



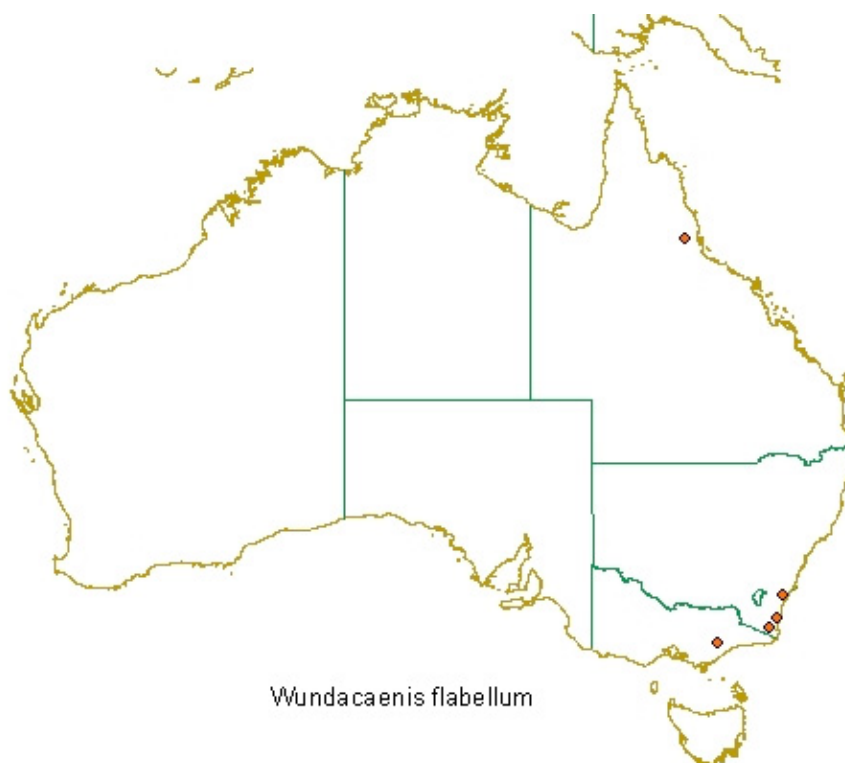
Family Caenidae

Habitat Profile for *Wundacaenis flabellum* Suter

Wundacaenis flabellum Suter was also only rarely found in the samples with only a single record in Queensland, 3 in southern New South Wales and one in Victoria. *W. flabellum* was found in edge samples from streams at low altitude, <200m (Chart a) less than 40km from the stream source (Chart b), and from substrates dominated by gravel and sand stationary with approximately 5% detrital material (Chart c). The streams were usually less than 10m wide (Chart d) with circum-neutral pH, low conductivity (Chart g) and alkalinity (Chart f).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 17.7-27.2 °C, pH mostly in range of 6.8-8.6 and low turbidity of <4 NTU.

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



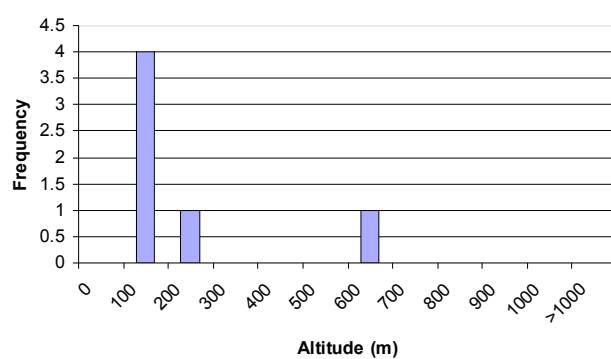
Distribution of *Wundacaenis flabellum* in Australia.



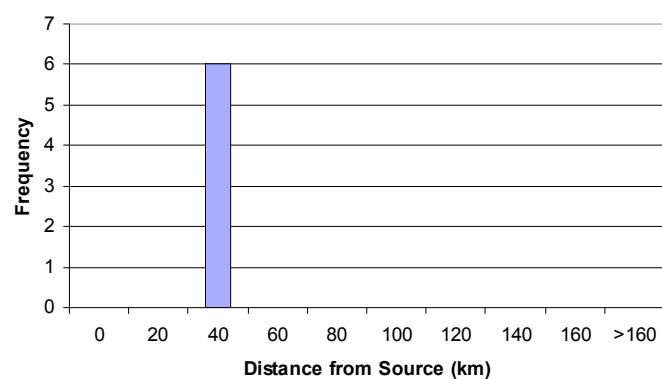
Wundacaenis flabellum, nymph and typical habitat



a) Altitude

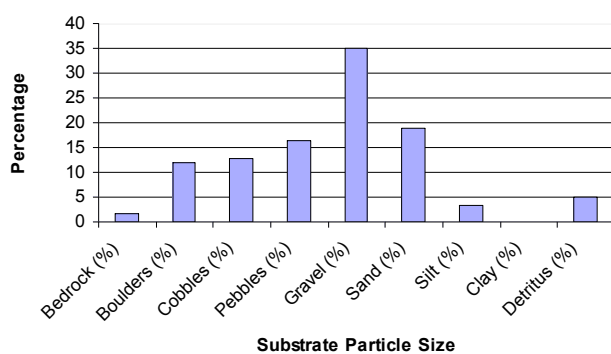


b) Distance from source

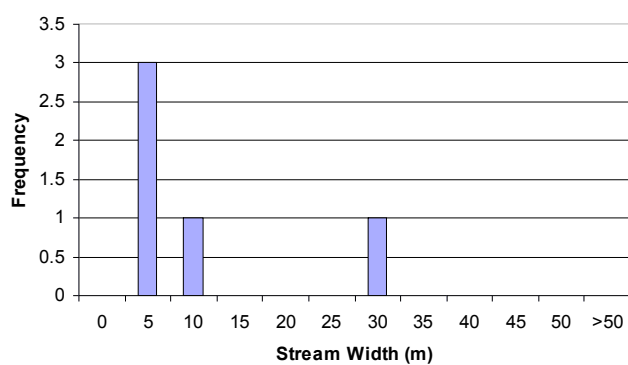




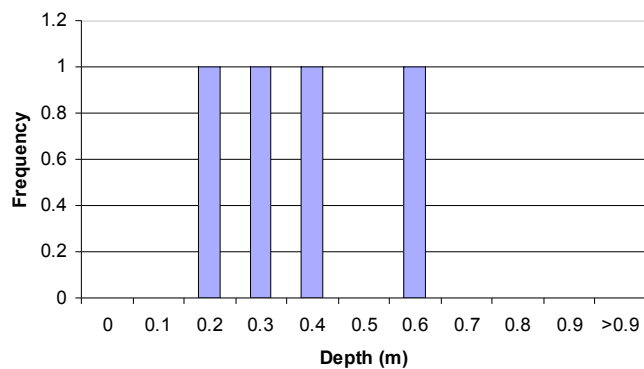
c) Substrate Particle Size



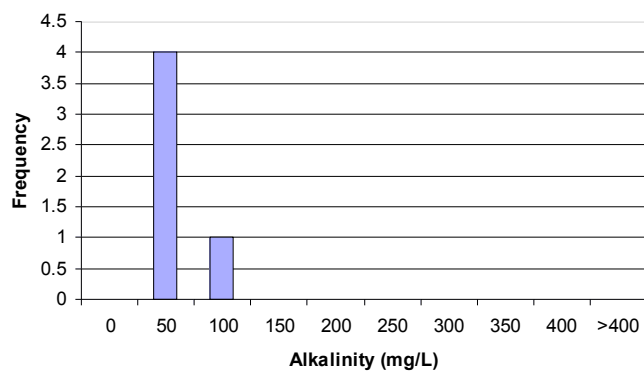
d) Stream Width



e) Depth



f)





g) Conductivity

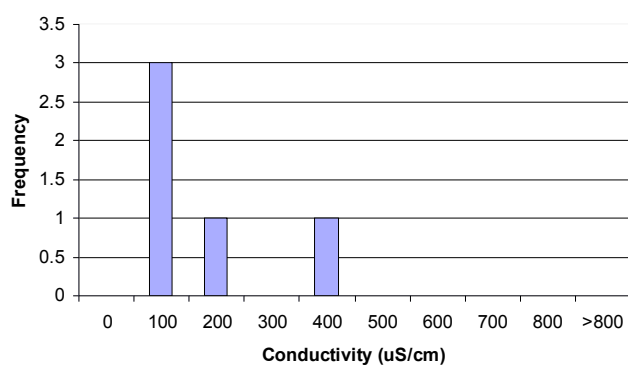


Table. Chemical and physical parameter ranges for *Wundacaenis flabellum*.

	Mean	Median	Range	N
Altitude (m)	144	70	20-545	6
Distance from source (km)	30	27	24-40	6
Width (m)	9.7	5	2.5-27.5	5
Depth (m)	1.6	0.35	0.2-5.67	4
Water Temperature (°C)	21.0	19.8	17.7-27.2	5
Conductivity (µS/cm)	143.5	85	53.7-322	5
pH	7.5	7.6	6.8-8.6	5
Turbidity (NTU)	0.42	0.1	0.1-1.6	5
NO ₃ -N (mg/L)	0.05	0.01	0.01-0.130	4
Total N (mg/L)	0.117	0.08	0.016-0.370	4
Total P (mg/L)	0.009	0.01	0.006-0.010	4
Alkalinity (mg/L)	34	25	13-70	5