

8.71 Avon Richardson macroinvertebrate survey results

LAKE BULOKE

1997 Macroinvertebrate Data for Lake Buloke							
				Water Quality		Vegetation	
	Collected by:	Ron Davies		pH	9.04	Red Gum Woodland	
	Date Collected:	17/12/97		Temp °C	20.5	with Black Box on	
	Identified by:	Lisa Cox		Cond.EC	12600	rises. Understorey of	
				DO mg/L	19.89	Tangled Lignum and	
				Turb.NTU	344	Cane Grass	
Results (% Abundance)							
Class/Order	Family	Site 1	Site 2	Site 3	Site 4	Site 5	Overall
Gastropoda	Physidae	0.0	0.0	0.0	0.0	1.0	0.2
Ostracoda	*	3.3	8.3	11.3	10.7	23.7	11.5
Amphipoda	Ceiniidae	16.0	11.7	16.7	13.7	11.7	13.9
Coleoptera	Dytiscidae (A)	0.0	0.0	0.0	0.0	1.3	0.3
	Hydrophilidae (A)	0.0	0.0	0.0	0.0	0.3	0.1
	Hydrophilidae (L)	1.0	2.0	1.0	2.0	0.0	1.2
Diptera	Ceratopogonidae(L)	0.0	1.3	0.0	1.0	0.7	0.6
	Ceratopogonidae(P)	0.0	0.3	0.0	1.3	0.3	0.4
	Chironomidae (L)	5.3	2.0	1.0	3.3	0.7	2.5
	Stratiomyidae	0.0	0.3	0.0	0.3	0.0	0.1
	Tipulidae	0.0	0.0	0.3	0.0	0.0	0.1
Hemiptera	Corixidae	68.0	66.3	59.7	60.0	56.0	62.0
	Notonectidae	3.7	3.7	6.3	5.3	3.7	4.5
	Corduliidae	0.0	0.3	0.0	0.0	0.0	0.1
Zygoptera	Coenagrionidae	2.3	3.0	2.7	1.7	0.3	2.0
	Lestidae	0.0	0.0	0.0	0.0	0.3	0.1
Trichoptera	Leptoceridae	0.3	0.7	1.0	0.7	0.7	0.7
Total Taxa		8	11	9	10	12	15
Total Percentage		100	100	100	100	100	100

* All specimens have been identified to Family level where practical.

Acarina, Cyclopoida and Ostracoda have been identified to a higher taxonomic level, usually Order.

L-Larva A-Adult P-Pupa

Interpretation

Lake Buloke has medium quality water in terms of organic pollution (Victorian Community Water Quality Monitoring Task Group 1996). The presence of large numbers of Ostracods, which are tolerant of large salinity increases may indicate that salinity levels are affecting taxa richness (Kefford 1997).

(Davies 1997)

LAKE COPE COPE

1997 Macroinvertebrate Data for Lake Cope Cope							
				Water Quality		Vegetation	
	Collected by:	Ron Davies		pH	8.89	Red Gum Woodland	
	Date Collected:	17/12/97		Temp °C	19.9	with Black Box on	
	Identified by:	Lisa Cox		Cond.EC	3030	rises. Understorey of	
				DO mg/L	9.26	Tangled Lignum and	
				Turb.NTU	226	Cane Grass	
Results (% Abundance)							
Class/Order	Family	Site 1	Site 2	Site 3	Site 4	Site 5	Overall
Gastropoda	Physidae	0.0	0.0	1.3	1.0	0.3	0.5
Araneae	Tetragnathidae	0.0	1.0	0.7	0.3	0.3	0.5
Amphipoda	Ceinidae	68.7	80.0	71.7	35.0	13.0	53.7
Decapoda	Atyidae	4.0	1.7	0.7	2.7	0.0	1.8
Coleoptera	Hydrophilidae (L)	0.0	0.0	0.0	0.3	0.0	0.1
Diptera	Ceratopogonidae(L)	0.0	0.0	2.0	0.3	0.3	0.5
	Chironimidae (L)	0.3	0.0	0.7	3.3	7.0	2.3
Ephemeroptera	Caenidae	0.0	0.0	0.7	2.3	0.3	0.7
Hemiptera	Belostomidae	0.0	0.0	0.3	0.3	0.0	0.1
	Corixidae	25.7	16.3	19.3	50.0	74.3	37.1
	Mesoveliidae	0.0	0.0	0.3	0.0	0.0	0.1
	Notonectidae	0.7	0.0	0.0	4.0	3.0	1.5
Lepidoptera	Pyalidae	0.3	0.3	0.3	0.0	0.0	0.2
Zygoptera	Coenogronidae	0.0	0.0	1.0	0.3	0.0	0.3
Trichoptera	Leptoceridae	0.3	0.7	1.0	0.0	1.3	0.7
Total Taxa		7	6	13	12	9	15
Total Percentage		100	100	100	100	100	100

* All specimens have been identified to Family level where practical.

Acarina, Cyclopoida and Ostracoda have been identified to a higher taxonomic level, usually Order.

L-Larva A-Adult P-Pupa

Interpretation

Lake Cope Cope has medium quality water in terms of organic pollution (Victorian Community Water Quality Monitoring Task Group 1996), although the taxa Ephemeroptera and Trichoptera which are classed as 'sensitive' to organic pollution were present. The Ephemeroptera and Atyidae are sensitive to increases in salinity and would be expected to decline with an increase in salinity levels (Kefford 1997).

(Davies 1997)

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