



FAMILY HYDROPSYCHIDAE

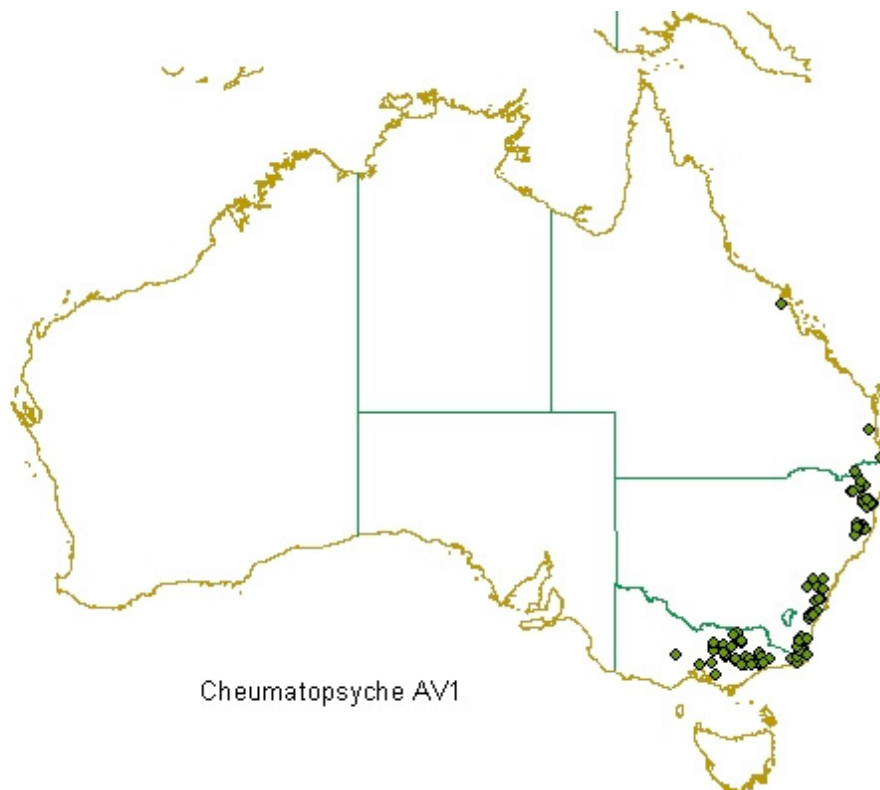
Habitat profile for *Cheumatopsyche* sp. AV1

Cheumatopsyche sp. AV1 was recorded from 182 Victorian, New South Wales and Queensland localities in this study.

In this study *Cheumatopsyche* sp. AV1 was recorded mainly in riffle and kick habitat samples from streams between 20-380 m altitude (Chart a), <110 km from the source (Chart b), mainly larger sized substrates of cobbles, boulders, bedrock and pebbles with low (<20%) detritus cover (Chart c). The streams were small to medium with width <21 m (Chart d), shallow to medium water depth between 0.1-0.6 m (Chart e), low to medium alkalinity mainly between 10-65 mg/L (Chart f) and low to moderate conductivity ranging from 20-220 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature of 10.5-24 °C, circum-neutral pH in range 6.3-8.3, and very low turbidity (<12 NTU).

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



Distribution of *Cheumatopsyche* sp AV1 in Australia.

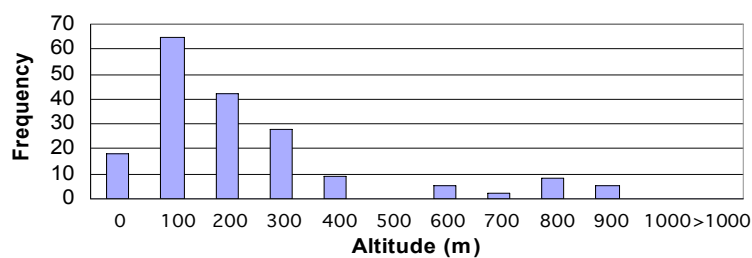


Typical habitat of *Cheumatopsyche* sp AV1

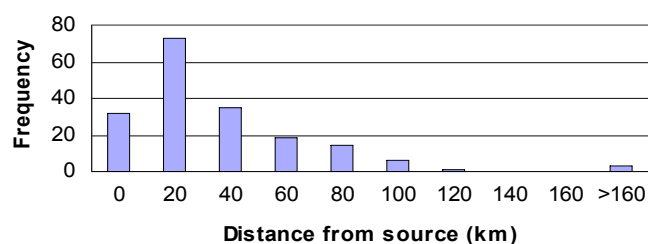


Charts for *Cheumatopsyche* sp AV1

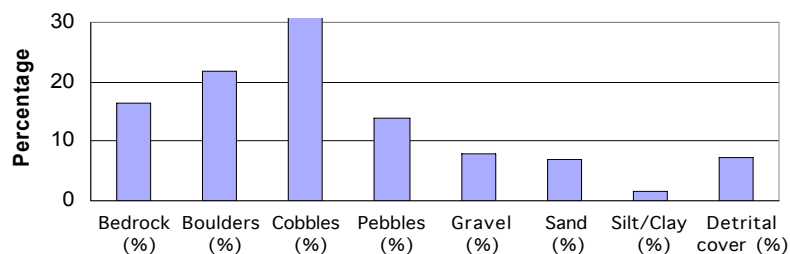
a) Altitude



b) Distance from source

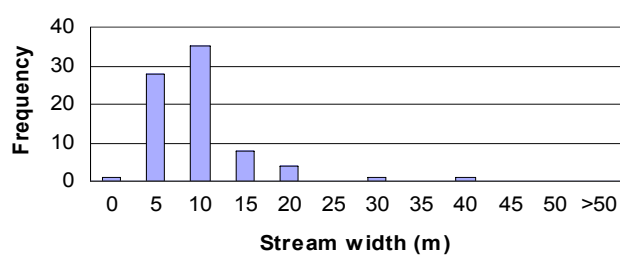


c) Substrate Particle Size

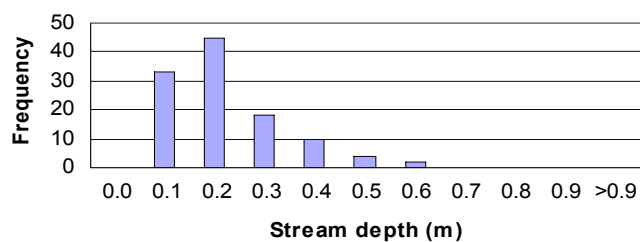




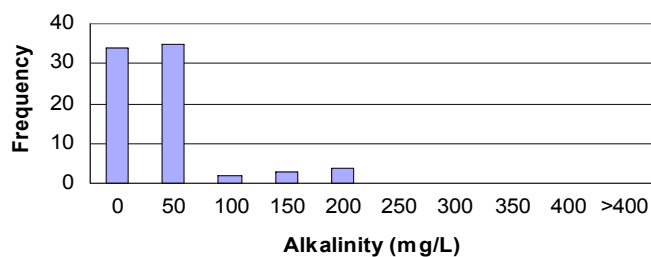
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

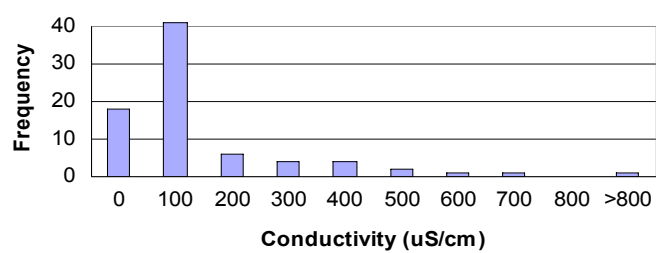




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Cheumatopsyche* sp. AV1 (N= number of records).

| | Mean | Median | Range | N |
|---------------------------|-------|--------|-------------|-----|
| Altitude (m) | 229 | 180 | 0-910 | 182 |
| Distance from source (km) | 35.4 | 25.8 | 0.6-246 | 182 |
| Stream width (m) | 9.4 | 9.0 | 2-40 | 78 |
| Stream depth (m) | 0.21 | 0.20 | 0.05-0.60 | 112 |
| Water temperature (°C) | 17.3 | 16.8 | 6.2-27.8 | 78 |
| Conductivity (µS/cm) | 151 | 83 | 6-1540 | 78 |
| pH | 7.4 | 7.5 | 5.8-8.8 | 77 |
| Alkalinity (mg/L) | 41.7 | 27.5 | 6-200 | 78 |
| Turbidity (NTU) | 2.9 | 1.5 | 0-49 | 69 |
| Total N (mg/L) | 0.14 | 0.0 | 0-0.87 | 33 |
| NO ₃ -N (mg/L) | 0.07 | 0.02 | 0.003-0.82 | 66 |
| Total P (mg/L) | 0.017 | 0.014 | 0.005-0.096 | 69 |