



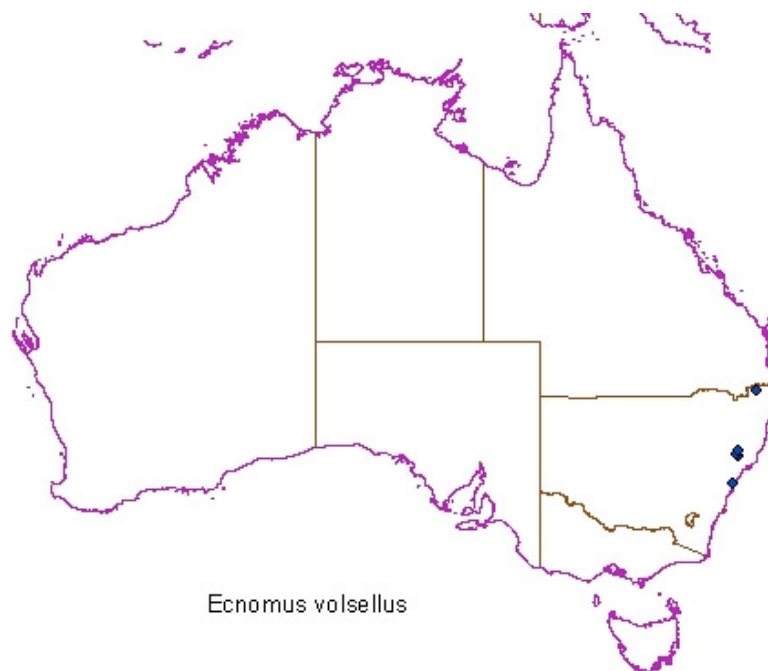
FAMILY ECNOMIDAE

Habitat profile for *Ecnomus volsellus* Cartwright

Ecnomus volsellus Cartwright was recorded from only 6 New South Wales localities in this study. This species was previously recorded from eastern Australia, eastern Victoria to south-eastern Queensland (Cartwright 1990).

In this study, *E. volsellus* was recorded in pool and edge habitat samples from streams between 10-1400 m altitude (Chart a), between 0.6-20 km from the source (Chart b), with predominantly boulders and cobble substrate and moderate to high (60%) detritus cover (Chart c). The streams were small, between 1-8 m wide (Chart d) 0.4 m deep (Chart e), with low alkalinity between 10-21 mg/L (Chart f) and low conductivity between 9-102 $\mu\text{S}/\text{cm}$ (Chart g).

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

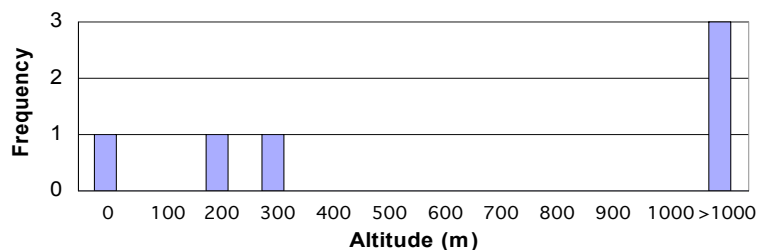


Distribution of *Ecnomus volsellus* in Australia.

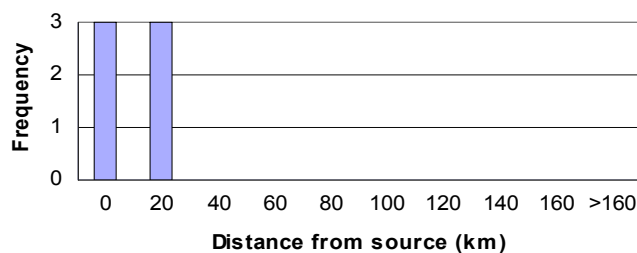


Charts for *Ecnomus volsellus*

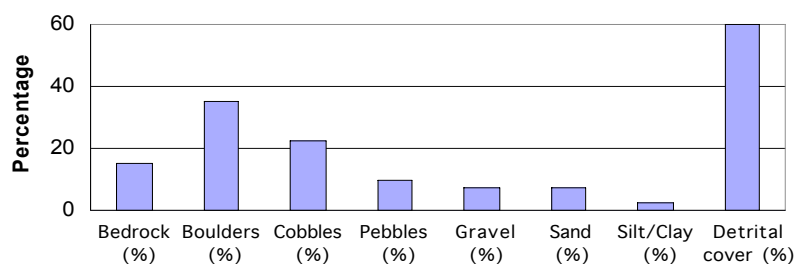
a) Altitude



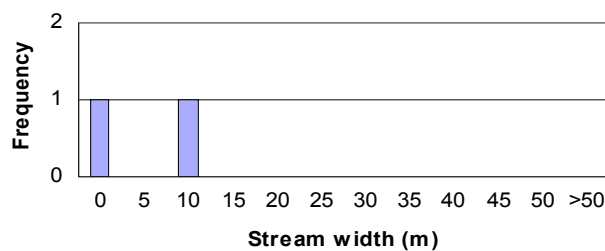
b) Distance from source



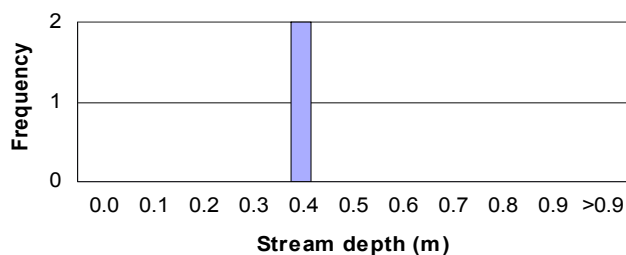
c) Substrate Particle Size



d) Stream Width

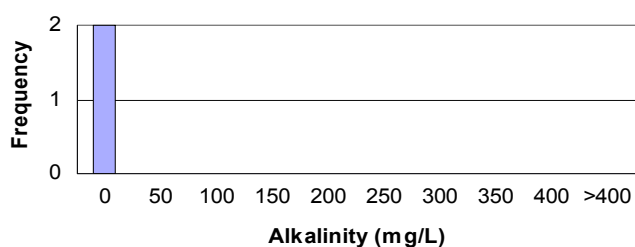


e) Depth





f) Alkalinity



g) Conductivity

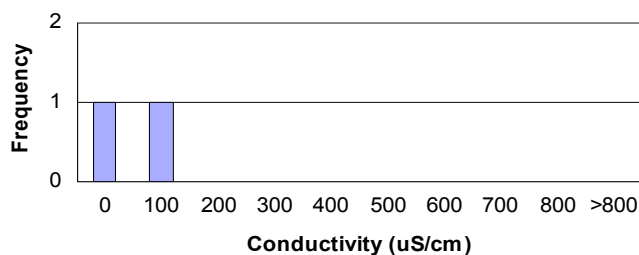


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *E. volsellus* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	662	660	10-1400	6
Distance from source (km)	10.5	10	0.6-20	6
Stream width (m)	4.5	4.5	1-8	2
Stream depth (m)	0.4	0.4	0.4	2
Water temperature (°C)	14.4	14.4	14.3-14.5	2
Conductivity (µS/cm)	55.5	55.5	9-102	2
pH	6.7	6.7	5.2-8.2	2
Alkalinity (mg/L)	15.5	15.5	10-21	2
Turbidity (NTU)	3.2	3.2	0-6.4	2
Total N (mg/L)				
NO ₃ -N (mg/L)	0.01	0.01	0.01	2
Total P (mg/L)	0.01	0.01	0.01	2

References

Cartwright DI (1990) The Australian species of *Ecnomus* McLachlan (Trichoptera: Ecnomidae). *Memoirs of the Museum of Victoria* **51**, 1-48.