Bancroft: MK 343

3649

Atthe Report

Molluscan analysis

P.J. Spencer

Samples for molluscan analysis were taken from layers 1/2, 3, 4, 5, 6 and 8. A 0.5 kg sample of air-dried material was examined from each layer. The samples were wet-sieved and sorted following the methods described by Evans, 1972, p 44. All molluscs over 500 μ -were identified and counted.

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The results are presented as absolute numbers in Table 1.

In the field molluscs were noted in layers 1, 2, 3, 4, 6, 7 and 8, but were absent in the samples from layers 3 and 4 examined in the laboratory. The molluscs noted in these layers were consistent with the findings from the other more productive layers, i.e. marsh species.

According to Evans (1972) marsh habitats contain species belonging to four ecological groups:- freshwater slum species (freshwater species with a preference or tolerance for poor water conditions such as drying up of water, stagnation, temperature variations), obligatory marsh species, terrestial species characteristic of marshes but not confined to them, and terrestial species frequently found in marshes, but more typically terrestial.

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Sample no.	1/2	6	8
Dry weight	0.5 kg	0.5 kg	0.5 kg
Terrestial		,	
Carychium tridentatum (Risso)	249	2	14
Oxyloma pfeifferi (Rossmassler)	11	-	-
<u>Succineidae</u> (juveniles)	4 ····	1	-
Cochlicopa lubrica (Muller)	14	1	3
Cochlicopa sp.	33	-	1
Vertigo cf pusilla Múller	-	1	-
Vertigo antivertigo (Draparnaud)	12	4	6
Vertigo pygmaea (Draparnaud)	8	.1	-
Vertigo angustior Jeffrys	· -	-	1
Vertigo spp.	12	-	7
Vallonia costata (Müller)	4	-	-
Vallonia pulchella (Müller)	4	-	-
<u>Vallonia excentrica</u> Sterki	22	-	5
Vallonia spp.	118	2	4
Punctum pygmaeum (Draparnaud)	7	1	1
Discus rotundatus (Müller)	-	-	1
Vitrea crystallina	1	-	
<u>Nesovitrea hammonis</u> (Strom)	23	-	1
<u>Aegopinella pura</u> (Alder)	7	-	
<u>Aegopinella nitidula</u> (Draparnaud)	6	-	6
<u>Oxychilus cellarius</u> (Muller)	1	2	6
<u>Oxychilus alliarius</u> (Miller)	-	-	-
Zonitoides nitidus (Müller)	9		1
Limacidae	4	5	2
Euconulus fulvus (Müller)	6	-	
<u>Trichia hispida</u> (Linnaeus)	211	10	55
Freshwater			
Lymnaea truncatula (Muller)	10	-	-
Pisidium spp.	26		1
Total	802	30	115
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Table 1.

Absolute numbers of mollusca from Bancroft waterlogged site.

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Freshwater slum species:-

Obligatory marsh species:-

Terrestial species characteristic of marshes:-

Terrestial species sometimes found in marshes:-

Other terrestial species with no special affinities with marsh habitats:- Lymnaea truncatula Pisidium spp.

4.48% of sample 1/2

Oxyloma pfeifferi Vertigo antivertigo Vertigo angustior Zonitoides nitidus

Oxyloma pfeifferi, Vertigo antivertigo, Zonitoides nitidus all tend towards wetter places, and may be found with Lymnaea truncatula and Pisidium spp They prefer open habitats.

5.36% of sample 1/2. 13% of sample 8. 5 (absolute) in sample 6.

Vallonia pulchella

2.74% of sample 1/2.

Carychium tridentatum Cochlicopa lubrica Vertigo pygmaea Trichia hispida Punctum pygmaeum Euconulus fulvus Vitrea crystallina Nesovitrea hammonis

69.3% of sample 1/2. 65.2% of sample 8. 15 (absolute) in sample 6.

Aegopinella spp.	ຣ
Dxychilus spp.	
Discus rotundatus	
Vertigo pusilla	

shade-loving " "

1.8% of sample 1/2.
11.3% of sample 8.
3 (absolute) in sample6.

Vallonia costata Vallonia excentrica open-country

15.7% of sample 1/2 (15.2% is <u>V.excentrica</u>). 7.8 % of sample 8 (all <u>V.excentrica</u>). 2 (absolute) in sample 6.

Suggested habitats.

Samplé 1/2 Freshwater slum - 5% Obligatory marsh 5% Terrestial (marsh) 3% Terrestial (sometimes marsh) 69% Other 18%

Marsh, with some small open bodies of water amongst marsh vegetation. More terrestial habitats than freshwater.

Sample 6

Relatively few molluscs recovered; insufficient numbers to indicate environment. Most of fairly catholic habitat preference; some marsh species, some terrestial.

Sample 8

Freshwater slum - 1 <u>Pisidium</u> valve Obligatory marsh 13% Terrestial (catholic - sometimes marsh) 65% Other 19%

Probably wet meadowland tending towards marsh, with little evidence for open water. Drier than 1/2.