



FAMILY ECNOMIDAE

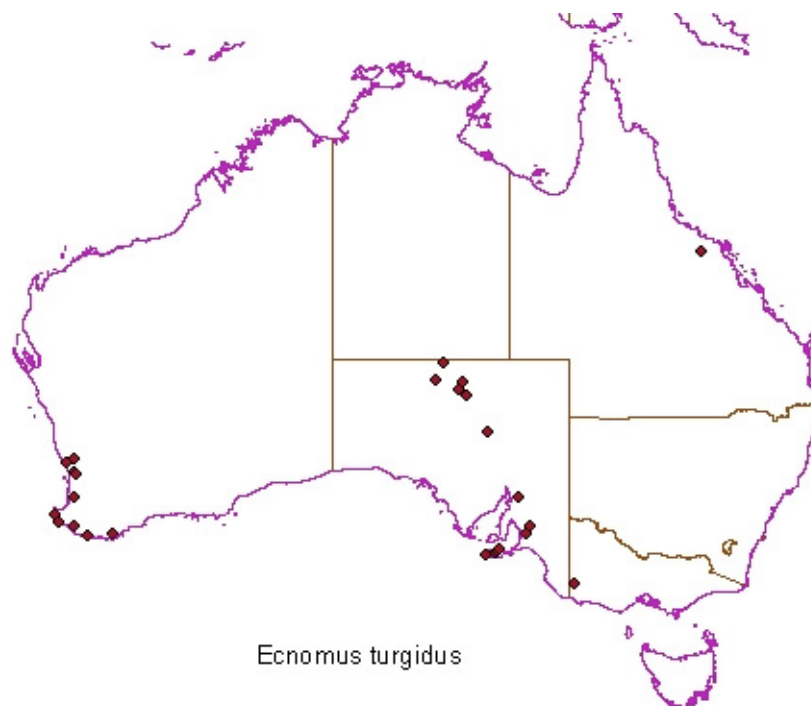
Habitat profile for *Ecnomus turgidus* Neboiss

Ecnomus turgidus Neboiss was recorded from 30 southern Western Australian, South Australian, Victorian and Queensland localities in this study. This is a very widespread species in lotic and occasionally lentic waters. Adults have previously been recorded from southern Western Australia, South Australia, Victoria, New South Wales, eastern Queensland and in southern Northern Territory (Cartwright 1990) and more recently from Tasmania (Neboiss 2002).

In this study, *E. turgidus* was generally recorded in edge habitat samples from low altitude streams between 15-325 m (Chart a), between 13-1220 km from the source (Chart b), with predominantly finer substrates of silt/clay and sand with low (<5%) detritus cover (Chart c). Streams were medium to large between 10-41m wide (Chart d), with depths of 0.2 and 0.33 m (Chart e), with moderate to high alkalinity between 110-560 mg/L (Chart f) and moderate to high conductivity between 280-5990 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: relatively moderate to very high recorded water temperatures (range from 15 to 33.6 °C), slightly alkaline pH between 7.3-8.8, and turbidity <39 NTU.

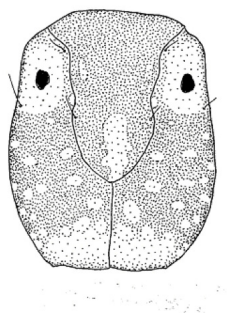
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Ecnomus turgidus* in Australia.

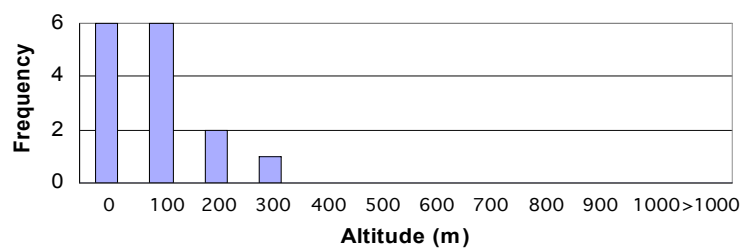


Ecnomus turgidus, head of larva and typical habitat

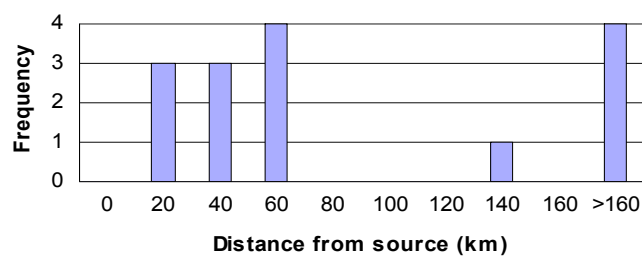


Charts for *Ecnomus turgidus*

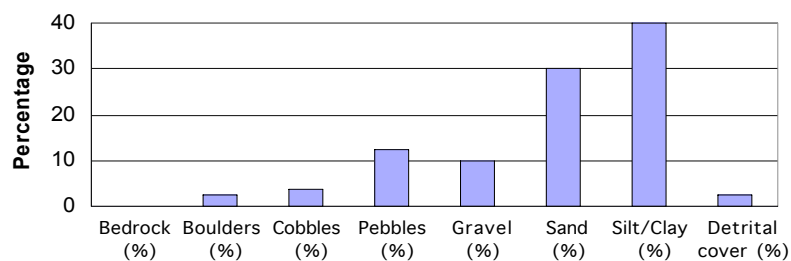
a) Altitude



b) Distance from source

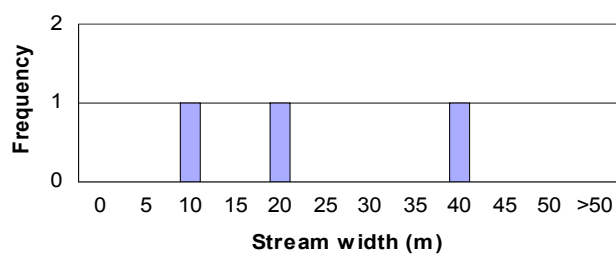


c) Substrate Particle Size

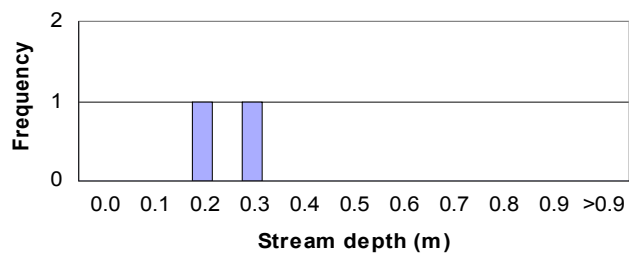




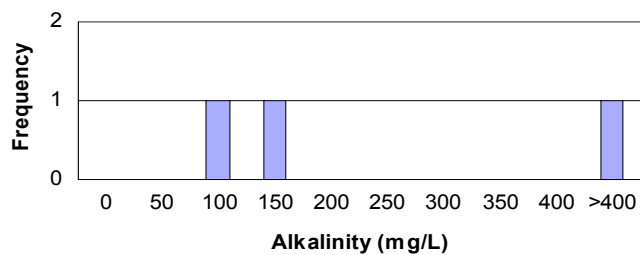
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

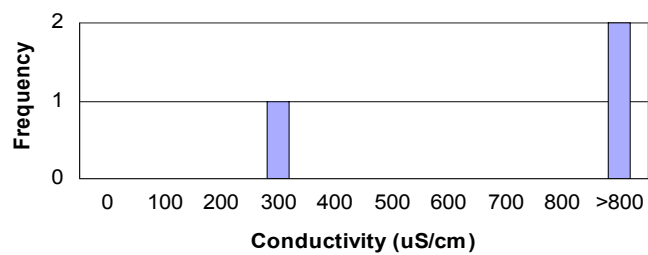




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *E. turgidus* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	102	75	15-325	15
Distance from source (km)	160	50	13-1220	15
Stream width (m)	23.6	20	10-41	3
Stream depth (m)	0.26	0.26	0.2-0.33	2
Water temperature (°C)	24	23.4	15-33.6	3
Conductivity (µS/cm)	3124	3100	283-5990	3
pH	8.0	7.9	7.3-8.8	3
Alkalinity (mg/L)	266	128	110-560	3
Turbidity (NTU)	14.2	3	1-38.5	3
Total N (mg/L)	1.35	1.35	1.35	2
NO ₃ -N (mg/L)	0.004	0.004	0.004	2
Total P (mg/L)	0.048	0.017	0.005-0.12	3
P SR (mg/L)	0.015	0.015	0.015	1

References

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

Neboiss A (2002) New genera and species, and new records of Tasmanian Trichoptera (Insecta). *Papers and Proceedings of the Royal Society of Tasmania* **136**, 43-82.