



## FAMILY ECNOMIDAE

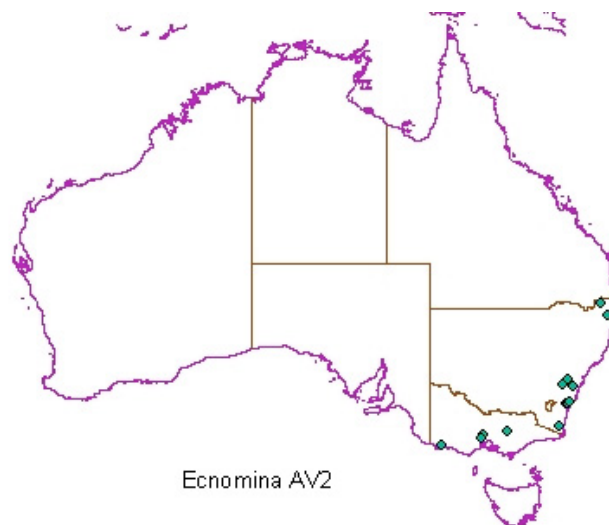
### Habitat profile for *Ecnomina* sp. AV2

*Ecnomina* sp. AV2 was recorded from 19 Victorian and New South Wales localities in this study.

*Ecnomina* sp. AV2 was generally recorded in edge and riffle habitat samples from low to medium altitude streams below 850 m (Chart a), <50 km from the source (Chart b), with predominantly cobbles, pebbles and sand substrate with high (>20%) detritus cover (Chart c). The streams were small to medium <16 m wide (Chart d), depth <0.5 m (Chart e), with low alkalinity between 10-50 mg/L (Chart f) and moderate conductivity mostly between 15-450  $\mu$ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: moderate recorded water temperature (between 13-19°C), pH circum-neutral (range 6.3-7.8), and very low turbidity (<12.5 NTU).

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

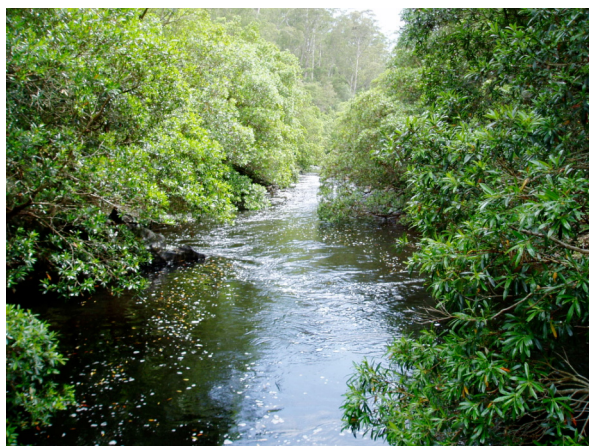
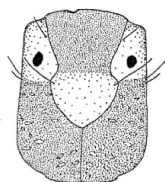


*Ecnomina* AV2

Distribution of *Ecnomina* sp AV2 in Australia

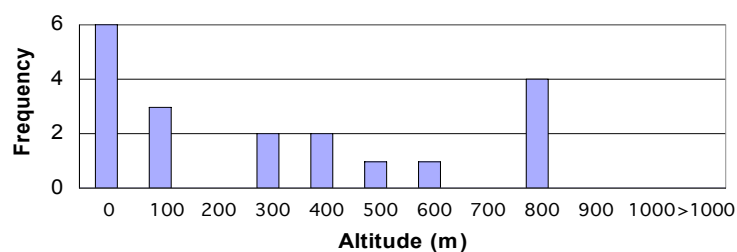


*Ecnomina* sp AV2, head and typical habitat

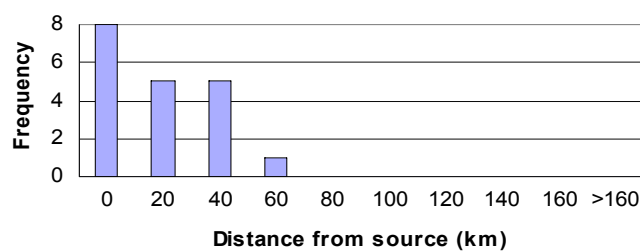


Charts for *Ecnomina* sp AV2

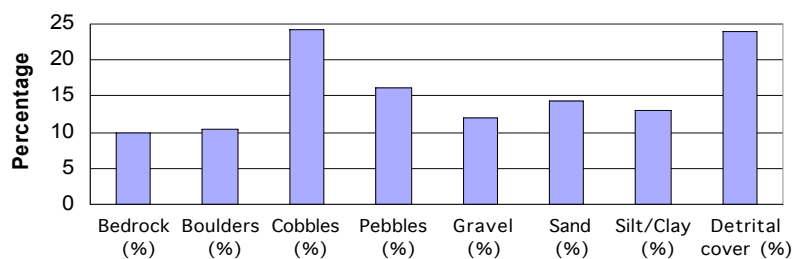
a) Altitude



b) Distance from source

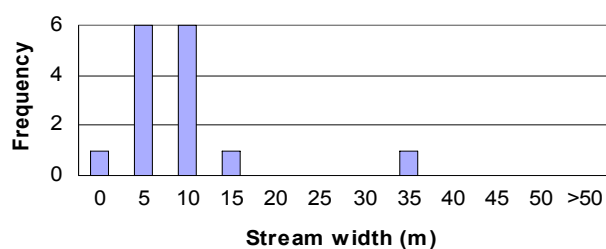


c) Substrate Particle Size

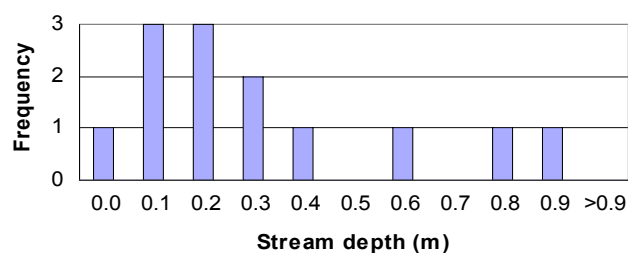




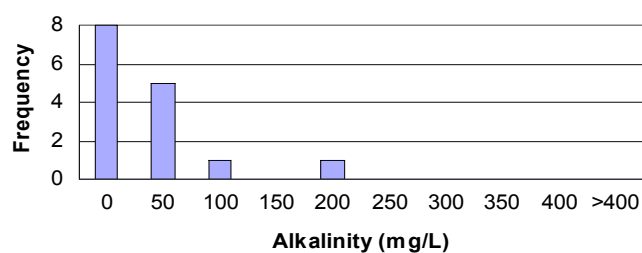
d) Stream Width



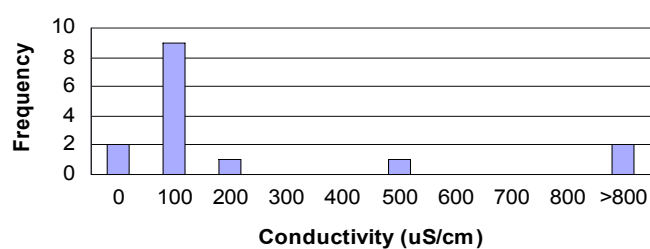
e) Depth



f) Alkalinity



g) Conductivity





**Table.** Mean, median and range for selected physical and chemical parameters and habitat categories for *Ecnomina* sp. AV2 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	326	310	15-840	19
Distance from source (km)	18.9	10.1	1.6-61	19
Stream width (m)	9.1	8.0	1-35	15
Stream depth (m)	0.31	0.2	0.03-0.9	13
Water temperature (°C)	15.8	16.8	6.2-19.3	15
Conductivity (µS/cm)	248	70	15-1454	15
pH	7.1	7.1	5.9-8.0	15
Alkalinity (mg/L)	41	21	10-210	15
Turbidity (NTU)	5.9	6.0	0-16.6	15
Total N (mg/L)	0.06	0	0-0.43	7
NO <sub>3</sub> -N (mg/L)	0.03	0.016	0.005-0.12	10
Total P (mg/L)	0.014	0.011	0.011-0.032	10