



FAMILY PHILOPOTAMIDAE

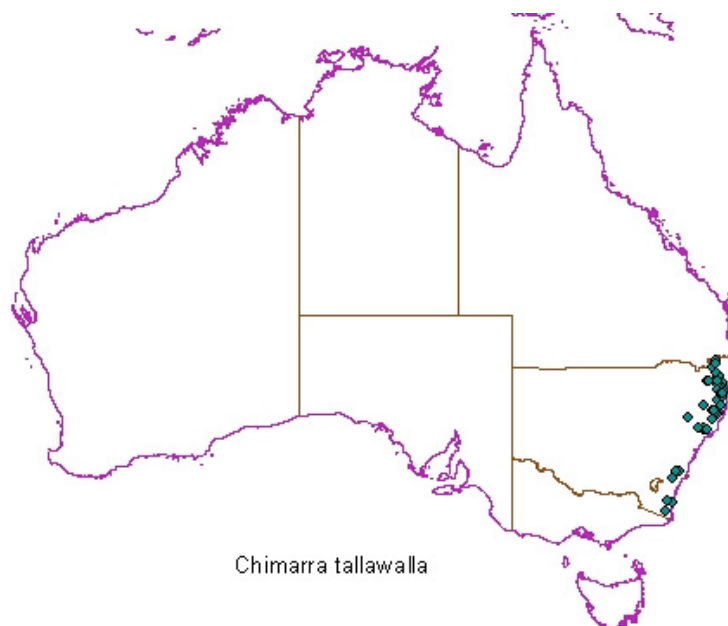
Habitat profile for *Chimarra tallawalla* Cartwright

Chimarra tallawalla Cartwright was recorded from 89 New South Wales localities in this study. This is a common species in eastern New South Wales and south east Queensland (Cartwright 2002).

Generally, *C. tallawalla* was recorded mainly in riffle habitat samples from streams at low altitudes <555 m (Chart a), between 8-223 km from the source (Chart b), with predominantly medium to larger sized substrates of cobbles, boulders and pebbles with low detritus cover <5% (Chart c). Streams were small to large between 4-30 m wide (Chart d) and generally <0.3m deep (Chart e) with low alkalinity between 10-50 mg/L (Chart f) and low to moderate conductivity between 12-300 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: moderate recorded water temperatures between 13-22 °C, circum-neutral pH mostly in the range of 6.4-8, and low turbidity (<14 NTU).

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

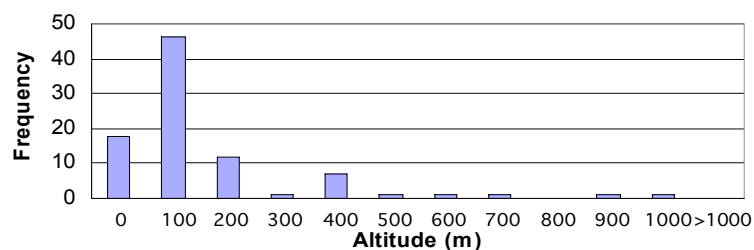


Distribution of *Chimarra tallawalla* in Australia.

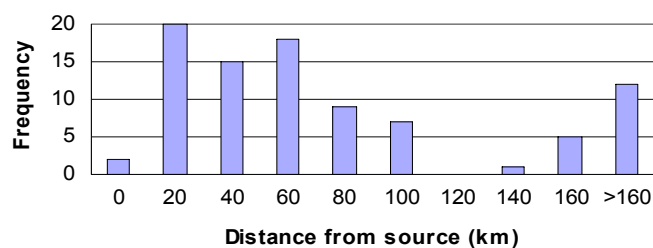


Charts for *Chimarra tallawalla*

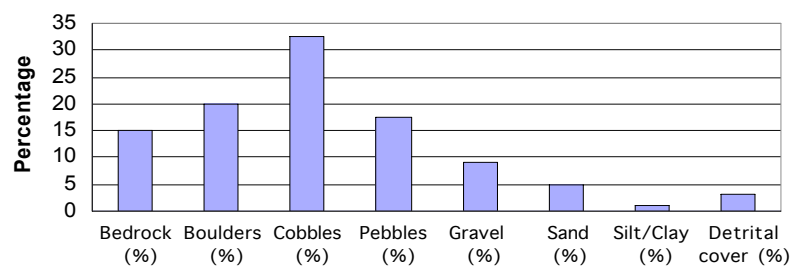
a) Altitude



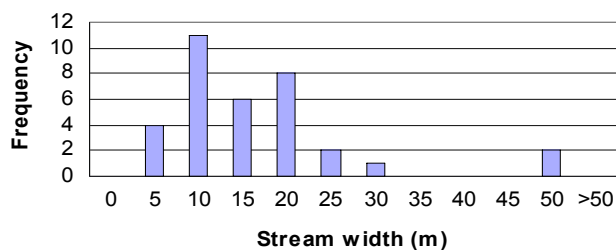
b) Distance from source



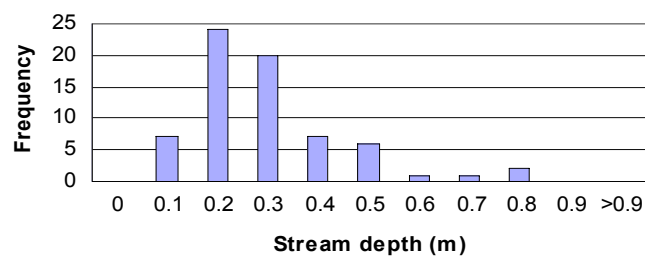
c) Substrate Particle Size



d) Stream Width

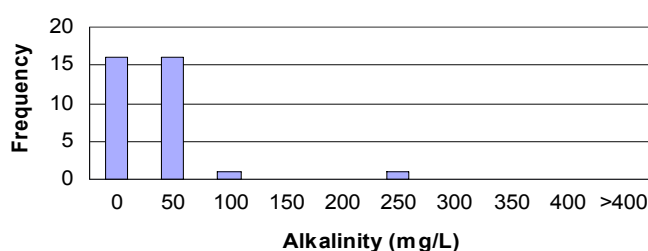


e) Depth





f) Alkalinity



g) Conductivity

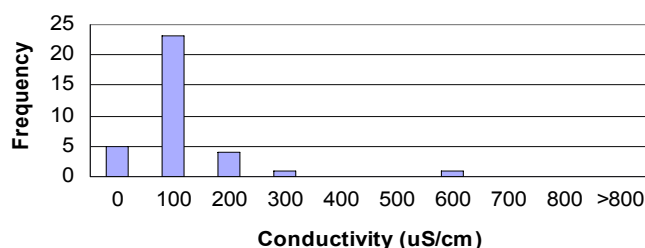


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *C. tallawalla* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	143	80	0-990	89
Distance from source (km)	80	50.5	1.5-286	89
Stream width (m)	16.5	14	4-50	34
Stream depth (m)	0.29	0.25	0.1-0.8	68
Water temperature (°C)	18.2	18.5	7.3-25.2	34
Conductivity (µS/cm)	118	107	0-600	34
pH	7.3	7.3	5.9-8.8	34
Alkalinity (mg/L)	35.5	27	10-230	34
Turbidity (NTU)	4.8	2.0	0-49	32
Total N (mg/L)	0.095	0	0-0.87	32
NO ₃ -N (mg/L)	0.028	0.02	0.005-0.08	32
Total P (mg/L)	0.020	0.011	0.01-0.096	32

References

Cartwright DI (2002) The Australian species of *Chimarra* Stephens (Trichoptera:Philopotamidae). *Memoirs of the Museum of Victoria* **59**, 393-437.