



Family Leptophlebiidae

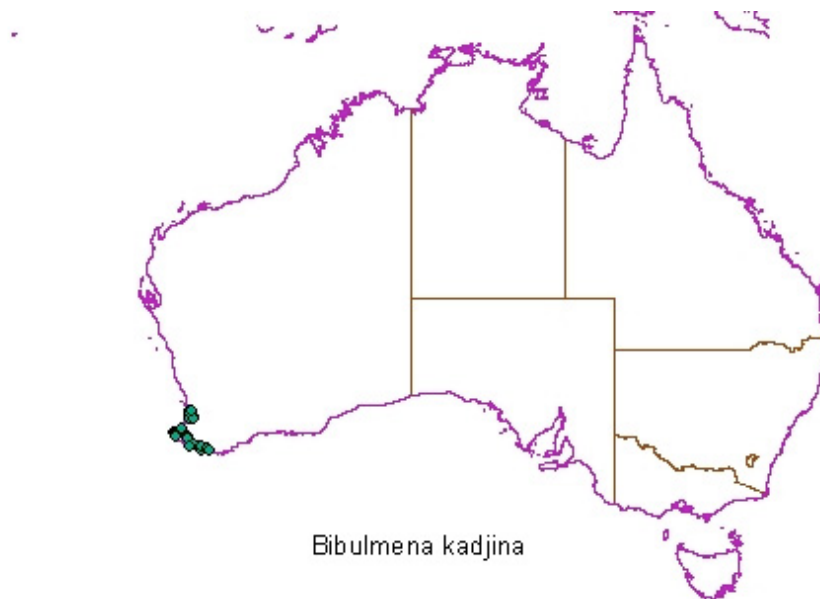
Habitat Profile for *Bibulmena kadjina* Dean

Bibulmena kadjina Dean was described from material from Western Australia (Dean 1987). In this study, *B. kadjina* was recorded from 25 locations from south-western Western Australia.

Bibulmena kadjina was recorded in channel habitat samples from lowland streams generally <300 m altitude (Chart a), between 1.2-179 km from the source (Chart b), with predominantly sandy substrate with detritus > 25% cover (Chart c), small to medium stream width between 1-60 m (Chart d), low alkalinity between 1-70 mg/L (Chart e) and medium to high conductivity 141-4540 $\mu\text{S}/\text{cm}$ (Chart f).

The following generalities can be made about the other parameters listed in the Table: water temperature range 10.1-16.2 °C, pH generally acidic, in range of 4.5-7.8, and very low turbidity (<6 NTU).

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



Distribution of *Bibulmena kadjina* in Australia

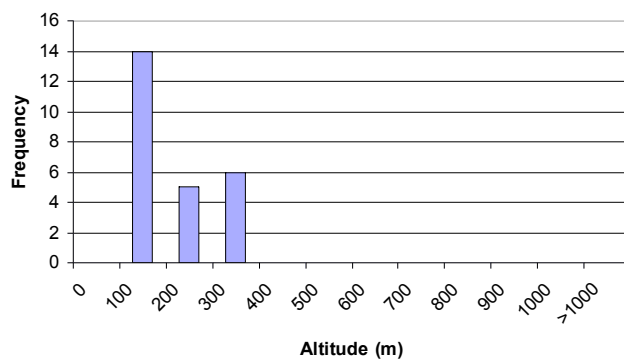


Bibulmena kadjina, nymph and typical habitat

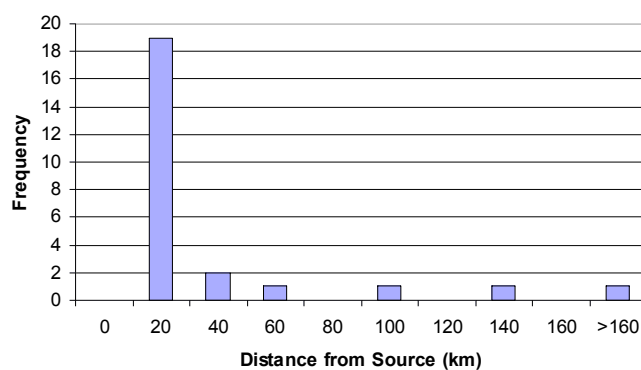


Charts for *Bibulmena kadjina*

a) Altitude

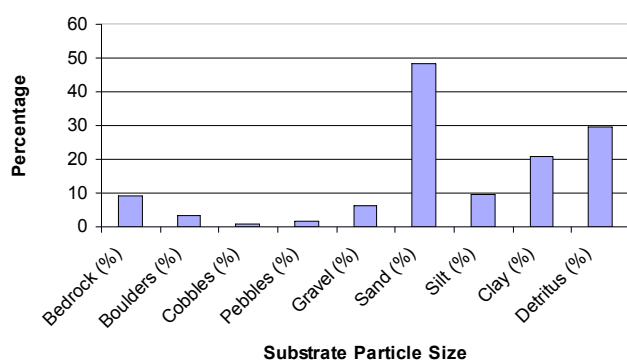


b) Distance from source

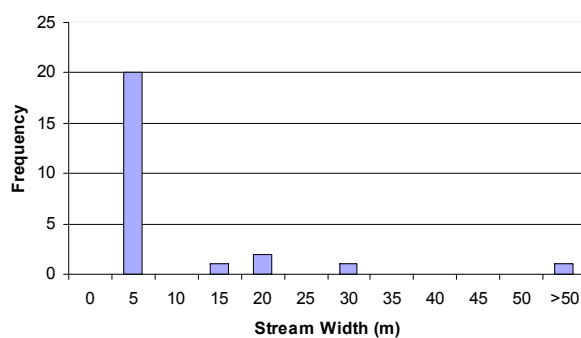




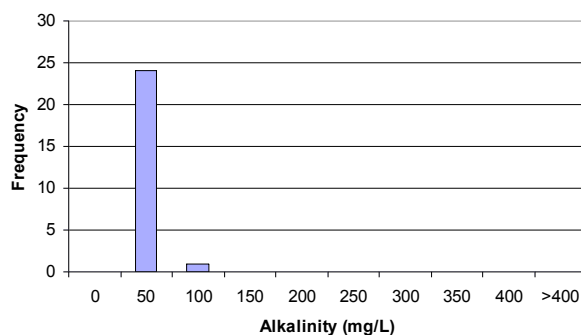
c) Substrate Particle Size



d) Stream Width



e) Alkalinity



f) Conductivity

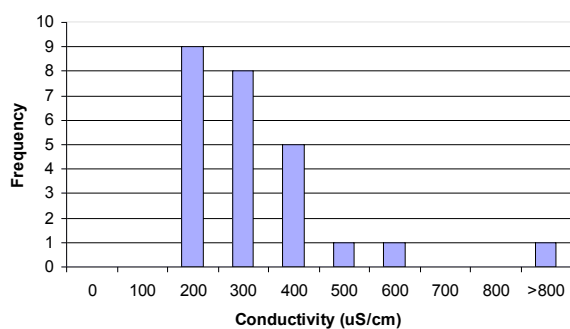




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Bibulmena kadjina* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	120	88	16-245	25
Distance from source (km)	25.2	7	1.2-179	25
Stream width (m)	7.6	2.5	1-60	25
Stream depth (m)				
Water temperature (°C)	12.8	12.8	10.1-16.2	25
Conductivity (µS/cm)	430	232	141-4540	25
pH	6.3	6.4	4.5-7.8	25
Turbidity (NTU)	2.4	2.0	0-6	25
NO ₃ -N (mg/L)	0.133	0.040	0.020-0.470	25
Total N (mg/L)	0.528	0.450	0.080-1.700	25
Total P (mg/L)	0.038	0.005	0.005-0.260	25
Alkalinity (mg/L)	12.9	10.0	1-70	25

References

Dean JC (1987) Two new genera of Letophlebiidae (Insecta: Ephemeroptera) from south-western Australia. *Memoirs of the Museum of Victoria* **48**, 91-100.