



FAMILY HYDROPSYCHIDAE

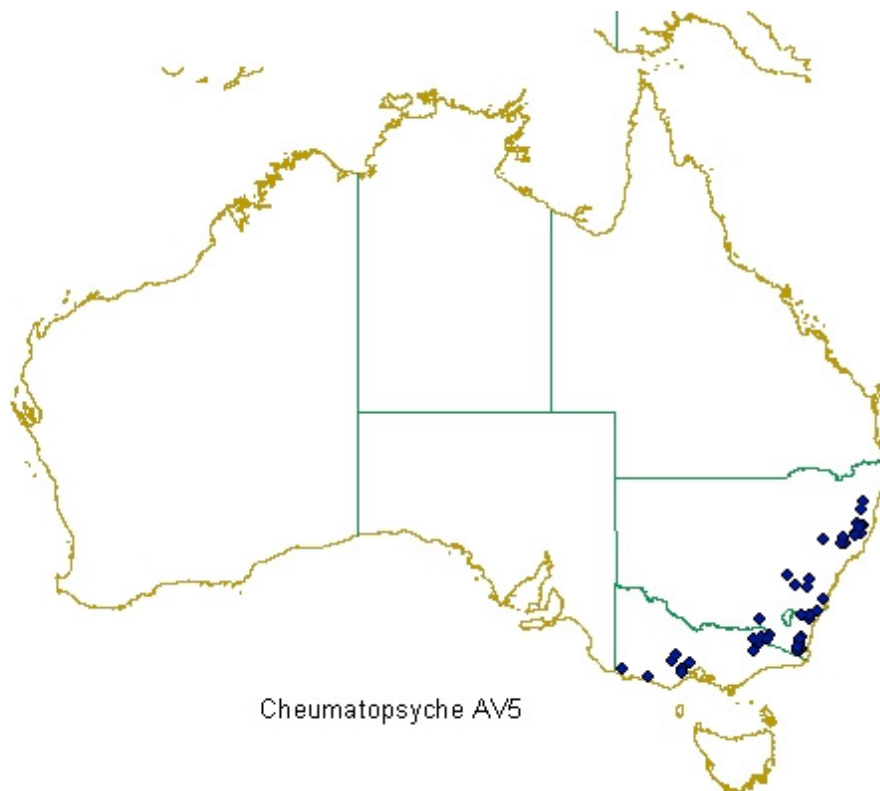
Habitat profile for *Cheumatopsyche* sp. AV5

Cheumatopsyche sp. AV5 was recorded from 115 Victorian and New South Wales localities in this study. Larvae have previously been recorded from eastern Queensland as well (Dean 1999).

In this study, *Cheumatopsyche* sp. AV5 was recorded mainly in riffle habitat samples from streams from a wide range of altitudes between 20-1010 m (Chart a), 5-85 km from the source (Chart b), mainly larger substrate types with cobbles and boulders substrate with low (<15%) detritus cover (Chart c). The stream were generally <15 m wide (Chart d), with water depth <0.5 m (Chart e), low to moderate alkalinity between 10-170 mg/L (Chart f) and moderate to high conductivity ranging from 24-1200 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature of 10-20.5 °C, slightly alkaline pH in range 7-8.3, and very low turbidity (<6.3 NTU).

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

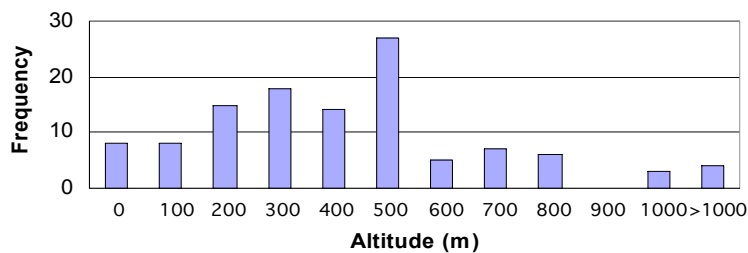


Distribution of *Cheumatopsyche* sp AV5 in Australia.

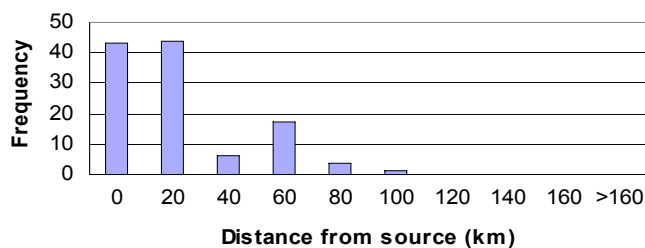


Charts for *Cheumatopsyche* sp AV5

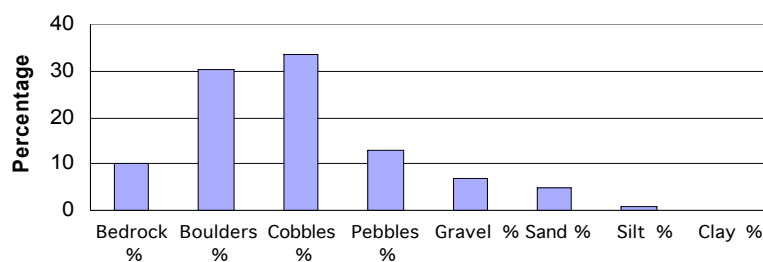
a) Altitude



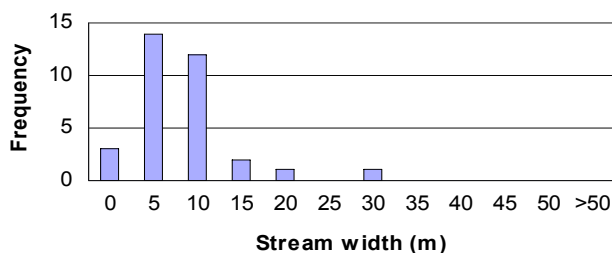
b) Distance from source



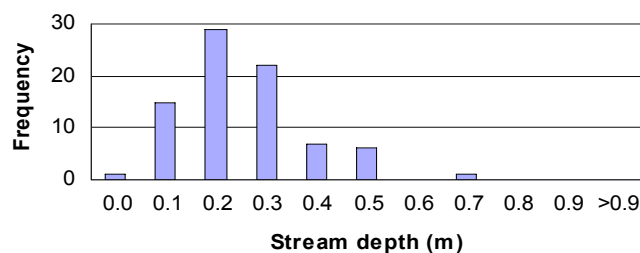
c) Substrate Particle Size



d) Stream Width

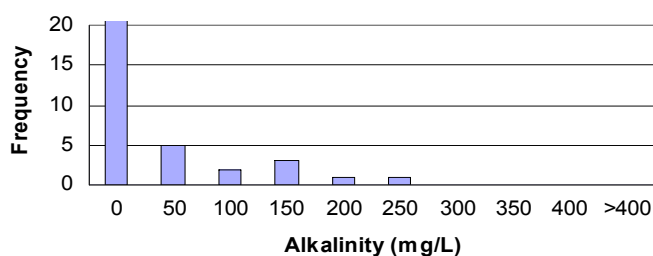


e) Depth





f) Alkalinity



g) Conductivity

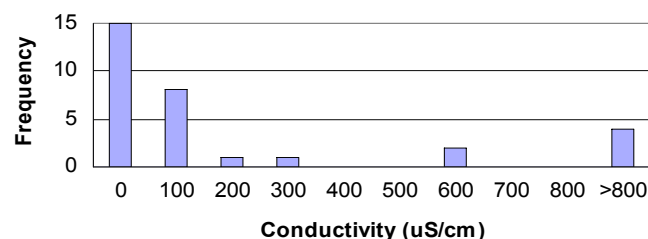


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Cheumatopsyche* sp. AV5 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	427	440	20-1100	115
Distance from source (km)	23	12	2.8-90	115
Stream width (m)	8.1	7	1-30	33
Stream depth (m)	0.26	0.23	0.03-0.65	81
Water temperature (°C)	14.0	13.9	5.9-21.8	33
Conductivity (µS/cm)	305	54	3.4-2304	31
pH	7.5	7.5	5.95-8.35	33
Alkalinity (mg/L)	51.5	21	10-350	33
Turbidity (NTU)	2.8	2.0	0-16.2	32
Total N (mg/L)				
NO ₃ -N (mg/L)	0.095	0.006	0.003-0.82	14
Total P (mg/L)	0.048	0.02	0.007-0.4	14

References

Dean JC (1999) 'Preliminary keys for the identification of the Australian Trichoptera larvae of the family Hydropsychidae.' (Cooperative Research Centre for Freshwater Ecology: Albury)