

LIGHT TRAPPING OF CADDISFLIES AT WINCHMORE IRRIGATION

RESEARCH STATION, MID-CANTERBURY, NEW ZEALAND

(MAY 1974 - SEPTEMBER 1975) (NOTE)

A.G. MCFARLANE

Canterbury Museum, Rolleston Avenue, Christchurch, New Zealand

ABSTRACT

Results of light trappings of caddisflies at Winchmore Irrigation Research Station, Mid-Canterbury, New Zealand, are presented.

The emergence of agricultural pest insects at the Winchmore Irrigation Research Station, inland Mid-Canterbury (171° 44'E, 43°51'S) is monitored by continuous light trapping with weekly examination of the catch. Table 1 lists the caddis captured from May 1974 to September 1975. As the emergence during the periods 25 May 1974 to 14 September 1974 and 24 May 1975 to 13 September 1975 was sporadic only total numbers captured are given (column 4). Species found only in low numbers have been recorded in the footnote.

The information presented cannot be taken as an overall picture of the emergence periods of the species recorded. There is no information as to where these insects came from. The light traps are in open flat fields near one of the very small races. On the few occasions I visited these streams to collect larvae, the races were too cloudy for collecting and the only larvae I was able to take were a few *Aoteapsyche colonica*. The races are closed and cleaned out during the winter.

The nearest permanent water source was probably the Ashburton River about 8 km away. My observations from other areas show that caddis can travel some distance from their point of emergence. For example:

- (1) the marine caddis *Philaniscus plebeius* caught in a telephone box in Nelson about 3 km from the sea;
- (2) *Aoteapsyche colonica* on Scarborough Hill, Sumner, 7 km from the possible point of origin, a gravelly ditch entering the source of the canal in Canal Reserve, Linwood, Christchurch, or alternatively from streams across Lyttelton Harbour, 6 km to the south-east;
- (3) *Oecetis unicolor* and *Paroxyethira hendersoni* at my house, 2.5 km from a suitable habitat in the lower part of the Canal Reserve.

ACKNOWLEDGMENTS

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TABLE 1. LIGHT TRAPPINGS OF CADDISFLIES AT WINCHMORE IRRIGATION RESEARCH STATION (MAY 1974-SEPTEMBER 1975).

		Sept. 21 28	Oct. 5 12 19 26	Nov. 2 9 16 23 30	Dec. 7 14 21 28	Jan. 4 11 18 25	Feb. 1 8 15 22	March 1 8 15 22 29	April 5 12 19 26	May 3 10 17	Totals '74-May '75	Sept. -14 Sept. '74 & 24 May - 13 Sept '75	Totals 25 May '74	Sex Ratio ♂:♀
<i>Pycnocentroides aureola</i>	♂		1			1 1 2 3 6 2 2 2 3 2 2 3 2 1 3 1					40		40:88	
	♀		1 1 3 2 3 4 6 7 2 5 4 1 5 1 1 2 3 1 3 5 7 8 5 4 3 1								88			
<i>Triplectides cephalotes</i>	♂			1 1	1 1 1 1 1			1 3 1 3 1 3			0		0:19	
	♀										19			
<i>Hudsonema amabilis</i>	♂			1 1 1 1 1 1	2 1 1	2 2 4 1 1		1 1 1			23		23:92	
	♀			2 4 6 7 5 4 4 4 3 5 5 2 1 3 3 2 3 4 2 4 5 2 3 4 3 4 2							92			
<i>Occetis unicolor</i>	♂		1		1 1	1	1 3		1 1 1		1		1:11	
	♀			1							11			
<i>Aoteapsyche colonica</i>	♂			1 1				1			3		3:6	
	♀	1	1	2 1				1			6			
<i>Aoteapsyche catherinae</i>	♂		1 1 1		1	2	1 1	4 4 3 1			20		20:24	
	♀		1 3	4 1 2	1 1 1		2 1 1 1 2 1 1 1				24			
<i>Aoteapsyche tepoka</i>	♂		4 1 1	1			2				9		9:3	
	♀		1						1 1		3			
<i>Hydrobiosis umbripennis</i>	♂	1	2 1		1 2 3 1 4 4	2 1			1		9	2	11:97	
	♀	7	6 3 8	1	1 2 3 1 4 4 3 2 4 1 6	2 4 1 6	2 2 2 1 1 3 1 3 3 2			2 5	83	14		
<i>Hydrobiosis parumbripennis</i>	♂			1 1 1		1 1	1 1 1	1			1		1:22	
	♀	2 6		1 1 1		1 1	1 1 1	1			19	3		
<i>Hydrobiosis frater</i>	♂	5			1	1	1 1 1	1 1 2			13		13:8	
	♀	1	1			1 1			2		8			
<i>Hydrobiosis clavigera</i>	♂	1 1									2		2:3	
	♀					1		1		1	3			
<i>Hydrobiosis copis</i>	♂			2			1 1			1	0		0:11	
	♀				1						6	5		
<i>Psilochorema tautoru</i>	♂				1 1				1 1		0		0:10	
	♀	1		2							8	2		
<i>Psilochorema leptoharpax</i>	♂	1 1		1	1	1 2 1 2	1		1	1	6		6:52	
	♀	1 3 4 1 7 7	1 1	1 2 1 2				2 2 1 1 2 2 2 2 1 1 2 1			52			
<i>Oxyethira albiceps</i>	♂	10 4	8 9 2 2	4 8	7 10 6 7 1 1 4	4 2 4 2	2 2 3 1		1 1	5	110	4	114:182	
	♀	40 6	9 3 14	12	3 9 10 6	2 9	10 6 4 2	6 2 5 3 2 1 2 2 3 2 2		175	7			
<i>Paroxyethira hendersoni</i>	♂			1 1	1 1 1 2 2 9 4 14 8 7 12 8 9 4 6 3 5 8 8 2 10 4 4						2		2:144	
	♀			3 3 2 1 1 1 1 2 2 9 4 14 8 7 12 8 9 4 6 3 5 8 8 2 10 4 4						3	144			

Species excluded from Table 1: *Costachorema xanthoptera* ♀, 8.III.75; *Pycnocentria evecta* 2♀♀, 16.XI.74, 11.I.75; *Olinga feredayi* ♀, 7.XII.74, ♂, 22.III.75.