



Family Baetidae

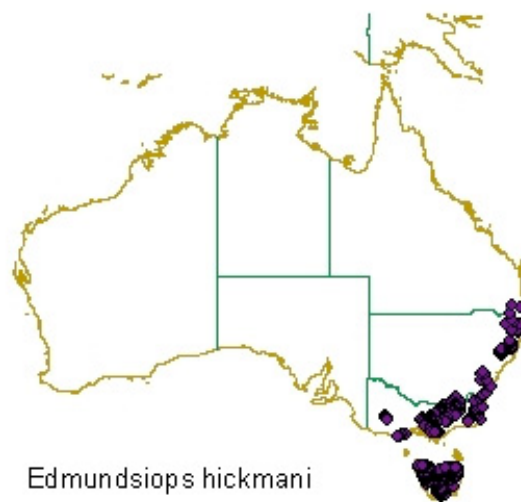
Habitat Profile for *Edmundsiops hickmani* Suter

Edmundsiops hickmani Suter was widespread on the east coast drainage being recorded from 752 samples in Tasmania, Victoria, New South Wales and southern Queensland. This distribution is consistent with that recorded by Suter (1997; 2000) although there were many more locations in this study.

Edmundsiops hickmani was generally recorded in combined, riffle and kick habitat samples from streams below 600 m altitude (Chart a), < 60 km from the source (Chart b), with predominantly cobbles and pebbles substrate with <5% detritus cover (Chart c). The streams were between 1-80 m wide (Chart d) and less than 1m deep (Chart e), with low alkalinity between 4-220 mg/L (Chart f) and low conductivity generally below 200 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 4.5-23.5 °C, pH circum-neutral, mostly in range of 5.6-8.5, and low turbidity 1-286 NTU.

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



Distribution of *Edmundsiops hickmani* in Australia.

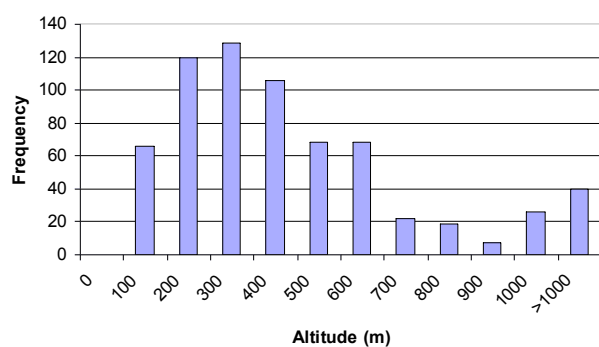


Edmundsiops hickmani, nymph and typical habitat

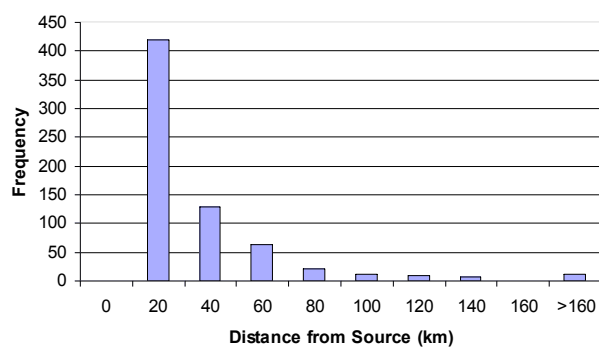


Charts for *Edmundsiops hickmani*

a) Altitude

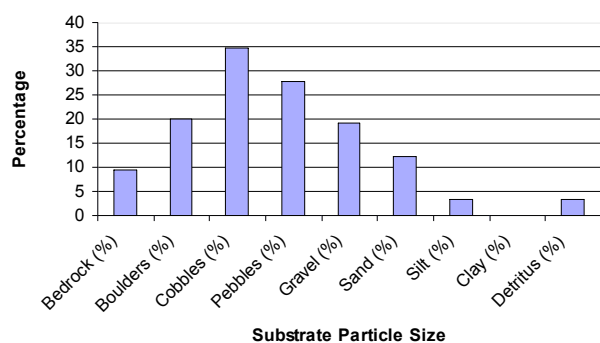


b) Distance from source

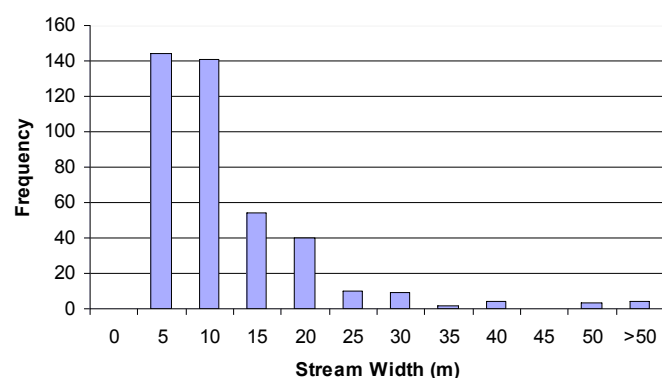




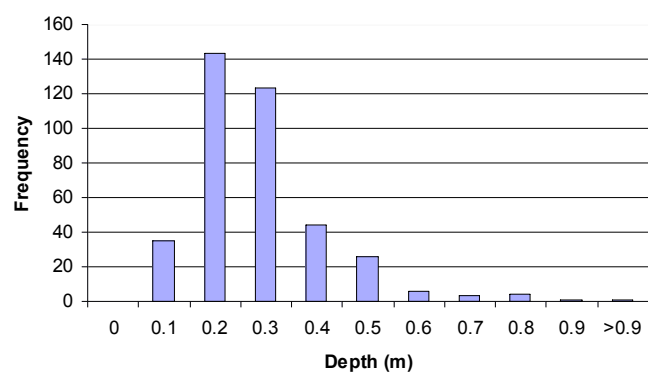
c) Substrate Particle Size



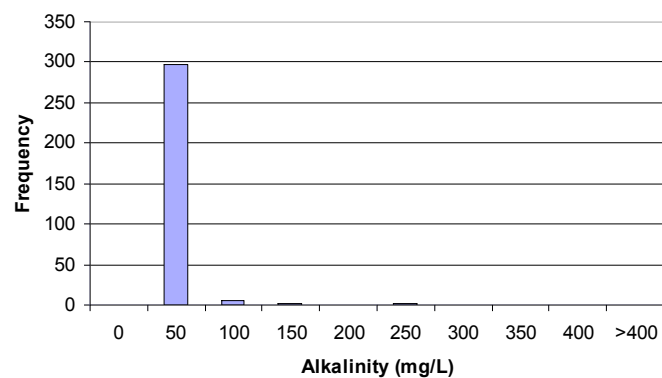
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

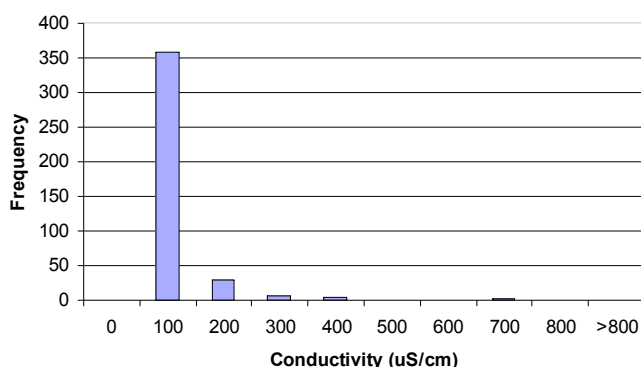


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *E. hickmani* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	404	370	5-1740	671
Distance from source (km)	28	15	0.7-420	671
Stream width (m)	10.3	8	1-80	411
Stream Depth (m)	0.25	0.23	0.05-0.93	386
Water temperature (°C)	13.4	13.3	4.5-23.5	307
Conductivity (μS/cm)	58.9	40.7	0-670	402
pH	7.3	7.3	5.6-8.5	307
Turbidity (NTU)	4.1	2.0	1-286	284
NO ₃ -N (mg/L)	0.083	0.024	0.003-0.86	284
Total N (mg/L)				
Total P (mg/L)	0.020	0.014	0.03-0.140	284
Alkalinity (mg/L)	18.6	15.0	4-220	307

References

Suter PJ (1997) 'Preliminary Guide to the identification of nymphs of Australian Baetid Mayflies (Insecta : Ephemeroptera) found in flowing waters. Identification Guide No. 14.' (Co-operative Research Centre for Freshwater Ecology: Albury)

Suter PJ (2000) *Edmundsiops hickmani* sp. nov., *Offadens frater* (Tillyard) nov. comb. and description of the nymph of *Cloeon tasmaniae* Tillyard (Ephemeroptera: Baetidae) from Tasmania. *Papers and Proceedings of the Royal Society of Tasmania* **134**, 63-74.