



FAMILY ECNOMIDAE

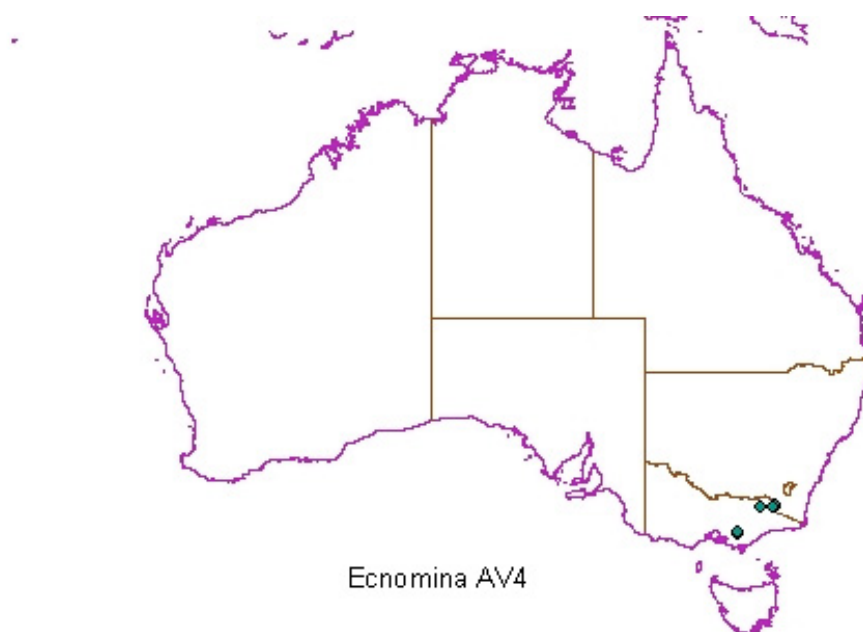
Habitat profile for *Ecnomina* sp. AV4

Ecnomina sp. AV4 was recorded from only 7 Victorian and New South Wales samples in this study.

Ecnomina sp. AV4 was recorded from sweep, edge and pool habitat samples from low to high altitude streams between 70-1700 m (Chart a), 7.6-88 km from the source (Chart b), with predominantly cobbles, boulders and pebbles substrate with low (<5%) detritus cover (Chart c). The streams were small to medium between 5-12 m wide (Chart d), depth of 0.23-0.4 m (Chart e), with low alkalinity of 8-22 mg/L (Chart f) and low conductivity between 4-74.5 $\mu\text{S}/\text{cm}$ (Chart g).

The following can be stated about the other parameters listed in the Table: low to moderate recorded water temperatures of between 8.6-20°C, neutral to alkaline pH in the range 7-7.9 and low turbidity of 1.5-9 NTU.

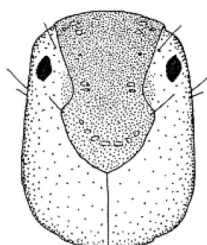
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Ecnomina* sp AV4 in Australia

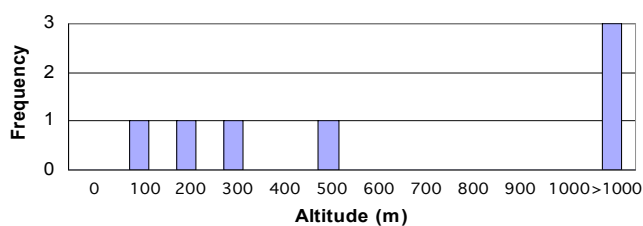


Ecnomina sp AV4, head and typical habitat

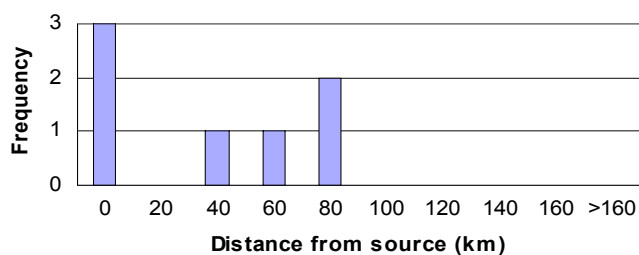


Charts for *Ecnomina* sp AV4

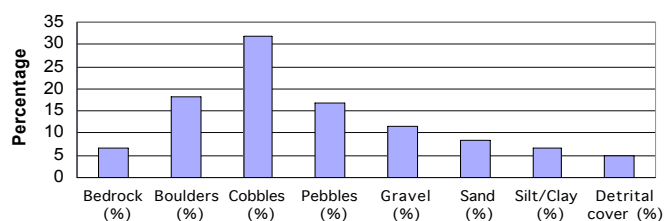
a) Altitude



b) Distance from source

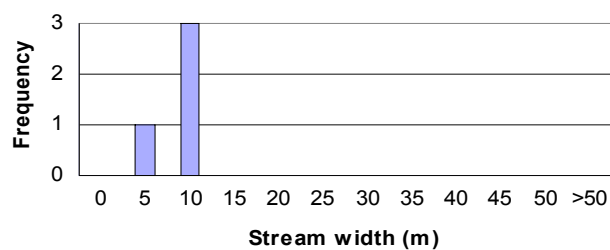


c) Substrate Particle Size

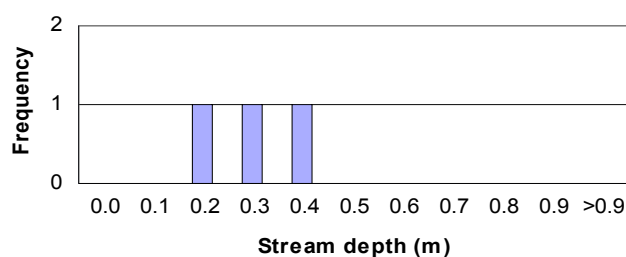




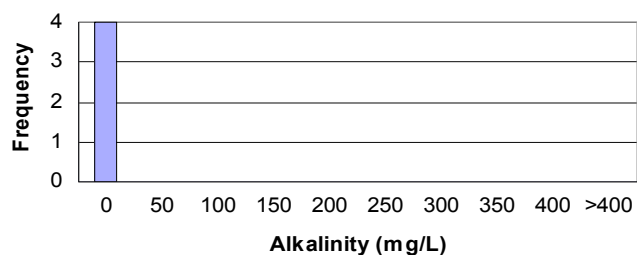
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

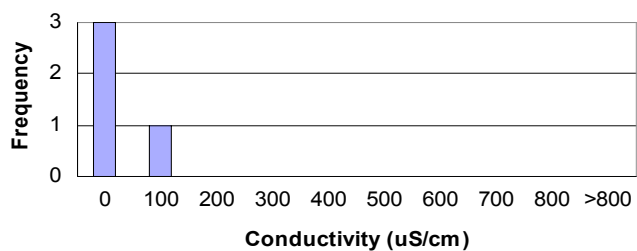




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Ecnomina* sp. AV4 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	844	520	70-1700	7
Distance from source (km)	40	37	7.6-88	7
Stream width (m)	8.8	9	5-12	4
Stream depth (m)	0.31	0.3	0.23-0.4	3
Water temperature (°C)	15.0	15.6	8.6-20	4
Conductivity (µS/cm)	29	18.5	4-74.5	4
pH	7.4	7.3	7.0-7.9	4
Alkalinity (mg/L)	13.5	12	8-22	4
Turbidity (NTU)	4.3	3.2	1.5-9	4
Total N (mg/L)				
NO ₃ -N (mg/L)	0.06	0.05	0.01-0.14	4
Total P (mg/L)	0.015	0.013	0.01-0.025	4