



Family Gripopterygidae

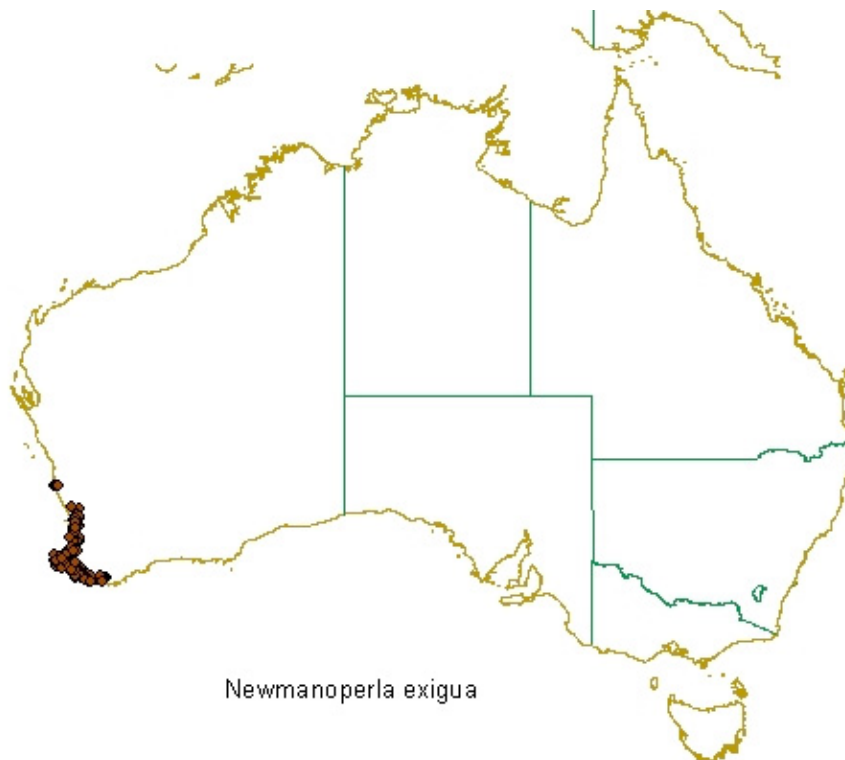
Habitat Profile for *Newmanoperla exigua* Kimmins

Newmanoperla exigua (Kimmins) is also an endemic stonefly from Western Australia and was recorded from 198 samples in the south-west of WA. Hynes and Bunn (1984) described the nymphs and recorded its distribution from the Darling Ranges.

N.exigua was recorded from low altitude streams usually <300m above sea level (Chart a), that were generally 20-40km from the source (Chart b), and with a substrate dominated by sand and with 20% detrital cover (Chart c). The streams were small, usually <10m wide (Chart d) had wide pH range, low turbidity, alkalinity (Chart e) but moderately high conductivity (Chart f).

The following generalities can be made about the other parameters listed in the Table: relatively low temperature (7.9-19.1 °C), pH was in range of 4.2-9.2 and moderate turbidity (<90 NTU).

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

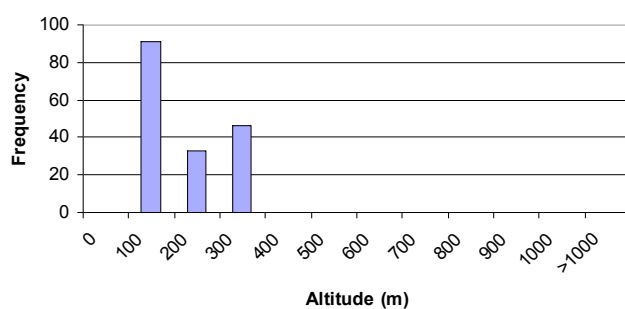


Distribution of *Newmanoperla exigua* in Australia

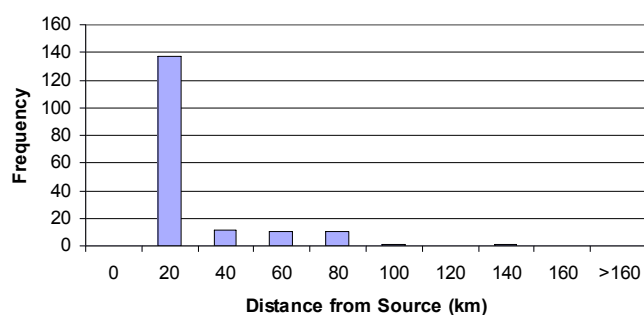


Charts for *Newmanoperla exigua*

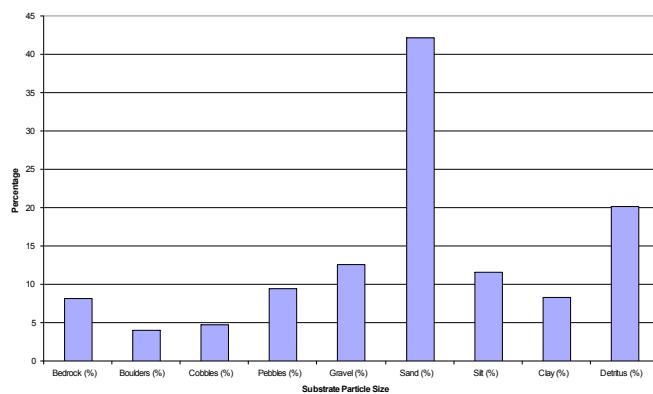
a) Altitude



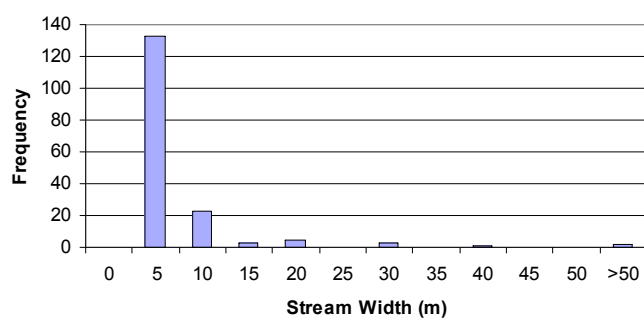
b) Distance from source



c) Substrate Particle Size

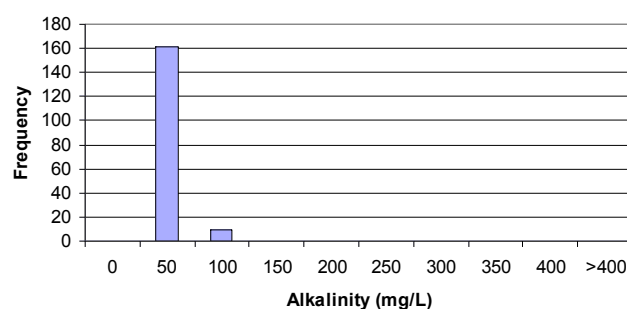


d) Stream Width





e) Alkalinity



f) Conductivity

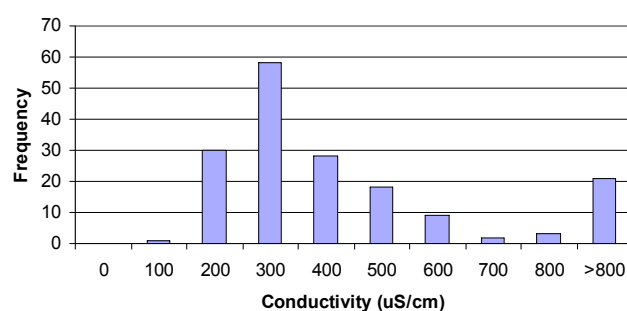


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Newmanoperla exigua* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	120	90	5-300	170
Distance from source (km)	16.7	8	1.2-139	170
Width (m)	5.7	3	1-100	170
Depth (m)				
Water Temperature (°C)	12.9	12.9	7.9-19.1	168
Conductivity (µS/cm)	606	291	136-5160	168
pH	6.6	6.7	4.2-9.2	168
Turbidity (NTU)	4.2	2	0.3-89	170
NO ₃ -N (mg/L)	0.057	0.06	0.01-1.0	169
Total N (mg/L)	0.53	0.45	0.005-2.7	170
Total P (mg/L)	0.02	0.005	0.005-0.054	169
Alkalinity (mg/L)	19.6	13	1-98	170

References

Hynes HBN, Bunn SE (1984) The stoneflies (Plecoptera) of Western Australia. *Australian Journal of Zoology* **32**, 97-107.