



FAMILY ECNOMIDAE

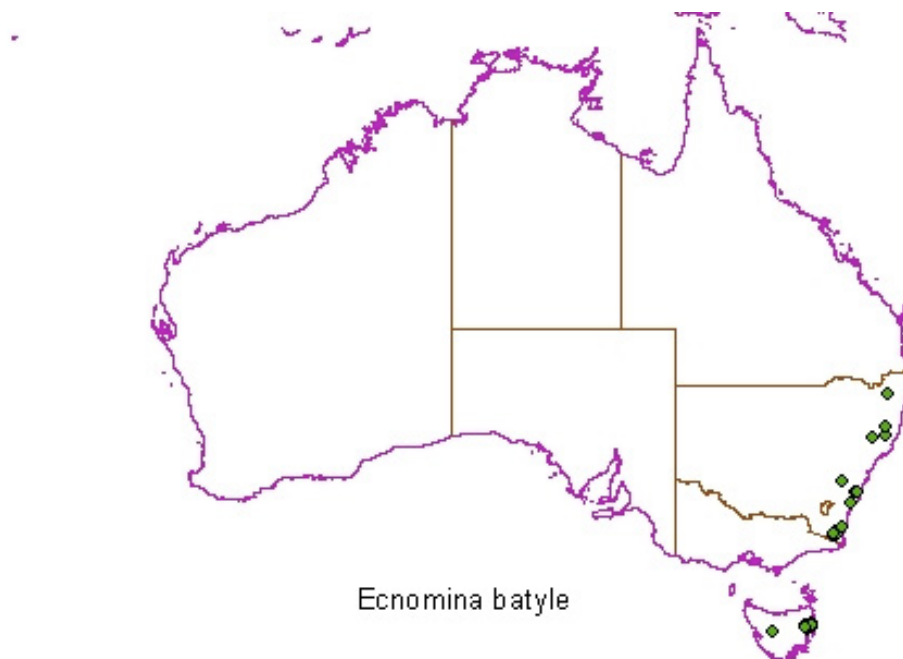
Habitat profile for *Ecnomina batyle* Neboiss

Ecnomina batyle Neboiss was recorded from 38 Tasmanian, Victorian and New South Wales localities in this study.

E. batyle was recorded in an even spread of edge, pool and riffle habitat samples from low to moderate altitude streams below 915 m altitude (Chart a), <30 km from the source (Chart b), with predominantly cobbles, pebbles and gravel substrates with <15% detritus cover (Chart c). The streams were generally large between 2-33 m width (Chart d) and depth <0.5 m (Chart e) and mainly low alkalinity <38 mg/L (Chart f) and low to moderate conductivity (<221 μ S/cm) (Chart g).

The following generalities can be made about the other parameters listed in the Table: relatively low to moderate recorded water temperature (between 6.5-25°C), pH circum-neutral (range 6.1-8.2), and low turbidity (<25 NTU).

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



Distribution of *Ecnomina batyle* in Australia.

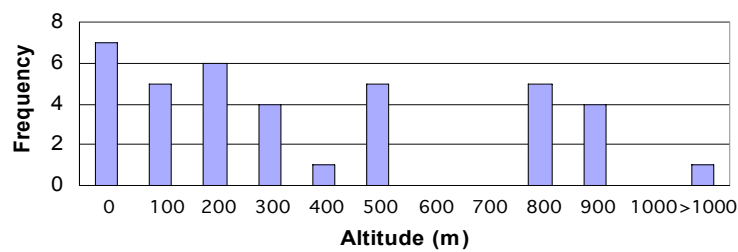


Ecnomina batyle, typical habitat

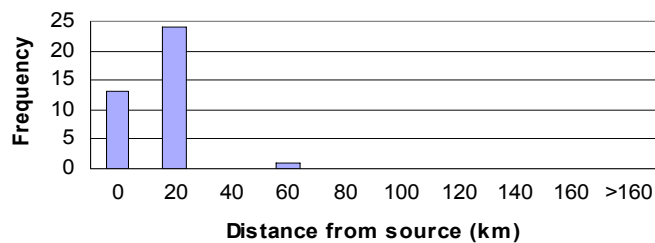


Charts for *Ecnomina batyle*

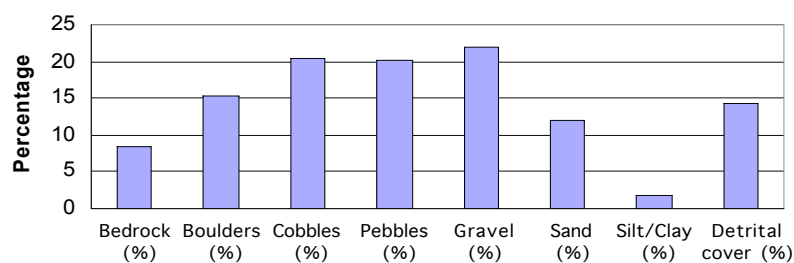
a) Altitude



b) Distance from source

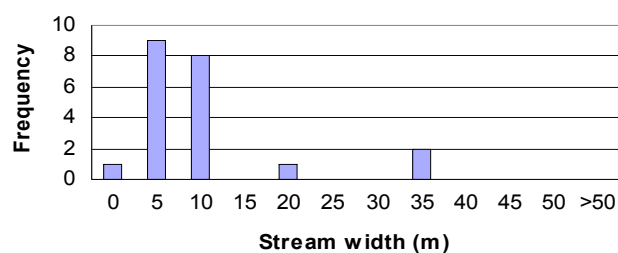


c) Substrate Particle Size

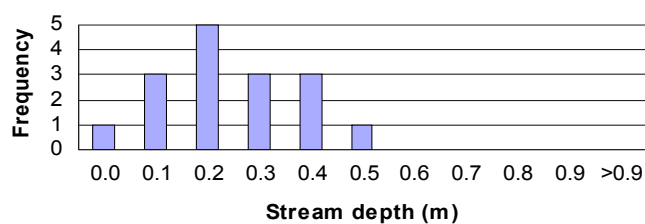




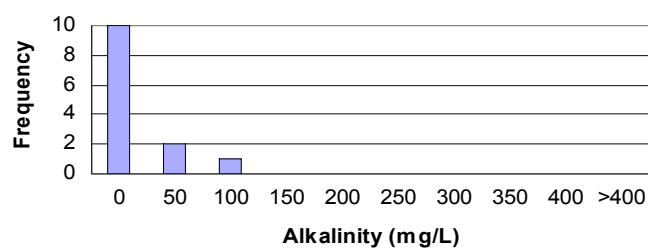
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

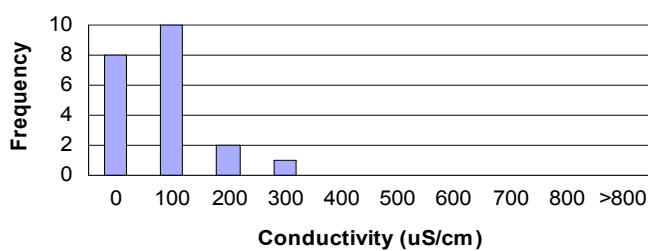




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *E. batyle* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	391	300	10-1010	38
Distance from source (km)	14.7	11.8	3.4-50	38
Stream width (m)	10.0	8	2-33	21
Stream depth (m)	0.24	0.2	0.03-0.5	16
Water temperature (°C)	14.7	13.6	6.5-25	13
Conductivity (µS/cm)	86	70	18-292	21
pH	7.2	7.3	6.1-8.2	13
Alkalinity (mg/L)	24	18	4-105	13
Turbidity (NTU)	3.9	1.1	0-24.5	13
Total N (mg/L)	0.28	0.25	0.07-0.54	4
NO ₃ -N (mg/L)	0.076	0.01	0.002-0.26	12
Total P (mg/L)	0.013	0.01	0.002-0.054	12