



FAMILY ECNOMIDAE

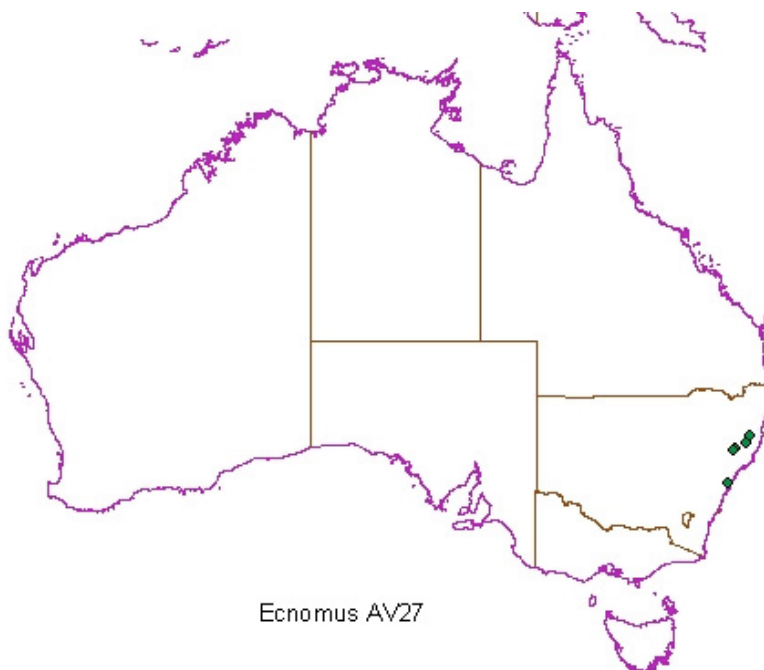
Habitat profile for *Ecnomus* sp. 27

Ecnomus sp. 27 was recorded from only 5 New South Wales localities in this study.

Ecnomus sp. 27 was recorded in pool and edge habitat samples from streams between 10-1200 m altitude (Chart a), between 0.3-30 km from the source (Chart b), with a fairly even spread of substrates and <20% detritus cover (Chart c). The streams were small, between 2-7 m wide (Chart d), depth between 0.1-0.2 m (Chart e), with low alkalinity between 10-23 mg/L (Chart f) and moderate conductivity between 70-93 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: relatively moderate recorded water temperatures of 11.8-18.5 °C, circum-neutral pH between 6.4-7.5, and low turbidity between 1-15.5 NTU.

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

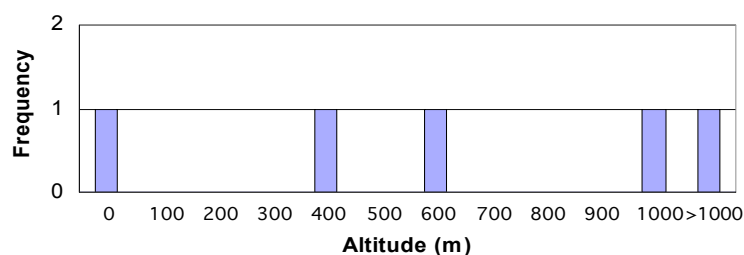


Distribution of *Ecnomus* sp AV27 in Australia.

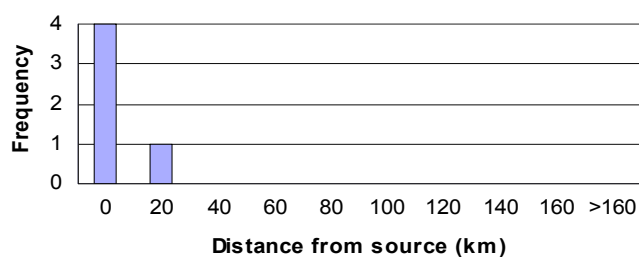


Charts for *Ecnomus* sp AV27

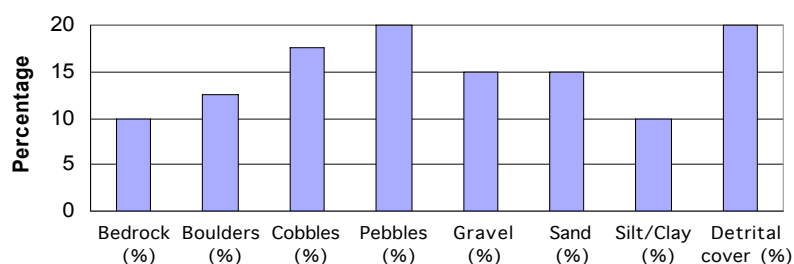
a) Altitude



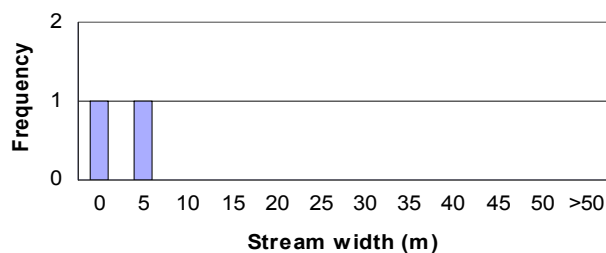
b) Distance from source



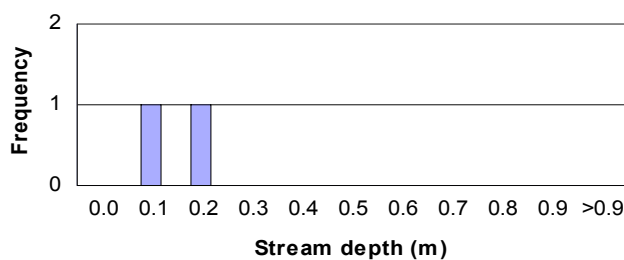
c) Substrate Particle Size



d) Stream Width

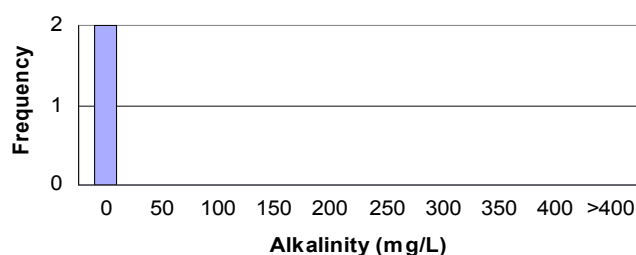


e) Depth





f) Alkalinity



g) Conductivity

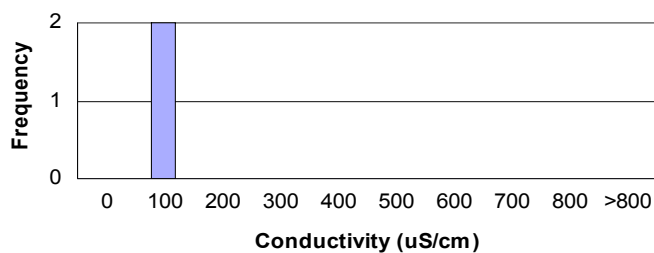


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Ecnomus* sp. 27 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	650	620	10-1200	5
Distance from source (km)	8.8	5.4	0.3-30	5
Stream width (m)	4.5	4.5	2-7	2
Stream depth (m)	0.15	0.15	0.11-0.2	2
Water temperature (°C)	15.2	15.2	11.8-18.5	2
Conductivity (µS/cm)	81.5	81.5	70-93	2
pH	6.9	6.9	6.4-7.5	2
Alkalinity (mg/L)	16.5	16.5	10-23	2
Turbidity (NTU)	8.3	8.3	1-15.5	2
Total N (mg/L)	0.38	0.38	0.38	1
NO ₃ -N (mg/L)	0.03	0.03	0.01-0.05	2
Total P (mg/L)	0.01	0.01	0.01	2