



FAMILY ECNOMIDAE

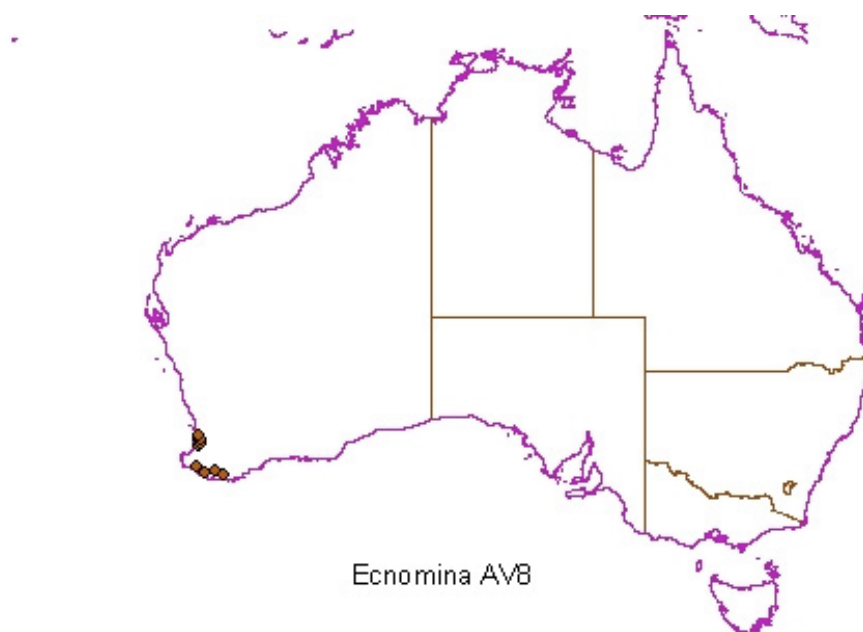
Habitat profile for *Ecnomina* sp. AV8

Ecnomina sp. AV8 was recorded from 12 southern Western Australian localities in this study (Sutcliffe 2003).

Ecnomina sp. AV8 was generally recorded in channel habitat samples from relatively low altitude streams between 80-260 m (Chart a), <13 km from the source (Chart b), with predominantly sand and gravel substrate with >20% detritus cover (Chart c). The streams were small, <4 m wide (Chart d) with low alkalinity <14 mg/L (Chart e) and moderate conductivity mostly between 170-260 μ S/cm (Chart f).

The following generalities can be made about the other parameters listed in the Table: moderate recorded water temperatures between 11-17 °C, pH generally acidic (range 4.9-7.1) and very low turbidity (<3.1 NTU).

Mean, median and range for selected physical and chemical parameters are given in the Table.

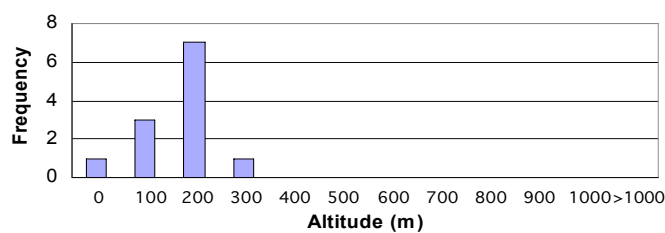


Distribution of *Ecnomina* sp AV8 in Australia.

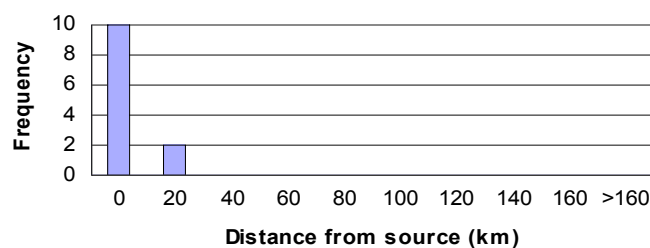


Charts for *Ecnomina* sp AV8

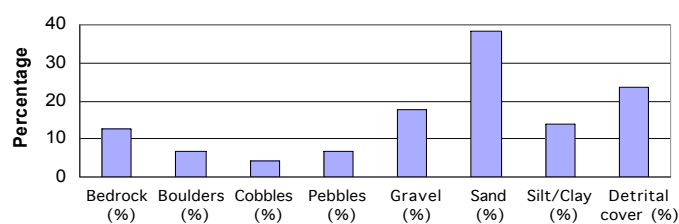
a) Altitude



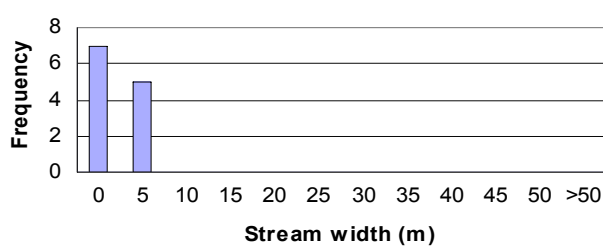
b) Distance from source



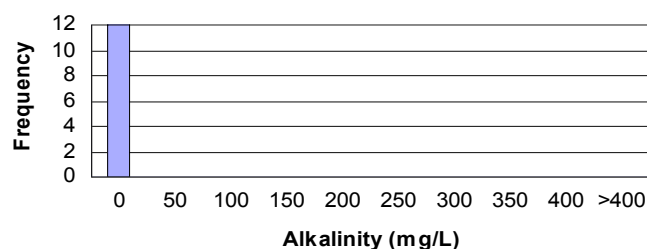
c) Substrate Particle Size



d) Stream Width



e) Alkalinity





f) Conductivity

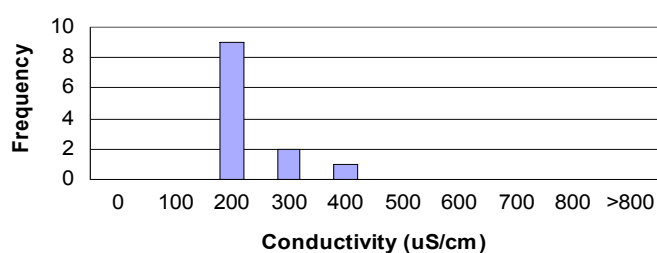


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Ecnomina* sp. AV8 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	181	215	20-260	12
Distance from source (km)	6.6	6.5	2-12	12
Stream width (m)	2.3	2.2	0.8-5	12
Stream depth (m)				
Water temperature (°C)	13.3	12.7	8.9-16.9	12
Conductivity (µS/cm)	221	198	169-427	12
pH	6.2	6.4	4.3-7.5	12
Alkalinity (mg/L)	9.3	10	1-19	12
Turbidity (NTU)	1.6	1.0	0.3-5.7	12
Total N (mg/L)	0.32	0.17	0.07-0.92	12
NO ₃ -N (mg/L)	0.027	0.025	0.01-0.05	12
Total P (mg/L)	0.028	0.008	0.005-0.26	12
P SR (mg/L)	0.006	0.005	0.005-0.01	12

References

Sutcliffe K (2003) The conservation status of aquatic insects in south-western Australia. Doctor of Philosophy thesis, Murdoch University.