



FAMILY PHILOPOTAMIDAE

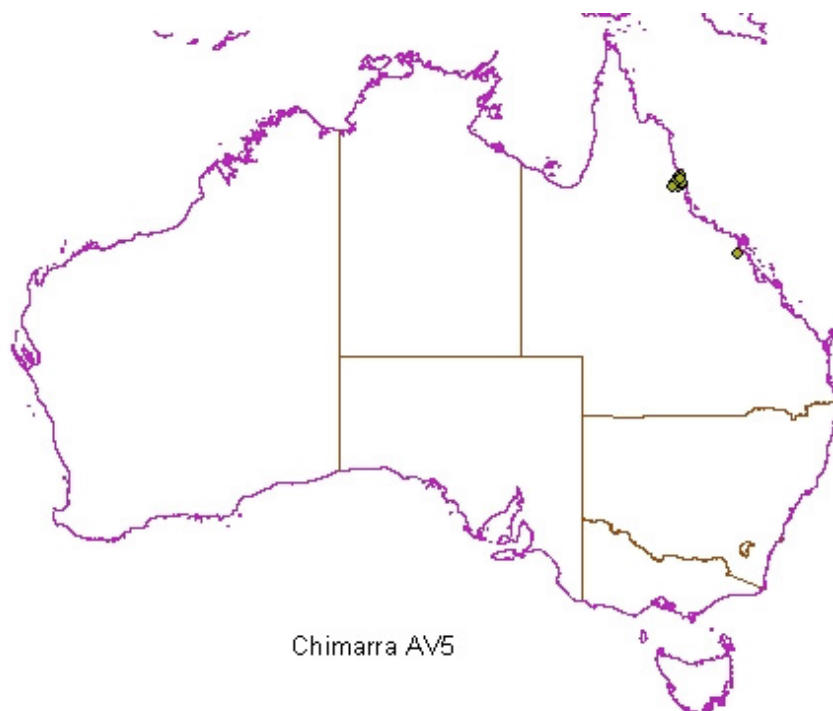
Habitat profile for *Chimarra* sp. AV5

Chimarra sp. AV5 was recorded from 15 north east Queensland localities in this study.

Generally, *Chimarra* sp. AV5 was recorded mainly in riffle habitat samples from streams in the range between 5-780 m altitude (Chart a), between 6.6-97 km from the source (Chart b), with predominantly larger sized substrates of cobbles and boulders with <5% detritus cover (Chart c). The streams were generally <30m wide (Chart d) and <0.4m deep (Chart e), with low alkalinity between 7-25.5 mg/L (Chart f) and low conductivity between 28-65 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature were relatively high between 22.7-27 °C, pH circum-neutral ranging from 6.5-8.2 and very low turbidity (<2 NTU).

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



Distribution of *Chimarra* sp AV5 in Australia.

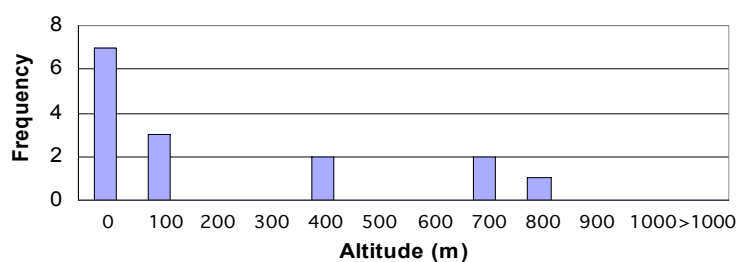


Typical habitat of *Chimarra* sp AV5

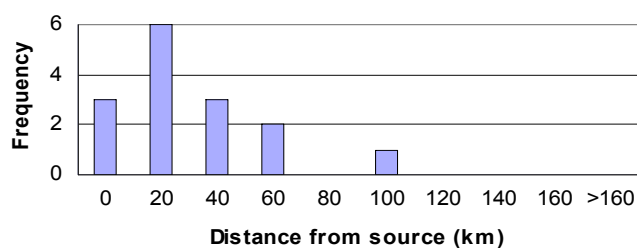


Charts for *Chimarra* sp AV5

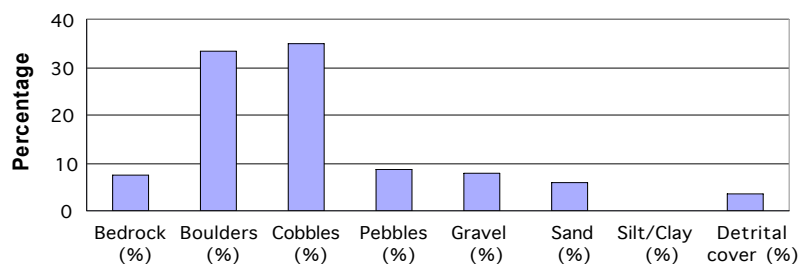
a) Altitude



b) Distance from source

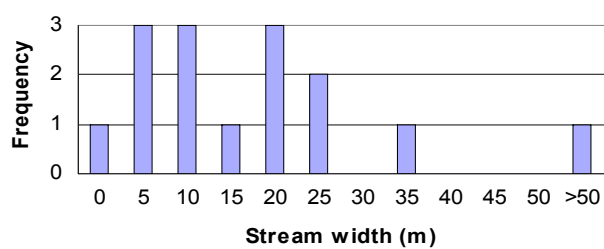


c) Substrate Particle Size

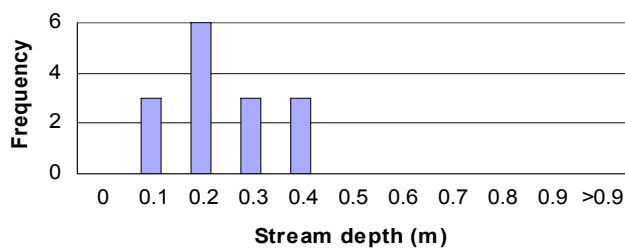




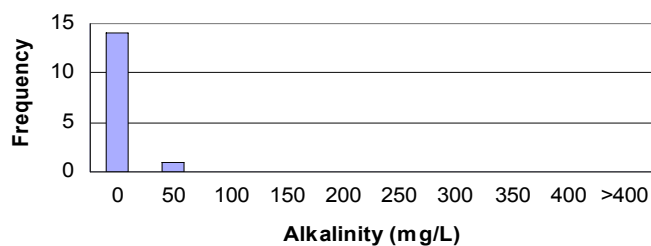
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

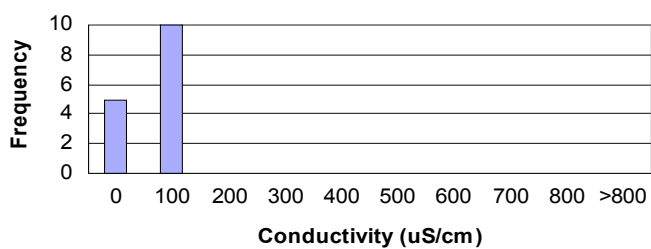




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Chimarra* AV5 (N= number of records).

| | Mean | Median | Range | N |
|---------------------------|-------|--------|-------------|----|
| Altitude (m) | 216 | 65 | 5-780 | 15 |
| Distance from source (km) | 31 | 21 | 6.6-97 | 15 |
| Stream width (m) | 20.4 | 15 | 2-95 | 15 |
| Stream depth (m) | 0.22 | 0.20 | 0.1-0.4 | 15 |
| Water temperature (°C) | 24 | 23.7 | 22.7-27 | 15 |
| Conductivity (µS/cm) | 52 | 53 | 28-65 | 15 |
| pH | 7.3 | 7.2 | 6.5-8.2 | 15 |
| Alkalinity (mg/L) | 15.8 | 15 | 7.3-25.5 | 15 |
| Turbidity (NTU) | 0.9 | 0.5 | 0.5-2.0 | 15 |
| Total N (mg/L) | 0.24 | 0.21 | 0.16-0.41 | 15 |
| NO ₃ -N (mg/L) | | | | |
| Total P (mg/L) | 0.014 | 0.013 | 0.003-0.022 | 15 |