



HYDROPSYCHIDAE

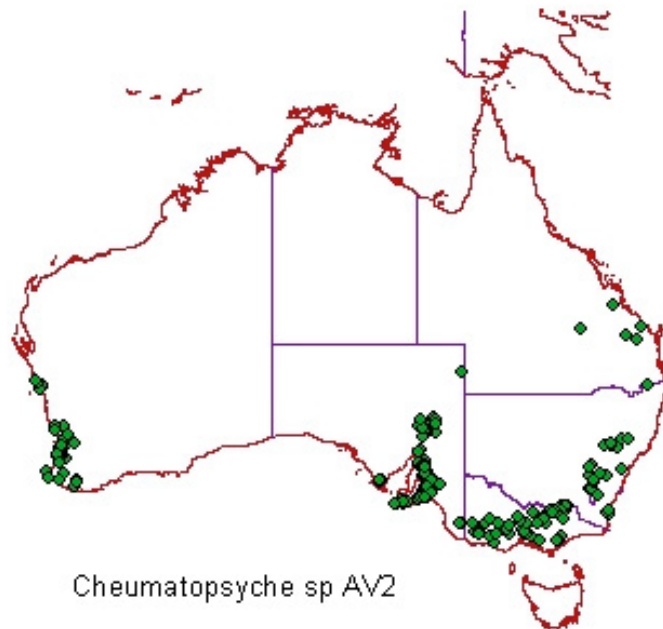
Habitat profile for *Cheumatopsyche* sp. AV2

Cheumatopsyche sp. AV2 was recorded from southern Australia from over 480 South Australian, Victorian, New South Wales, ACT, Queensland and southern Western Australian localities in this study. The larva was described in a previous study by Dean and Bunn (1989) who stated that “the larva had an extensive distribution in medium to fast currents in larger forest rivers. This species is quite tolerant of poor water quality, as it also occurs in turbid, nutrient rich streams and rivers in agricultural land.”

In this study *Cheumatopsyche* sp. AV2 was generally recorded in kick, riffle and channel habitat samples from streams <440 m altitude (Chart a), <141 km from the source (Chart b), with predominantly sandy substrate and with <40% detritus cover (Chart c). The streams were small to medium in width <20 m (Chart d), mean water depth between 0.05-0.35 m (Chart e), low to high alkalinity between 10-320 mg/L (Chart f) and medium to very high conductivity mainly in range from 180-2800 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 10-26 °C, pH mostly in range 5.8-8.6 and low turbidity (<33 NTU).

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



Distribution of *Cheumatopsyche* sp AV2 in Australia.

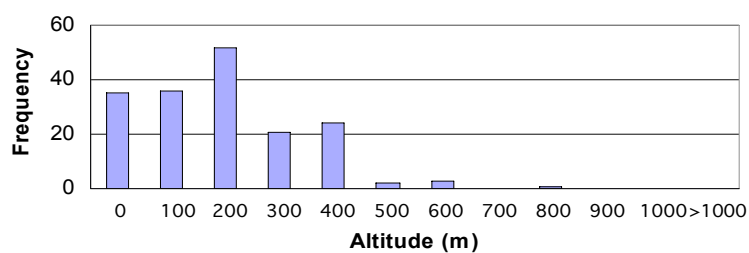


Typical habitat of *Cheumatopsyche* sp AV2

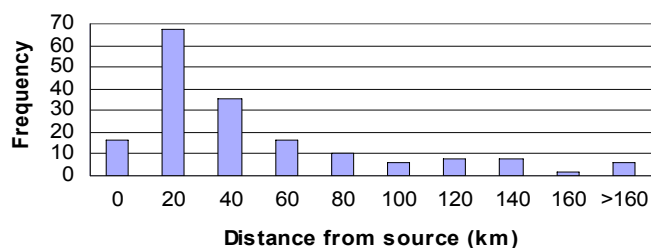


Charts for *Cheumatopsyche* sp AV2

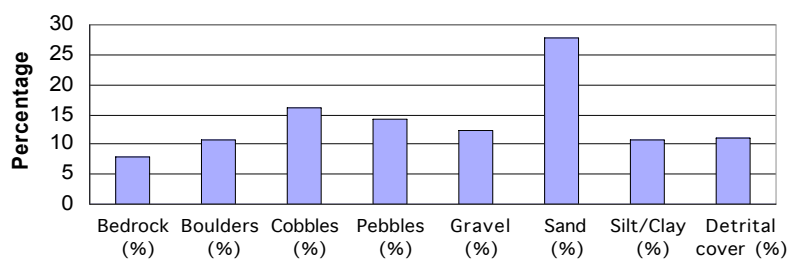
a) Altitude



b) Distance from source

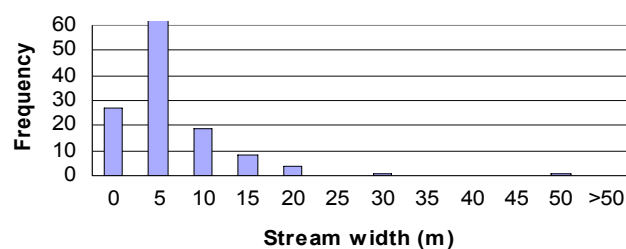


c) Substrate Particle Size

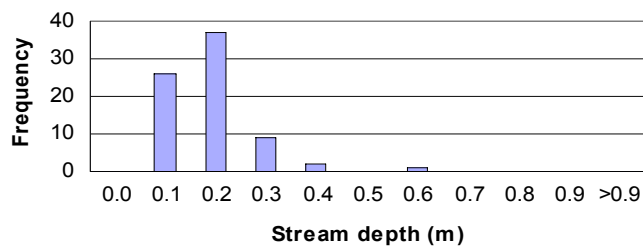




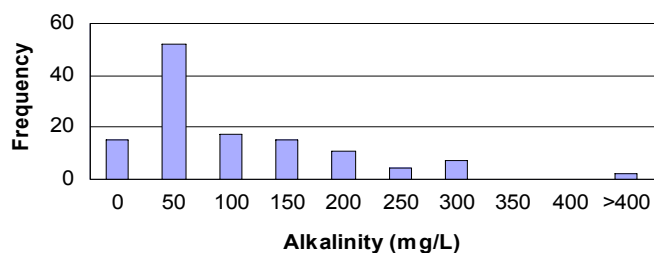
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

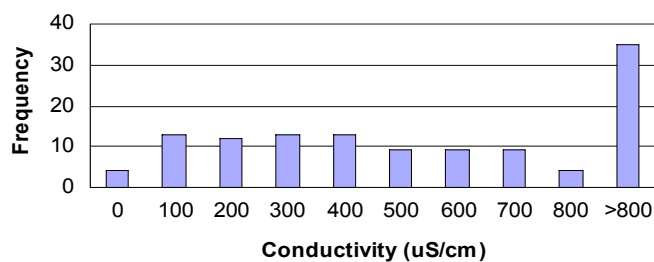




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Cheumatopsyche* sp. AV2 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	189	167.5	7-840	174
Distance from source (km)	49	33	3-229	174
Stream width (m)	6.2	4.0	1-50	123
Stream depth (m)	0.18	0.18	0.05-0.62	75
Water temperature (°C)	17.5	17.0	9.5-28.9	123
Conductivity (µS/cm)	1124	508	42-9170	121
pH	7.7	7.8	4.3-9.1	122
Alkalinity (mg/L)	105	68	1-660	123
Turbidity (NTU)	9.3	5.0	0-90	121
Total N (mg/L)	0.84	0.68	0-2.6	66
NO ₃ -N (mg/L)	0.21	0.11	0.0-1.4	113
Total P (mg/L)	0.24	0.03	0.005-4.9	121
P SR (mg/L)	0.03	0.01	0.005-0.30	41

References

Dean JC, Bunn SE (1989) Larval descriptions of the Hydrobiosidae, Philopotamidae, Hydropsychidae, and some Ecnomidae (Trichoptera) from south-western Australia, with notes on biology. *Australian Journal of Marine and Freshwater Research* **40**, 631-643.