



FAMILY PHILOPOTAMIDAE

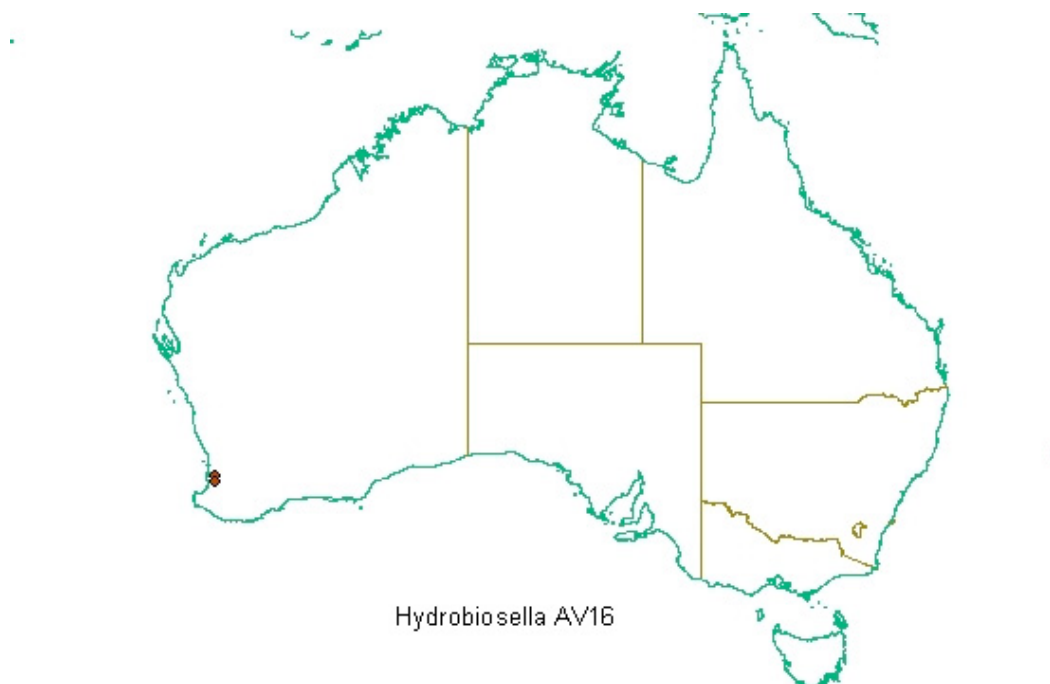
Habitat profile for *Hydrobiosella* sp. AV16

Hydrobiosella sp. AV16 was recorded from only 3 southern Western Australian localities in this study. This larva has been previously described by Dean and Bunn (1989) as *Hydrobiosella* sp. A.

In this study, *Hydrobiosella* sp. AV16 was recorded in riffle, channel and macrophyte habitat samples from streams at relatively low altitudes between 220-260 m, a short distance from the source at between 2-6 km, with predominantly smaller sized substrates of sand, gravel and silt/clay with moderate (>15%) detritus cover. The streams were small <3m wide, with low alkalinity between 7-30 mg/L and moderate conductivity between 260-280 μ S/cm.

The following generalities can be made about the other parameters listed in the Table: low recorded water temperatures between 9.1-12.6°C, slightly acidic pH in the range of 6.2-6.4, and very low turbidity (<1.5 NTU).

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



Distribution of *Hydrobiosella* sp AV16 in Australia.



Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Hydrobiosella* sp. AV16 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	233	220	220-260	3
Distance from source (km)	4.7	6	2-6	3
Stream width (m)	2.3	2.2	2.2-2.6	3
Stream depth (units)	1.3	1	1-2	3
Water temperature (°C)	11.1	11.5	9.1-12.6	3
Conductivity (µS/cm)	272	275	261-279	3
pH	6.3	6.35	6.2-6.4	3
Alkalinity (mg/L)	15	8	7-30	3
Turbidity (NTU)	3.1	4.2	0.6-4.5	3
Total N (mg/L)	0.14	0.12	0.11-0.19	3
NO ₃ -N (mg/L)	0.037	0.04	0.01-0.06	3
Total P (mg/L)	0.007	0.005	0.005-0.01	3
P SR (mg/L)	0.005	0.005	0.005	3

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.