae	1.1 (0.7)	0.5 (0.2)	0.5 (0.4)	0.5 (0.2)	0.1 (0.1)	0.7 (0.5)	0.6 (0.3)	0.7 (0.3)	0.5 (0.2)	0.03 (0.02)
Ceratopogonidae	0.2 (0.1)	1.3 (0.7)	0.5 (0.4)	0.1 (0.1)	0.4 (0.2)	0.3 (0.2)	0 (0)	0.3 (0.20)	0.05 (0.04)	0 (0)
Coenagrionidae	0 (0)	0.1 (0.1)	0.1 (0.1)	0.6 (0.4)	0.2 (0.08)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Libellulidae	0.3 (0.2)	0 (0)	0 (0)	0.06 (0.05)	0.05 (0.04)	0 (0)	0 (0)	0.3 (0.1)	0 (0)	0 (0)
Gyrinidae	0 (0)	0 (0)	0 (0)	0 (0)	0.1 (0.1)	0 (0)	0 (0)	0.3 (0.1)	0.02 (0.01)	0 (0)
Leptoceridae	0.3 (0.2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0.1 (0.09)
Hydraenidae	0 (0)	0 (0)	0 (0)	0 (0)	0.04 (0.04)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	v
Pylalidae	0 (0)	0.2 (0.1)	0 (0)	0.1 (0.01)	0 (0)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Hydrophilidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Helodidae	0 (0)	0 (0)	0 (0)	0.05 (0.05)	0.1 (0.08)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Dysticidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.1 (0.1)	0.4 (0.2)	0 (0)	0.09 (0.08)
Veliidae	0 (0)	0 (0)	0.02 (0.01)	0 (0)	0 (0)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Tipulidae	0 (0)	0.08 (0.08)	0 (0)	0 (0)	0 (0)	0 (0)	0.1 (0.1)	0.3 (0.2)	0 (0)	0.03 (0.02)
Heptageniidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.08 (0.07)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Dixidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Aeshnidae	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.3 (0.2)	0 (0)	0 (0)
Others	10.1 (2.4)	5.3 (1.4)	5.9 (1.3)	4.1 (0.6)	2.6 (0.4)	10.1 (1.7)	0.4 (0.3)	3.4 (0.4)	4.2 (1)	4.4 (0.5)
Overall mean density	3.6 (0.5)	2.1 (0.3)	1.8 (0.2)	1.6 (0.3)	1.1 (0.2)	2.5 (0.6)	1.3 (0.2)	1.2 (0.2)	1.2 (0.2)	0.8 (0.1)