



## Family Ecnomidae

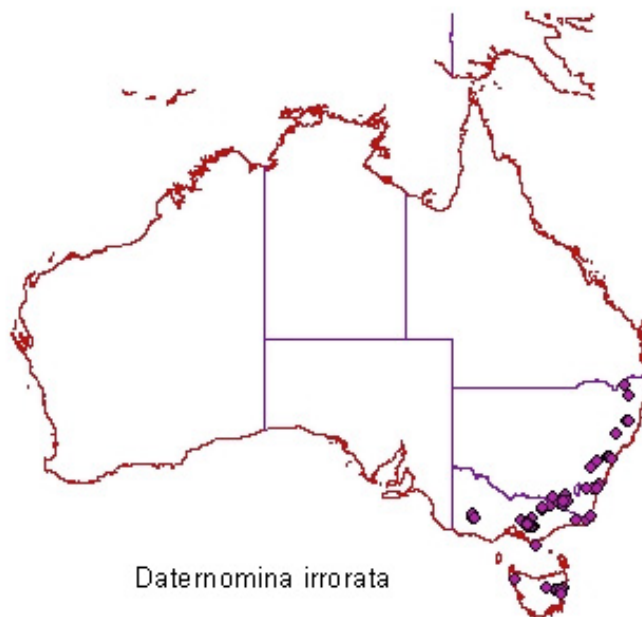
### Habitat Profile for *Daternomina irrorata*

*Daternomina irrorata* Kimmins was recorded from 88 Tasmanian, Victorian and New South Wales localities in this study. This larva has also been recorded from south east Queensland (Cartwright 1997).

Generally *D. irrorata* was recorded in edge, sweep and kick habitat samples from streams mainly at low to high altitudes between 10-1400 m (Chart a), a small to moderate distance from the source at between 0.3-70 km (Chart b), with a fairly even spread of substrates dominated by cobbles and sand with >20% detritus cover (Chart c). The streams were between 1-15 m wide (Chart d), and between 0.3-0.5 m (Chart e), with low alkalinity between 2-49 mg/L (Chart f) and conductivity <333  $\mu$ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: cool to moderate recorded water temperatures between 6-18.5°C, circum-neutral pH in the range 4.5-8, and very low turbidity (<16 NTU).

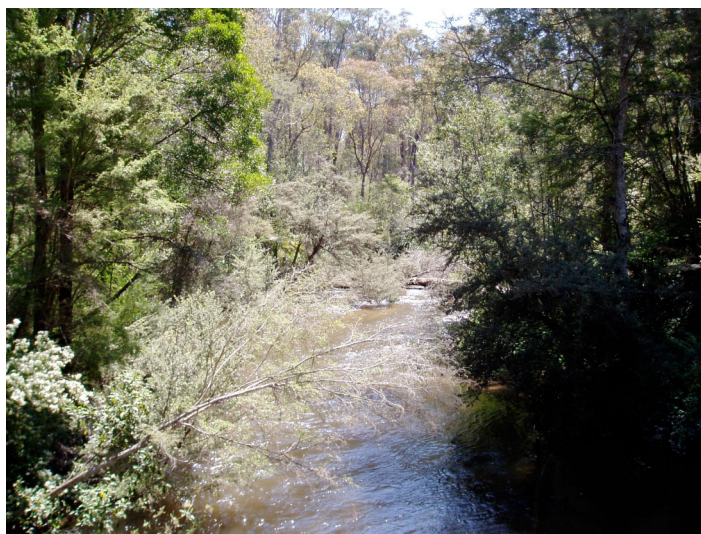
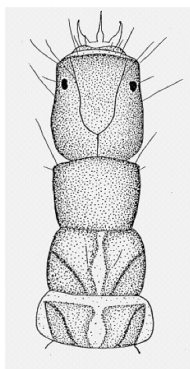
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Daternomina irrorata* in Australia.

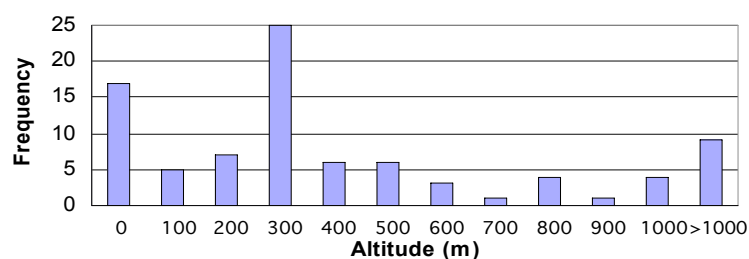


*Daternomina irrorata*, head and thorax, typical habitat

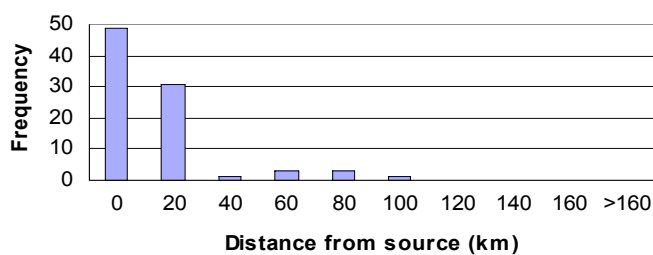


Charts for *Daternomina irrorata*

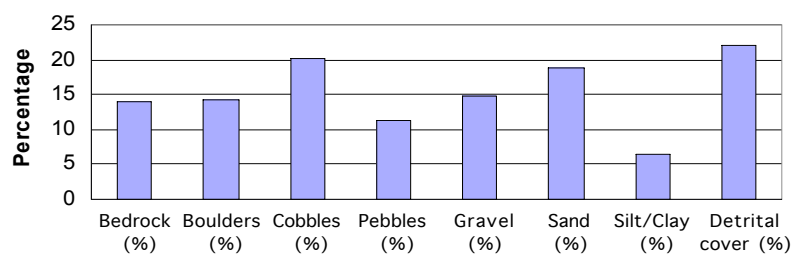
a) Altitude



b) Distance from source

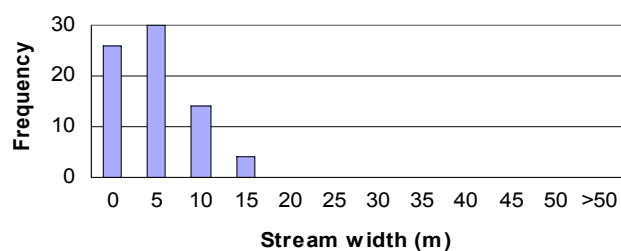


c) Substrate Particle Size

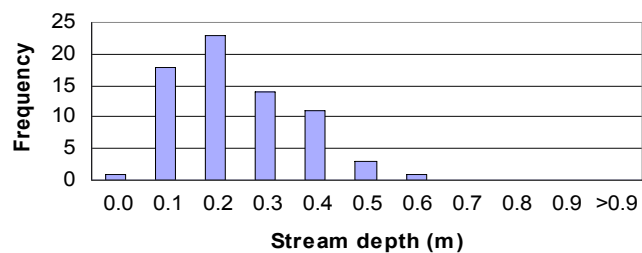




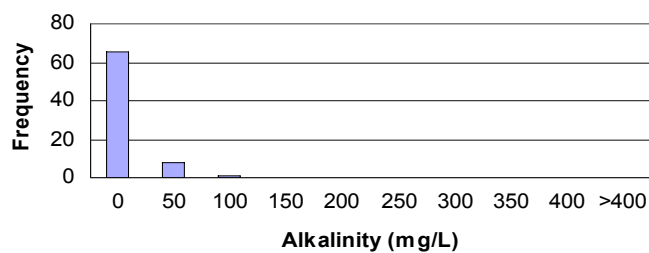
d) Stream Width



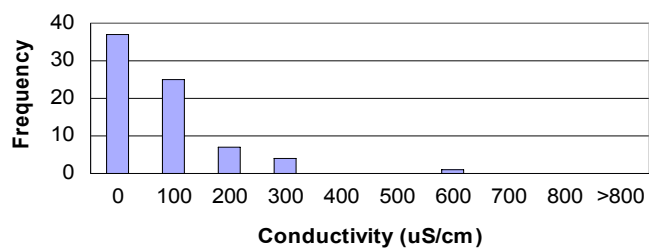
e) Depth



f) Alkalinity



g) Conductivity





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

	Mean	Median	Range	N
Altitude (m)	430	320	10-1500	88
Distance from source (km)	15.2	9.4	0.3-103	88
Stream width (m)	4.7	3.0	0.75-15	74
Stream depth (m)	0.23	0.2	0.03-0.6	71
Water temperature (°C)	12.5	12.7	5.6-21	74
Conductivity (µS/cm)	82	52	0-600	74
pH	6.7	6.8	4-8.2	72
Alkalinity (mg/L)	14.2	10.0	2-119	74
Turbidity (NTU)	3.6	2.2	0-15.5	71
Total N (mg/L)	0.19	0.15	0.086-0.4	13
NO <sub>3</sub> -N (mg/L)	0.06	0.01	0.002-0.73	69
Total P (mg/L)	0.016	0.01	0.002-0.1	71

## References

Cartwright D (1997) 'Preliminary guide to the identification of late instar larvae of Australian Ecnomidae, Philopotamidae and Tasimiidae (Insecta: Trichoptera).'

(Cooperative Research Centre for Freshwater Ecology.: Albury)