



Family Libellulidae

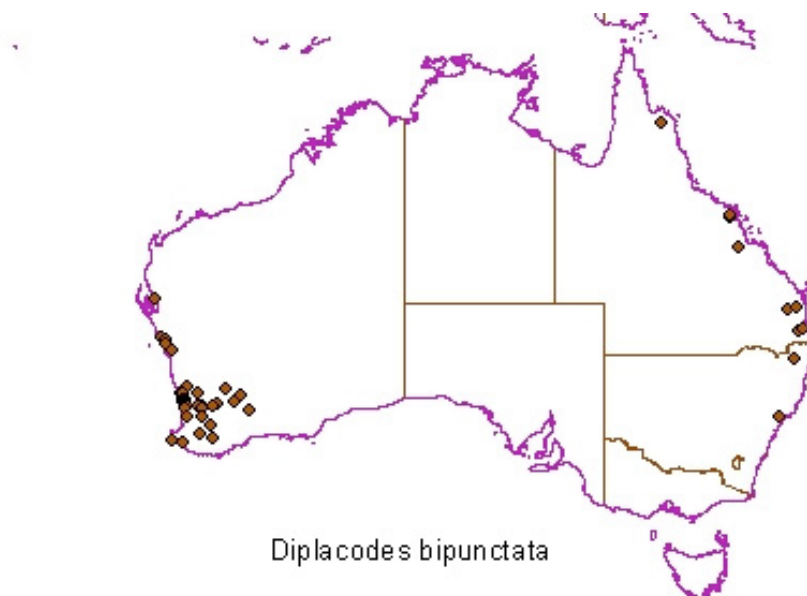
Habitat Profile for *Diplacodes bipunctata* (Brauer)

Diplacodes bipunctata (Brauer) is a widespread species found Australia-wide but not including Tasmania (Houston and Watson 1988; Watson *et al.* 1991). They were recorded from 49 samples from north east Queensland to the central coast of New South Wales and in the south-west of Western Australia up to the Pilbara in this study.

Diplacodes bipunctata was generally found in edge and macrophyte habitats in lowland streams generally below altitudes of 300m (Chart a), but <80km from the stream source (Chart b) with substrate dominated by sand and silt with >15% detrital cover (Chart c). The streams were generally <0.5m deep (Chart e) and <35m wide (Chart d) with low alkalinity generally <200mg/L (Chart f) and with moderate to very high conductivity ranging from 140 to 20000 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: water temperature between 15-30 °C, pH was in range of 6.7-9 and low to high turbidity (0.5-140 NTU).

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



Distribution of *Diplacodes bipunctata* in Australia.

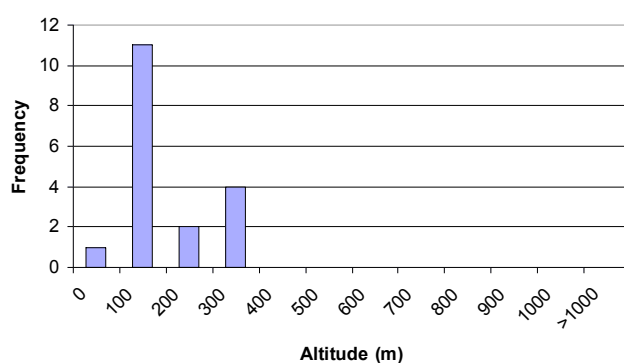


Diplacodes bipunctata, nymph

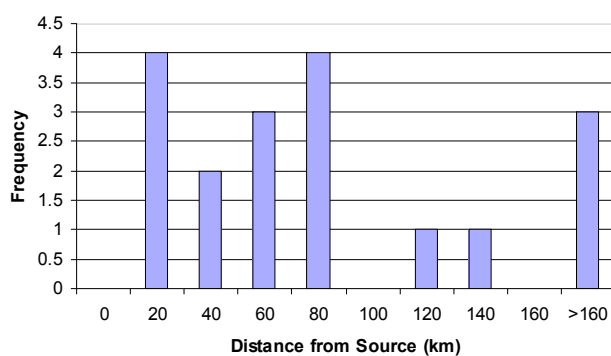


Charts for *Diplacodes bipunctata*

a) Altitude

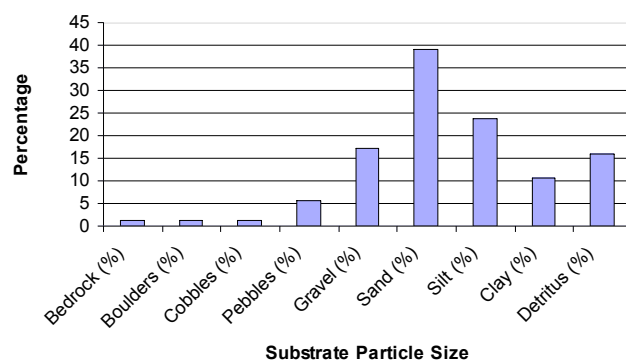


b) Distance from source

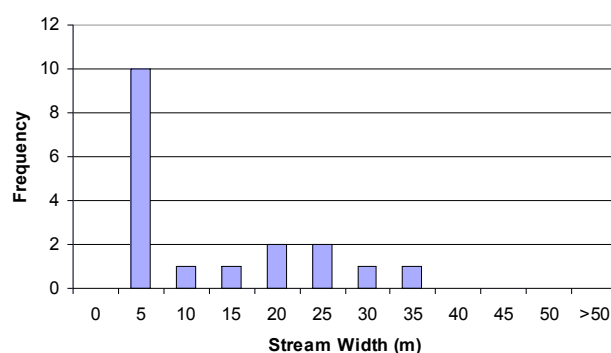




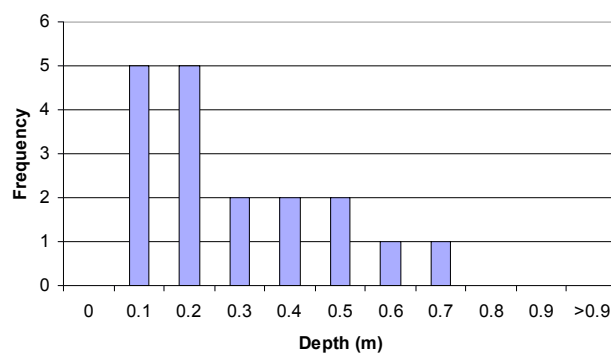
c) Substrate Particle Size



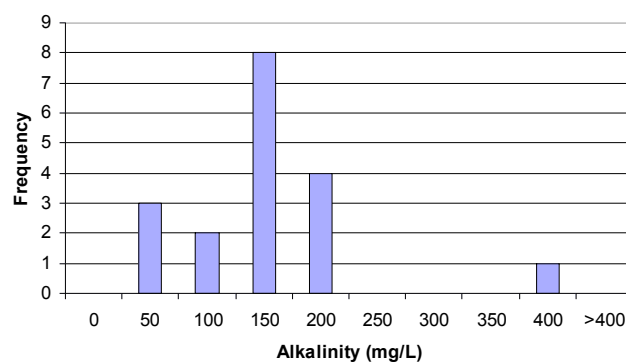
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

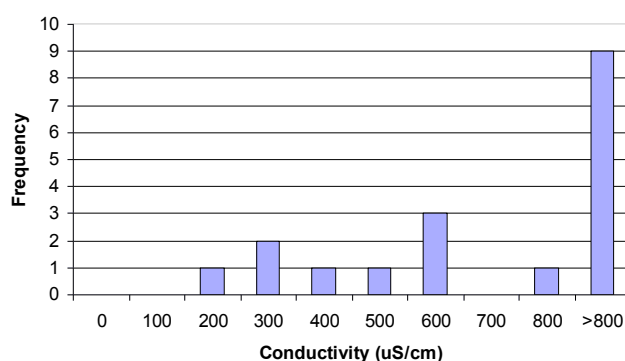


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Diplacodes bipunctata* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	103	75	0-300	18
Distance from source (km)	79.9	62.0	2.0-267	18
Width (m)	11.6	4.5	1.7-35	18
Depth (m)	0.29	0.20	0.10-0.70	18
Water temperature (°C)	22.4	21.6	14.8-30	18
Conductivity (µS/cm)	4105	891	140-20200	18
pH	7.9	7.8	6.7-9.0	18
Turbidity (NTU)	11.6	3.2	0.5-141	18
Oxidised Nitrogen (mg/L)	0.061	0.010	0.010-0.240	9
Total N (mg/L)	1.09	0.645	0.315-7.126	17
Total P (mg/L)	0.082	0.031	0.010-0.460	18
Alkalinity (mg/L)	131.5	130.0	17-400	18

References

Houston WWK, Watson JAL (1988) Odonata. In 'Zoological Catalogue of Australia'. (Eds DW Walton and WWK Houston) pp. 33-132. (Australian Government Publishing Service: Canberra)

Watson JAL, Theischinger G, Abbey HM (1991) 'The Australian Dragonflies. A guide to the identification, distributions and habitats of Australian Odonata.' (CSIRO: Canberra and Melbourne)