



## Family Baetidae

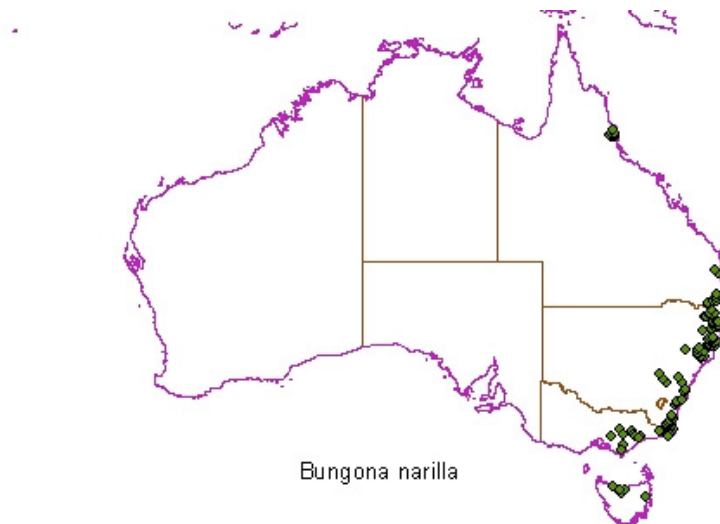
### Habitat Profile for *Bungona narilla* Harker

*Bungona narilla* Harker was widespread on the east coast drainage being recorded from 205 samples in Tasmania, Victoria, New South Wales and to northern Queensland. This distribution is consistent with that recorded by Suter and Pearson (2001) and Suter (2002) although there were many more locations in this study. (Suter and Pearson 2001) recorded *B. narilla* in “streams with low gradient, low turbidity, mainly in foothill and lowland reaches” (p.25). They also noted that *B. narilla* was found in shallow waters (<20cm) at the edge of cobble streams where the water velocity was very low.

*Bungona narilla* was generally recorded in sweep, pool rocks and edge habitat samples from streams generally below 400 m altitude (Chart a), < 60 km from the source (Chart b), with predominantly cobbles, bedrock and boulder substrate with >10% detritus cover (Chart c). The streams were between 1-95 m wide (Chart d) and less than 0.6m deep (Chart e), with low alkalinity between 6-175 mg/L (Chart f) and low to moderate conductivity between 1-670 $\mu$ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 8.3-27.5 °C, pH acidic, in the range of 5.2-8.7, and low turbidity 0.2-70.3 NTU.

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



Distribution of *Bungona narilla* in Australia.

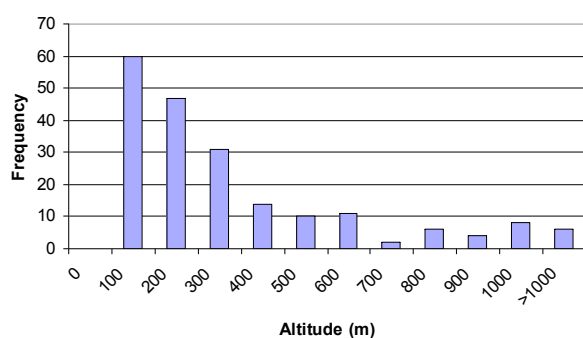


*Bungona narilla*, nymph and typical habitat

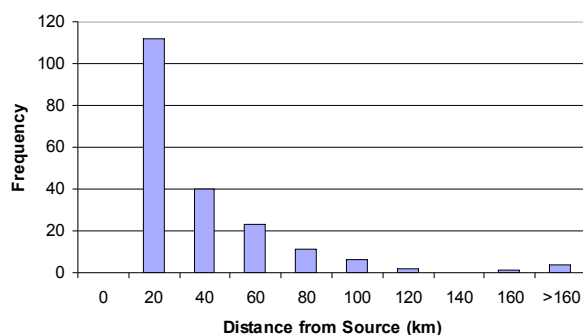


Charts for *Bungona narilla*

a) Altitude

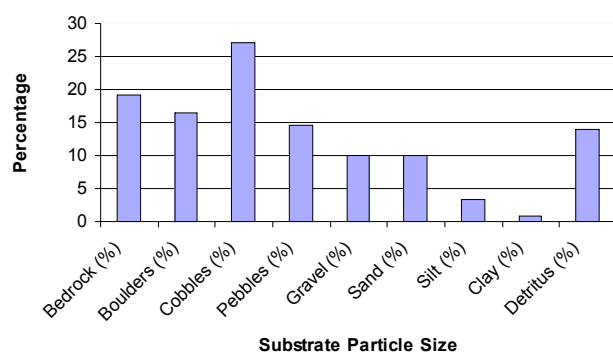


b) Distance from source

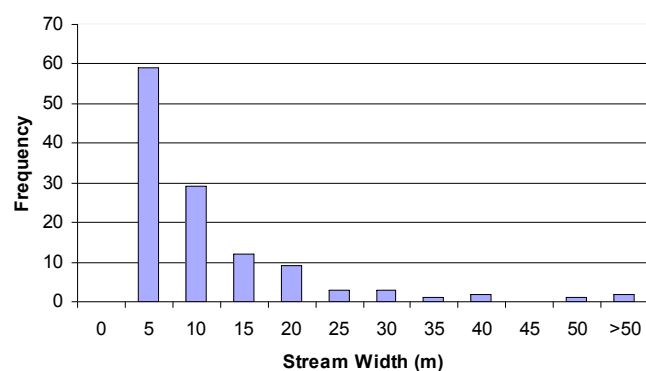




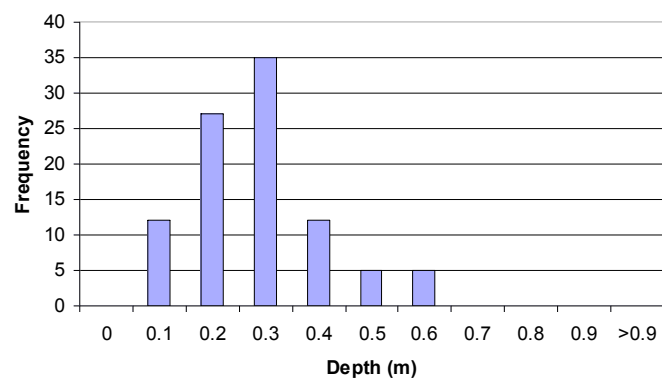
c) Substrate Particle Size



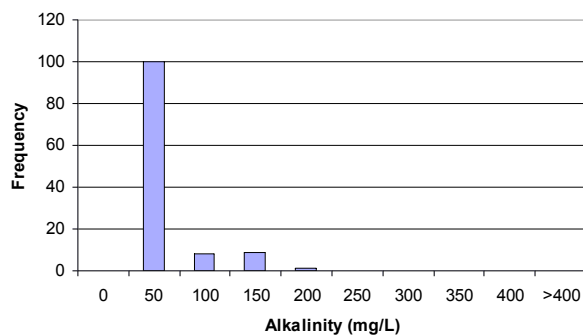
d) Stream Width



e) Depth

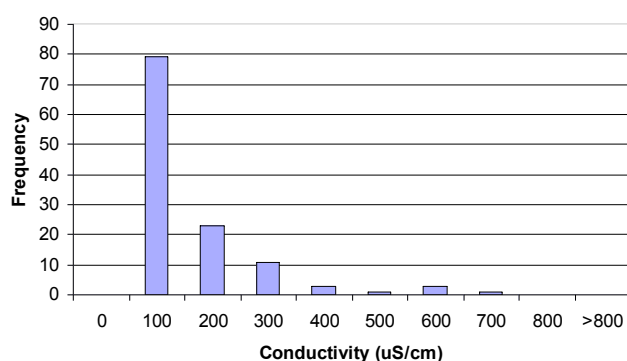


f) Alkalinity





g) Conductivity



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

	Mean	Median	Range	N
Altitude (m)	279	180	5-1200	199
Distance from source (km)	29	15.7	1.2-335	199
Stream width (m)	10.5	6	1-95	121
Stream Depth (m)	0.27	0.25	0.01-0.60	96
Water temperature (°C)	17.2	16.5	8.3-27.5	118
Conductivity (µS/cm)	118	83	1-670	121
pH	7.3	7.4	5.2-8.7	118
Turbidity (NTU)	4.7	2.7	0.2-70	93
NO <sub>3</sub> -N (mg/L)	0.033	0.010	0.003-0.430	89
Total N (mg/L)	0.321	0.220	0.160-0.896	33
Total P (mg/L)	0.019	0.010	0.003-0.350	110
Alkalinity (mg/L)	32.8	20.5	6-175	118

References

Suter PJ, Conrick D, Cockayne B, Choy S (2002) 'Habitat profiles of Queensland mayflies, families Baetidae, Caenidae and Prosopistomatidae.' (Cooperative Research Centre for Freshwater Ecology: Albury)

Suter PJ, Pearson MJ (2001) Redescription of *Bungona* Harker with new synonyms in the Australian Baetidae (Insecta: Ephemeroptera). *Memoirs of Museum Victoria* **58**, 247-254.