



FAMILY HYDROPSYCHIDAE

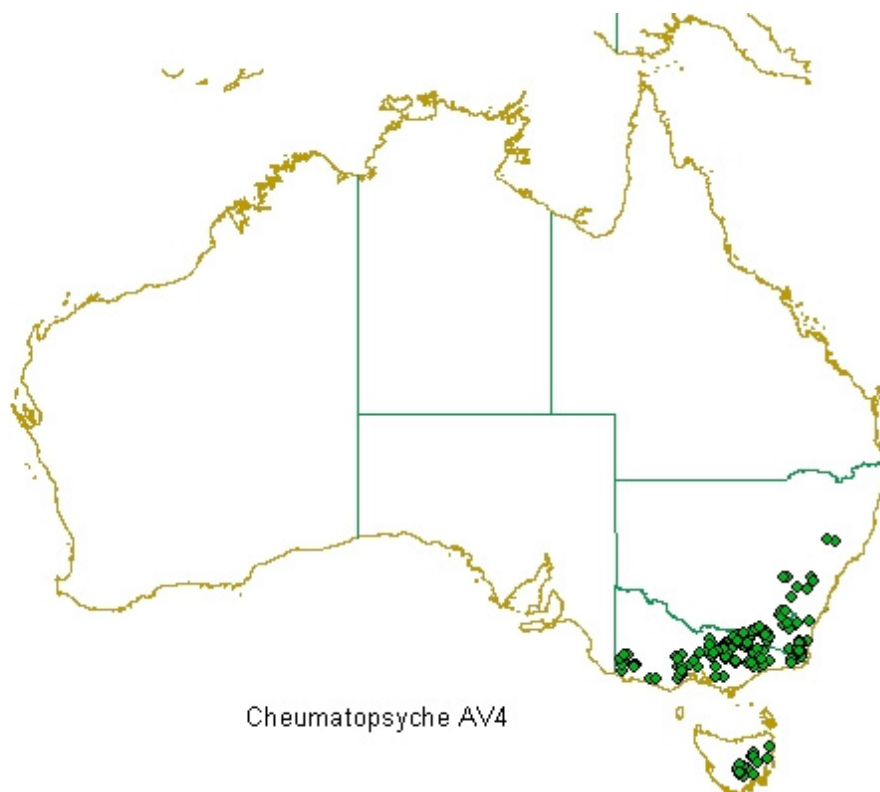
Habitat profile for *Cheumatopsyche* sp. AV4

Cheumatopsyche sp. AV4 was recorded from 355 Tasmanian, Victorian, ACT and New South Wales localities in this study.

In this study *Cheumatopsyche* sp. AV4 was recorded mainly in kick and riffle habitat samples from streams <560 m altitude (Chart a), <125 km from the source (Chart b), mainly large to midsize substrates of cobbles, pebbles and gravel with low detritus cover (Chart c). The streams were small to medium with width <31 m (Chart d), shallow to medium water depth <0.65 m (Chart e), low to moderate alkalinity between 7-200 mg/L (Chart f) and moderate to high conductivity ranging from 20-800 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature of 6-25 °C, circum-neutral pH in range 6-8.6, and very low turbidity (<24 NTU).

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



Distribution of *Cheumatopsyche* sp AV4 in Australia.

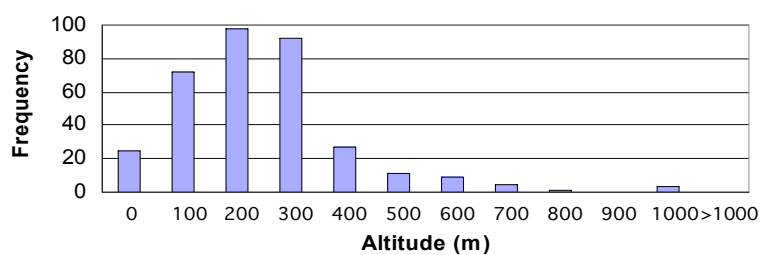


Cheumatopsyche sp AV4, larvae and typical habitats

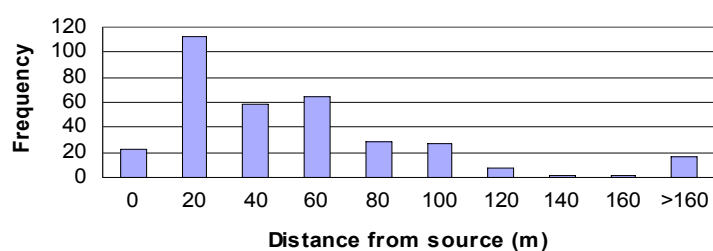


Charts for *Cheumatopsyche* sp AV4

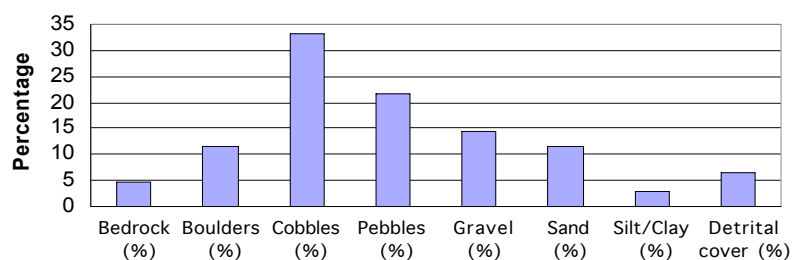
a) Altitude



b) Distance from source

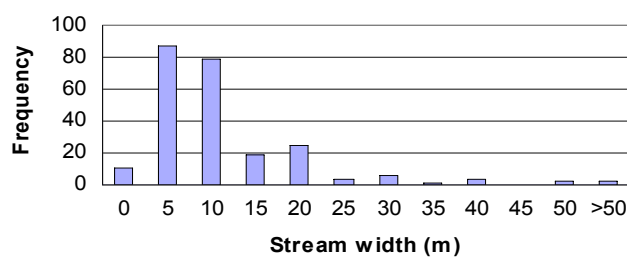


c) Substrate Particle Size

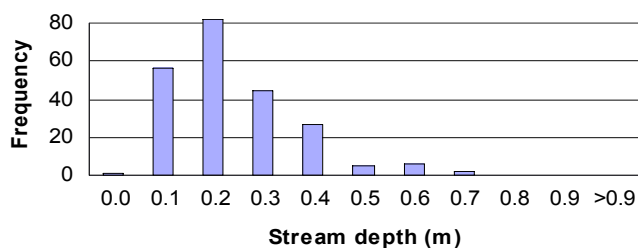




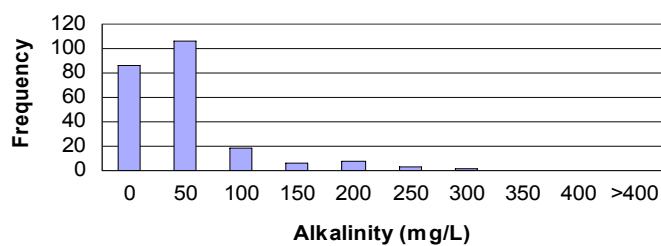
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

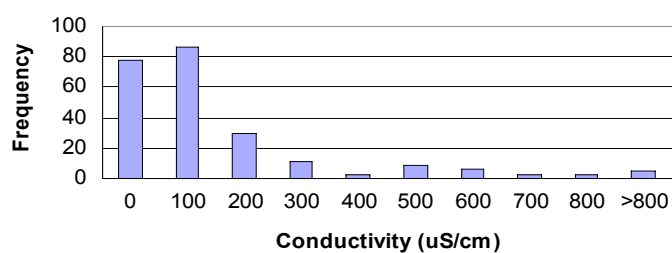




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Cheumatopsyche* sp. AV4 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	244	220	10-980	343
Distance from source (km)	55.6	39	0.7-466	343
Stream width (m)	10.9	8	1-70	239
Stream depth (m)	0.23	0.2	0.04-0.71	223
Water temperature (°C)	16.6	16.7	5.4-28.9	228
Conductivity (uS/cm)	174	76	3-2650	234
pH	7.5	7.5	5.6-8.7	227
Alkalinity (mg/L)	48	30	5-276	228
Turbidity (NTU)	4.4	2.7	0-90	218
Total N (mg/L)	0.24	0.21	0-1.15	48
NO ₃ -N (mg/L)	0.115	0.026	0.0-2.14	215
Total P (mg/L)	0.034	0.02	0.0-0.68	211
P SR (mg/L)	0.004	0.002	0.002-0.016	19