



## Family Caenidae

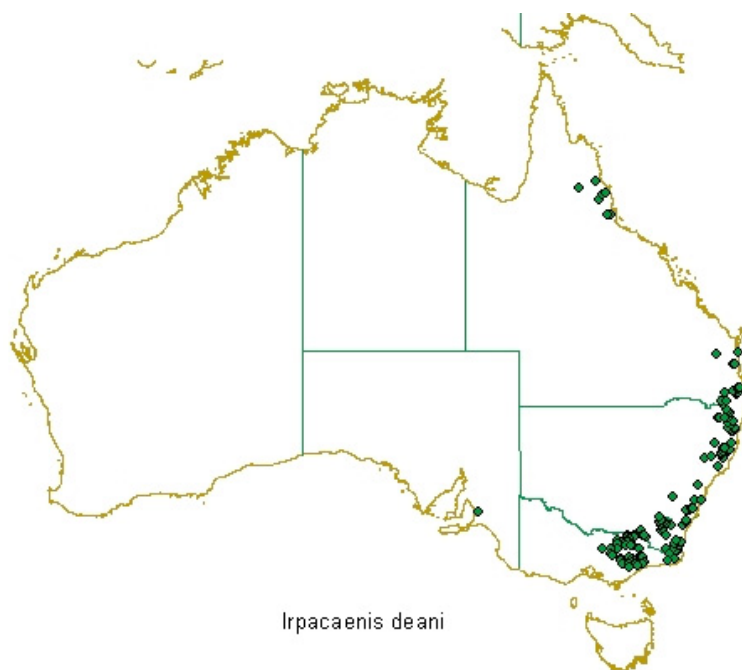
### Habitat Profile for *Irpacaenis deani* Suter

*Irpacaenis deani* was recorded from 327 samples many from the eastern draining streams in Queensland, New South Wales and Victoria with records in the upper Murray catchment in NSW and Victoria, and a single record from the Torrens catchment in South Australia.

*Irpacaenis deani* was recorded from mainly edge/sweep samples, but they also occurred in riffles, but at a much lower frequency. Streams generally flowed through cleared grazing land at low altitude generally below 300m (Chart a) usually less than 100km from the stream source (Chart b) with a cobble dominated substrate with <10% detrital cover (Chart c). The streams were moderate in size usually <20m wide (Chart d) with low alkalinity (Chart f), conductivity (Chart g) and animals were collected from depths <30cm (Chart e).

The following generalists can be made from the parameters listed in the Table. Water temperature ranged from 7.3-33.4 °C, pH was in the range 4.5-8.8 and turbidity was between 1-597 NTU.

Mean and median physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Irpacaenis deani* in Australia

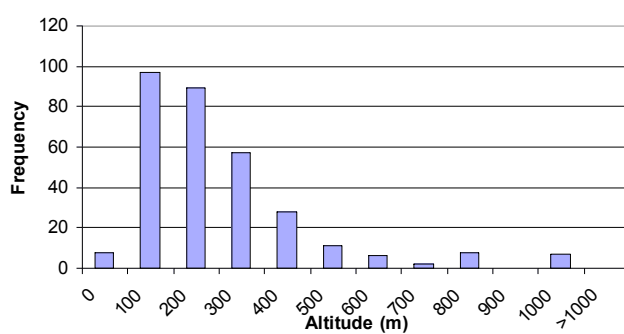


*Irpacaenis deani*, nymph and typical habitat

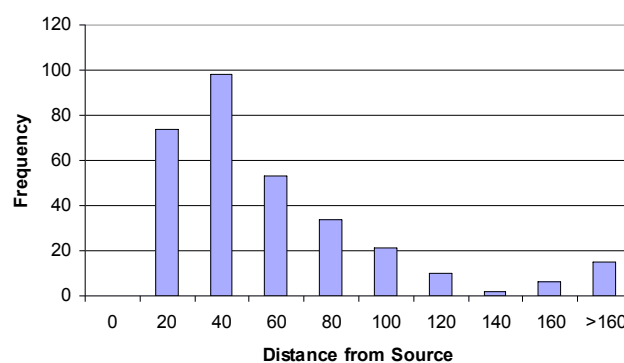


Charts for *Irpacaenis deani*

a) Altitude

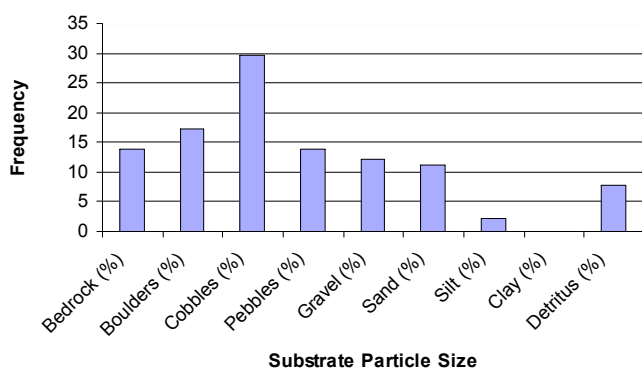


b) Distance from source

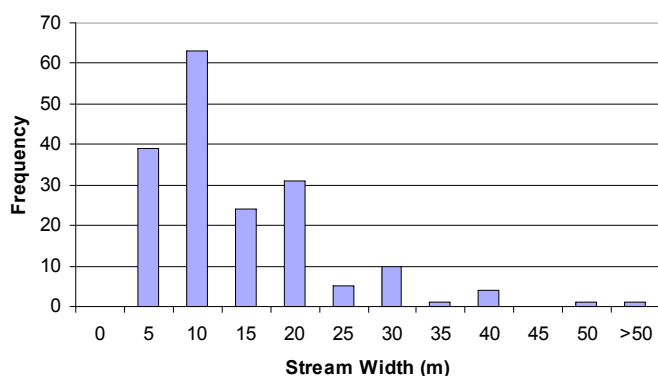




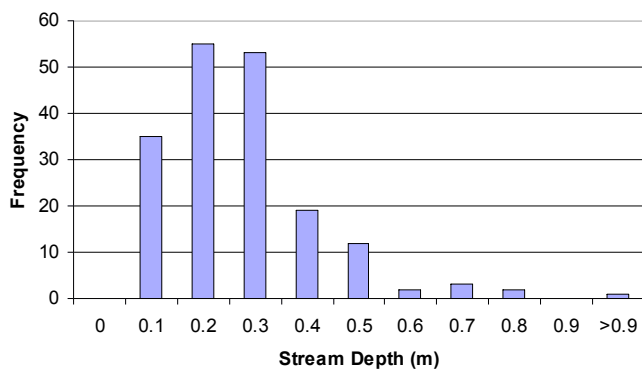
c) Substrate Particle Size



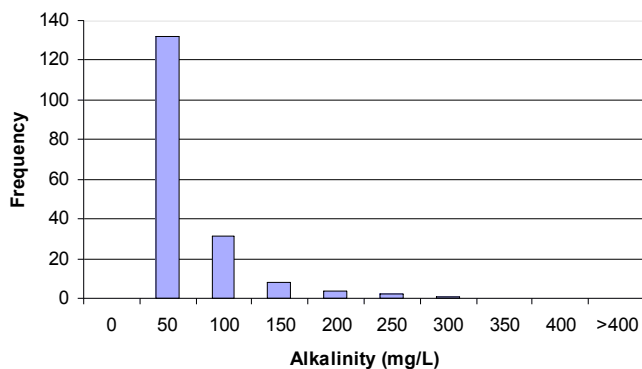
d) Stream Width



e) Depth

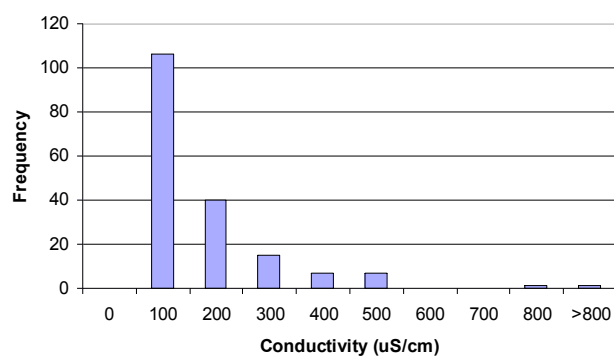


f) Alkalinity





g) Conductivity



**Table.** Mean and median physical and chemical parameters and habitat categories for *I. deani*.

	Mean	Median	Range	N
Altitude (m)	210	180	10-190	313
Distance from source (km)	52	39	19-285	313
Width (m)	13	10	1-55	179
Depth (m)	0.25	0.22	0.01-1.0	178
Water Temperature	18.2	18.3	7.3-33.4	177
Conductivity (µS/cm)	127.5	85	6-884	177
pH	7.5	7.5	4.5-8.82	177
Turbidity (NTU)	9.2	1.9	1-597	166
NO <sub>3</sub> -N (mg/L)	0.05	0.02	0.001-0.640	126
Total N (mg/L)	0.455	0.379	0.058-3.01	55
Total P (mg/L)	0.027	0.016	0.004-0.54	156
Alkalinity (mg/L)	44.4	30.5	3.9-295	178