



FAMILY ECNOMIDAE

Habitat profile for *Ecnomina* Genus F sp. 32

Ecnomina F sp. 32 was recorded from 6 New South Wales localities in this study.

Ecnomina F sp. 32 was recorded in edge and riffle habitat samples from moderate to high altitude streams between 550-990 m (Chart a), a small distance from the source at between 0.26-5.4 km (Chart b), with predominantly bedrock, cobble and pebble substrate with <15% detritus cover (Chart c). The streams were small to medium between 2-7 m wide (Chart d), depth between 0.11-0.2 m (Chart e), with low alkalinity between 10-23 mg/L (Chart f) and low conductivity of <100 µS/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: cool-moderate recorded water temperatures of 9.5-11.9°C, acidic to near neutral pH in the range 4.4-7.6, and very low turbidity (<1.7 NTU).

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

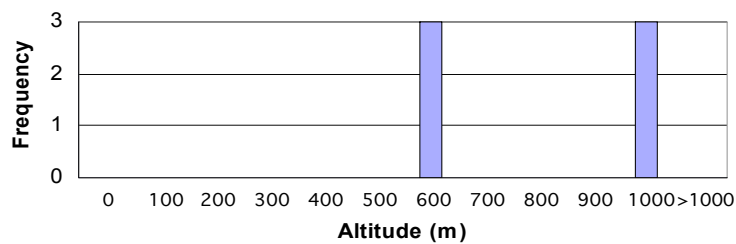


Distribution of *Ecnomina* sp AV32 in Australia.

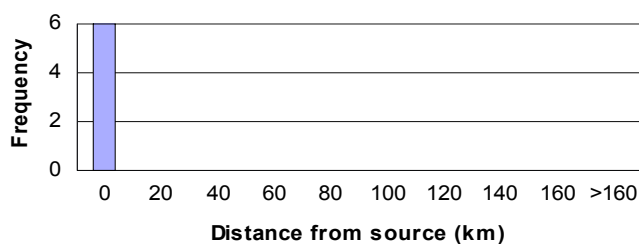


Charts for *Ecnomina* sp AV32

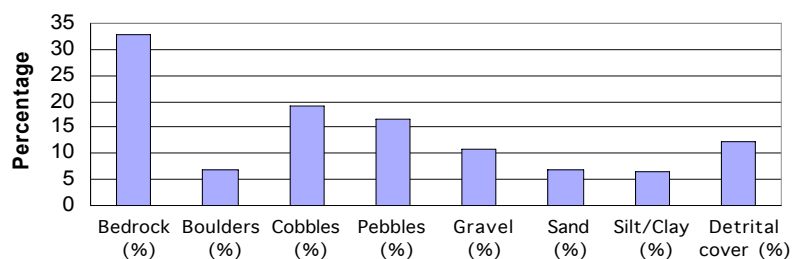
a) Altitude



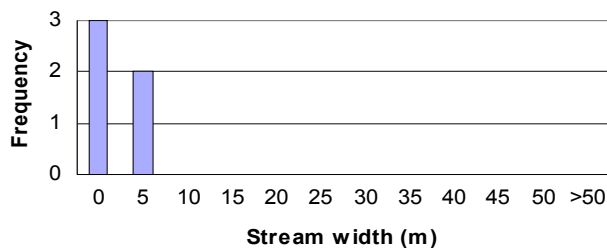
b) Distance from source



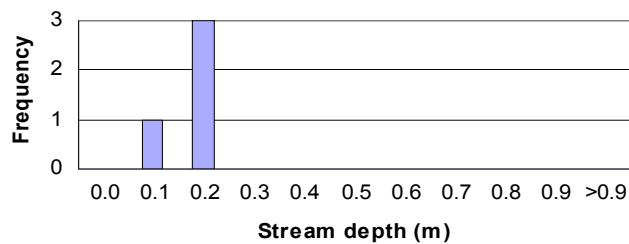
c) Substrate Particle Size



d) Stream Width

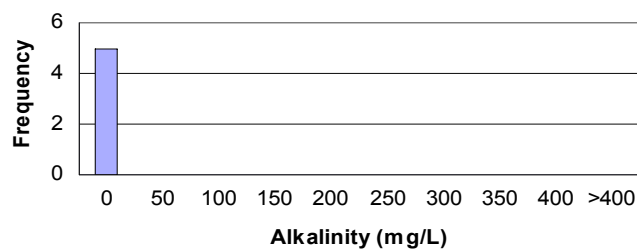


e) Depth





f) Alkalinity



g) Conductivity

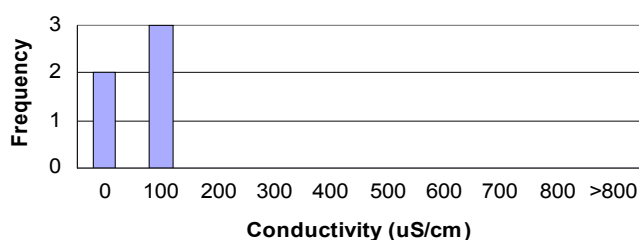


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Ecnomina* F sp. 32 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	790	800	550-990	6
Distance from source (km)	2.4	1.5	0.26-5.4	6
Stream width (m)	3.2	2	2-7	5
Stream depth (m)	0.17	0.18	0.11-0.2	4
Water temperature (°C)	10.8	11.1	9.5-11.9	5
Conductivity (µS/cm)	50	53	1-100	5
pH	6.5	6.6	4.4-7.6	5
Alkalinity (mg/L)	15.1	10.0	10-23	5
Turbidity (NTU)	0.6	0.2	0-1.6	5
Total N (mg/L)				
NO ₃ -N (mg/L)	0.034	0.03	0.01-0.06	5
Total P (mg/L)	0.026	0.018	0.011-0.055	5
P SR (mg/L)	0.01	0.01	0.01	5