



Family Gripopterygidae

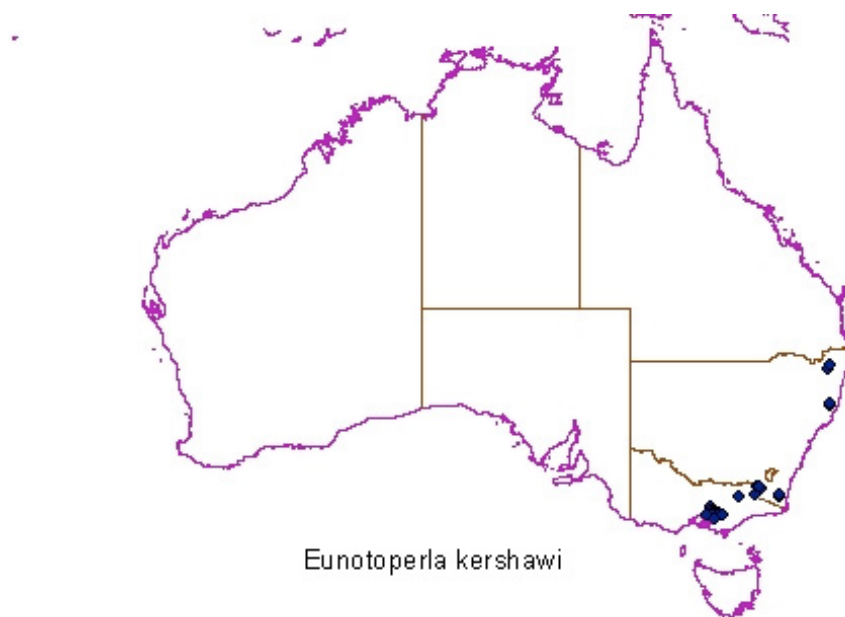
Habitat Profile for *Eunotoperla kershawi* Tillyardi

Eunotoperla kershawi Tillyardi was recorded from 65 samples in Victoria and southern NSW. Michaelis and Yule (1988) noted that this species was distributed throughout the south-eastern coastal region, the Murray-Darling Basin, Victoria and New South Wales in small stony fast flowing streams.

E. kershawi was recorded from high altitude streams usually >400m above sea level (Chart a), that were generally 20km from the source (Chart b), and with a substrate dominated by boulders and cobbles and with <5% detrital cover (Chart c). The streams were small, usually <10m wide (Chart d) less than 0.4m deep (Chart e), with low alkalinity (Chart f) and low conductivity (Chart g).

The following generalities can be made about the other parameters listed in the Table: relatively low temperature (3.9-16 °C), pH was in range of 5.6-8.0 and low turbidity (<16 NTU).

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



Distribution of *Eunotoperla kershawi* in Australia

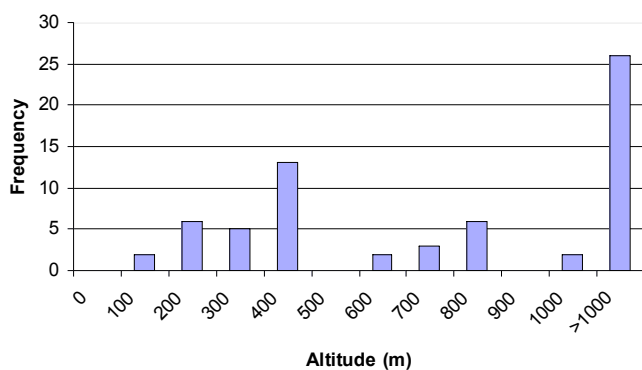


Eunotoperla kershawi, nymph and typical habitat

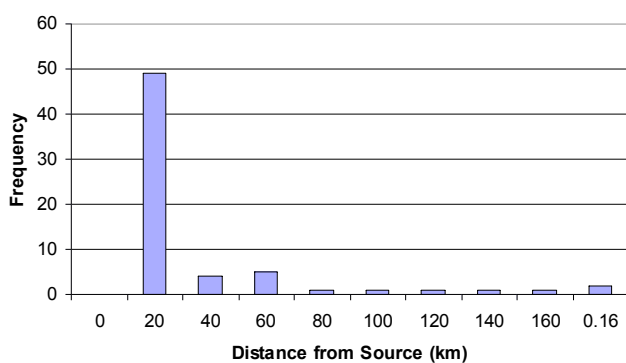


Charts for *Eunotoperla kershawi*

a) Altitude

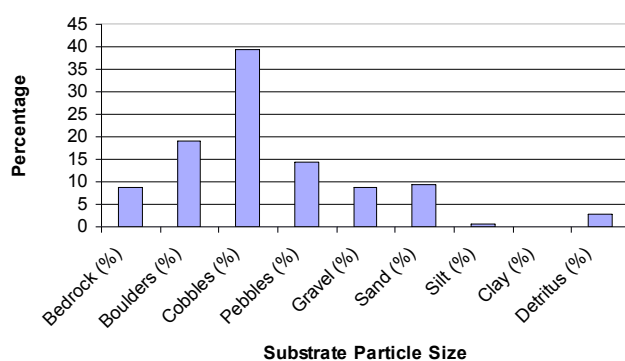


b) Distance from source

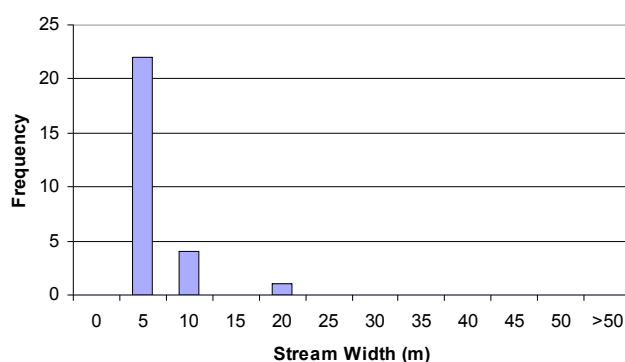




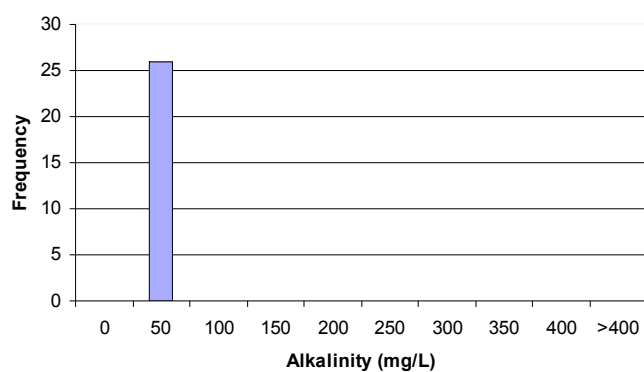
c) Substrate Particle Size



d) Stream Width



e) Alkalinity



f) Conductivity

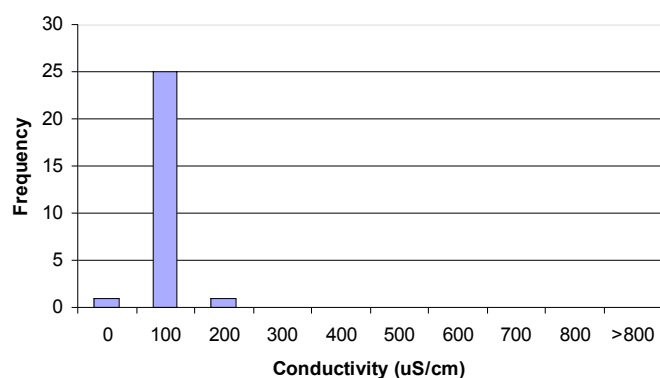




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Eunotoperla kershawi* (N= number of records).

| | Mean | Median | Range | N |
|---------------------------|-------|--------|-------------|----|
| Altitude (m) | 772.6 | 720 | 50-1680 | 65 |
| Distance from source (km) | 30.4 | 8.2 | 0.1-504 | 65 |
| Width (m) | 4.0 | 3 | 0.4-20 | 26 |
| Depth (m) | 0.2 | 0.2 | 0.05-0.65 | 33 |
| Water Temperature (°C) | 10.6 | 10.6 | 3.9-16.0 | 26 |
| Conductivity (µS/cm) | 32.1 | 26.7 | 0-112 | 26 |
| pH | 7.2 | 7.3 | 5.6-8.0 | 26 |
| Turbidity (NTU) | 3.8 | 2.6 | 0-16 | 26 |
| NO3-N (mg/L) | 0.237 | 0.200 | 0.004-1.70 | 23 |
| Total N (mg/L) | | | | |
| Total P (mg/L) | 0.017 | 0.017 | 0.005-0.030 | 23 |
| Alkalinity (mg/L) | 9.0 | 7.0 | 4-26 | 26 |

References

Michaelis FB, Yule C (1988) Plecoptera. In 'Zoological Catalogue of Australia 6. Ephemeroptera, Megaloptera, Odonata, Plecoptera, Trichoptera'. (Eds DW Walton and WWK Houston) pp. 133-176. (Brown Prior Anderson Pty. Ltd.: Burwood, Victoria)