

**Cressbrook and Litton Flyfishers Club**

**The River Wye, Derbyshire**

**Adult Upwing and Stonefly Records – 2017**



**By Stuart M Crofts**

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## Introduction

This is the third year of this project and it has once again produced some interesting results. The way the project works is quite simple. In each of the fishing huts there are “sample packs” available for members to pick up. Each sample pack consists of a small zip-lock bag inside of which is a screw top sample tube and an information slip. Members are invited to take along a sample pack when they go fishing and if they come across any upwing flies, or stoneflies, they can be caught and put into the sample tube. On returning to the fishing huts the sample tube is filled with some preserving alcohol and, very importantly, the information slip is completed with the members name along with the date and the beat number where the sample was caught. The tube and the information slip are then put back in the zip-lock bag and placed in a box where I can pick them up for analysis.

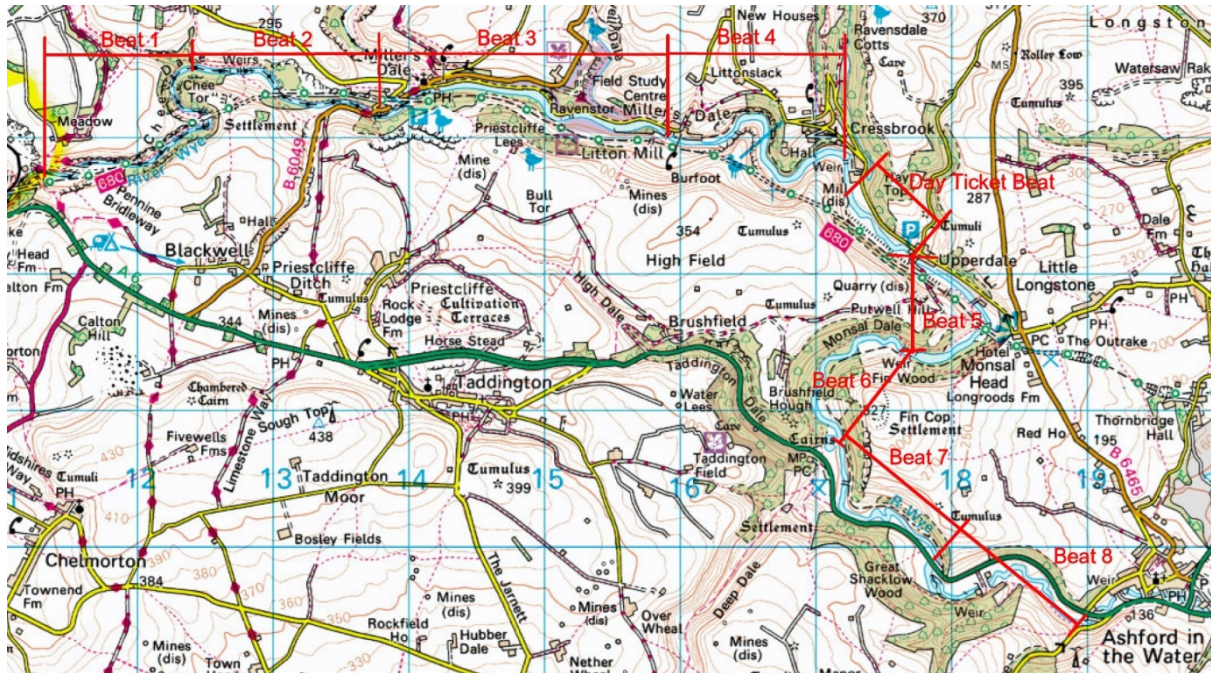
The term “upwing flies” relates to the insects in the order Ephemeroptera, this includes some very familiar insects as far as the anglers are concerned such as the blue winged olives, mayflies and iron blues. The name “stoneflies” relates to the insects in the order Plecoptera, these are less well known and like caddisflies (that I also study in detail) tend to be overlooked by the anglers yet they are often taken eagerly by the fish the anglers are trying to catch.

I **only** require the adult stages of these insects for this project (obviously for the flight period data). And, as anglers will be aware, the upwings are peculiar in that all our UK species have two adult stages. Anglers know these as *duns* and *spinners*. It does not matter which are collected, in fact getting samples of both is very useful as some species are easier for me to identify (to the full species level) as duns while others can only be positively identified at the spinner stage.

I hope you find the report interesting as it once again highlights the richness of this wonderful river which I hope no one ever just takes for granted because it is a rare and very special place.

Stuart M Crofts, February 2018

## Cressbrook & Litton Flyfishers Club Fishery Beat Locations



The Cressbrook & Litton Flyfishers Club has fishing rights on the River Wye in Derbyshire. The club has divided the fishing for its members into eight beats with an additional section for “day ticket” anglers in the middle. The map above shows the general locations of these beats and below are the locations using Ordnance Survey grid references. For the purpose of this study the beat numbers have been used as the reference to where the insect samples were collected.

**Beat 1:** SK112727 downstream to SK123734

**Beat 2:** SK123734 downstream to SK137731

**Beat 3:** SK137731 downstream to SK158730

**Beat 4:** SK158730 downstream to SK172728

**Day Ticket:** SK172725 downstream to SK177721

**Beat 5:** SK177721 downstream to SK176714

**Beat 6:** SK176714 downstream to SK171706

**Beat 7:** SK171706 downstream to SK178698

**Beat 8:** SK178698 downstream to SK189694

## Summary of Adult Upwing Results and Comments

At the bottom of this page is a table showing all the species of adult upwings that were recorded in 2017 on the Cressbrook and Litton fishing beats on the River Wye. On the same table the common or “anglers” name is also given for each species.

On the page following you will find two more tables with the same list of species; one table shows the months of the year that the different species were recorded and the other table shows the beats where they were found. Following this there are similar tables, but these are particularly interesting, as they show the **Ongoing Records** (combined results for 2015, 2016 and 2017).

There are no adult upwing records for January, February, October, November and December in 2017, not really surprising as there are few club members on the river during these months. With the upwings some species will have short hatch periods like *Paraleptophlebia submarginata* while others will be around all season long such as *Baetis rhodani*. But, as in previous years, please don't read too much into any of this data because under recording is bound to be a huge factor during any single year. However, looking on the positive side, year on year gaps in the data are getting filled.

In 2017 two species of upwing were recorded on every single beat of the fishery during a single season, these were *Baetis rhodani* and *Ephemera danica*. Not a real surprise but there is nothing like getting the samples to prove it. There were no new species of upwings recorded to this scheme during 2017 so maybe we have got them all? Only time will tell but with fifteen species of upwings now recorded on the club waters it is already a pretty impressive list.

Genus	Species	Common Name
<i>Baetis</i>	<i>muticus</i>	Northern Iron Blue
<i>Baetis</i>	<i>rhodani</i>	Large Dark Olive
<i>Baetis</i>	<i>scambus</i>	Small Dark Olive
<i>Centroptilum</i>	<i>luteolum</i>	Small Spurwing
<i>Ecdyonurus</i>	<i>torrentis</i>	Large Brook Dun
<i>Ephemera</i>	<i>danica</i>	Mayfly
<i>Paraleptophlebia</i>	<i>submarginata</i>	Turkey Brown
<i>Procloeon</i>	<i>pennulatum</i>	Large Spurwing
<i>Rhithrogena</i>	<i>semicolorata</i>	Olive Upright
<i>Serratella</i>	<i>ignita</i>	Blue Winged Olive

## 2017 Adult Upwing Records

Genus	Species	Months Recorded											
		J	F	M	A	M	J	J	A	S	O	N	D
<i>Baetis</i>	<i>muticus</i>					✓	✓		✓	✓			
<i>Baetis</i>	<i>rhodani</i>			✓	✓	✓	✓						
<i>Baetis</i>	<i>scambus</i>						✓						
<i>Centroptilum</i>	<i>luteolum</i>					✓	✓		✓				
<i>Ecdyonurus</i>	<i>torrentis</i>					✓	✓						
<i>Ephemera</i>	<i>danica</i>					✓	✓	✓	✓				
<i>Paraleptophlebia</i>	<i>submarginata</i>						✓						
<i>Procloeon</i>	<i>pennulatum</i>						✓						
<i>Rhithrogena</i>	<i>semicolorata</i>				✓	✓	✓		✓				
<i>Serratella</i>	<i>ignita</i>					✓	✓	✓	✓	✓			

Genus	Species	Fishery Beats Recorded								
		Beat 1	Beat 2	Beat 3	Beat 4	Day Ticket	Beat 5	Beat 6	Beat 7	Beat 8
<i>Baetis</i>	<i>muticus</i>	✓		✓			✓		✓	
<i>Baetis</i>	<i>rhodani</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Baetis</i>	<i>scambus</i>								✓	
<i>Centroptilum</i>	<i>luteolum</i>			✓		✓			✓	
<i>Ecdyonurus</i>	<i>torrentis</i>	✓	✓	✓		✓	✓			
<i>Ephemera</i>	<i>danica</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Paraleptophlebia</i>	<i>submarginata</i>						✓	✓		
<i>Procloeon</i>	<i>pennulatum</i>		✓						✓	
<i>Rhithrogena</i>	<i>semicolorata</i>	✓	✓	✓		✓	✓	✓		
<i>Serratella</i>	<i>ignita</i>	✓	✓	✓			✓	✓	✓	

## Ongoing Adult Upwing Records (2015-17)

Genus	Species	Months Recorded											
		J	F	M	A	M	J	J	A	S	O	N	D
<i>Baetis</i>	<i>muticus</i>					✓	✓	✓	✓	✓			
<i>Baetis</i>	<i>niger</i>				✓								
<i>Baetis</i>	<i>rhodani</i>			✓	✓	✓	✓	✓	✓	✓	✓	✓	
<i>Baetis</i>	<i>scambus</i>						✓			✓			
<i>Baetis</i>	<i>vernus</i>					✓							
<i>Caenis</i>	<i>rivulorum</i>						✓						
<i>Centroptilum</i>	<i>luteolum</i>					✓	✓		✓	✓	✓		
<i>Ecdyonurus</i>	<i>dispar</i>									✓	✓		
<i>Ecdyonurus</i>	<i>torrentis</i>					✓	✓						
<i>Ephemera</i>	<i>danica</i>				✓	✓	✓	✓	✓				
<i>Heptagenia</i>	<i>sulphurea</i>						✓						
<i>Paraleptophlebia</i>	<i>submarginata</i>					✓	✓						
<i>Proclonia</i>	<i>pennulatum</i>						✓		✓	✓			
<i>Rhithrogena</i>	<i>semicolorata</i>				✓	✓	✓	✓	✓	✓			
<i>Serratella</i>	<i>ignita</i>					✓	✓	✓	✓	✓	✓		

Genus	Species	Fishery Beats Recorded								
		Beat 1	Beat 2	Beat 3	Beat 4	Day Ticket	Beat 5	Beat 6	Beat 7	Beat 8
Baetis	muticus	✓	✓	✓		✓	✓	✓	✓	✓
Baetis	niger									✓
Baetis	rhodani	✓	✓	✓	✓	✓	✓	✓	✓	✓
Baetis	scambus		✓					✓	✓	
Baetis	vernus									✓
Caenis	rivulorum								✓	
Centroptilum	luteolum			✓	✓	✓		✓	✓	✓
Ecdyonurus	dispar							✓	✓	✓
Ecdyonurus	torrentis	✓	✓	✓		✓	✓		✓	
Ephemera	danica	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heptagenia	sulphurea								✓	
Paraleptophlebia	submarginata		✓				✓	✓	✓	
Procloeon	pennulatum		✓			✓		✓	✓	
Rhithrogena	semicolorata	✓	✓	✓	✓	✓	✓	✓	✓	
Serratella	ignita	✓	✓	✓	✓	✓	✓	✓	✓	✓

## Summary of Adult Stonefly Results and Comments

Below is a table showing all the species of adult stoneflies that were recorded in 2017 on the Cressbrook and Litton fishing beats on the River Wye. On the same table the common or “anglers” names are also given for each species recorded.

On the page following you will find two more tables with the same list of species; one table shows the months of the year that the different species were recorded and the other table shows the fishery beats where they were found. Following this there are two more similar tables, these are particularly interesting as they show the **Ongoing Records** (combined results for 2015, 2016 and 2017).

Like with the upwings there were no adult stonefly records generated for January, February, October November and December in 2017, once again not really surprising as there will have been few club members on the river during these months to collect any samples. Oddly there were no samples collected for August in 2017 but I am sure this was just a glitch.

Genus	Species	Common Name
<i>Isoperla</i>	<i>grammatica</i>	Yellow sally
<i>Leuctra</i>	<i>geniculata</i>	Willow fly
<i>Nemoura</i>	<i>avicularis</i>	Small brown
<i>Nemoura</i>	<i>cambrica</i>	Small spring brown
<i>Nemoura</i>	<i>erratica</i>	Erratic small brown
<i>Perlodes</i>	<i>mortoni</i>	Orange-striped stonefly
<i>Protonemura</i>	<i>meyeri</i>	Common early brown
<i>Siphonoperla</i>	<i>torrentium</i>	Common small yellow sally



## 2017 Adult Stonefly Records

Genus	Species	Months Recorded											
		J	F	M	A	M	J	J	A	S	O	N	D
<i>Isoperla</i>	<i>grammatica</i>					✓	✓	✓					
<i>Leuctra</i>	<i>geniculata</i>									✓			
<i>Nemoura</i>	<i>avicularis</i>				✓								
<i>Nemoura</i>	<i>cambrica</i>				✓								
<i>Nemoura</i>	<i>erratica</i>				✓								
<i>Perlodes</i>	<i>mortoni</i>				✓								
<i>Protonemura</i>	<i>meyeri</i>			✓	✓	✓							
<i>Siphonoperla</i>	<i>torrentium</i>					✓							

Genus	Species	Fishery Beats Recorded								
		Beat 1	Beat 2	Beat 3	Beat 4	Day Ticket	Beat 5	Beat 6	Beat 7	Beat 8
<i>Isoperla</i>	<i>grammatica</i>				✓		✓		✓	
<i>Leuctra</i>	<i>geniculata</i>					✓			✓	
<i>Nemoura</i>	<i>avicularis</i>									✓
<i>Nemoura</i>	<i>cambrica</i>		✓					✓		
<i>Nemoura</i>	<i>erratica</i>		✓							
<i>Perlodes</i>	<i>mortoni</i>									✓
<i>Protonemura</i>	<i>meyeri</i>	✓	✓	✓					✓	✓
<i>Siphonoperla</i>	<i>torrentium</i>	✓								

## Ongoing Adult Stonefly Records (2015-17)

Genus	Species	Months Recorded											
		J	F	M	A	M	J	J	A	S	O	N	D
<i>Brachyptera</i>	<i>risi</i>			✓	✓	✓							
<i>Isoperla</i>	<i>grammatica</i>					✓	✓	✓					
<i>Leuctra</i>	<i>fusca</i>									✓	✓		✓
<i>Leuctra</i>	<i>inermis</i>					✓	✓						
<i>Leuctra</i>	<i>geniculata</i>								✓	✓	✓		
<i>Nemoura</i>	<i>avicularis</i>				✓	✓	✓						
<i>Nemoura</i>	<i>cambrica</i>				✓	✓	✓	✓					
<i>Nemoura</i>	<i>erratica</i>			✓	✓	✓	✓	✓	✓	✓			
<i>Nemurella</i>	<i>picteti</i>					✓	✓			✓			
<i>Perlodes</i>	<i>mortoni</i>				✓								
<i>Protonemura</i>	<i>meyeri</i>			✓	✓	✓	✓						
<i>Siphonoperla</i>	<i>torrentium</i>					✓							
<i>Taeniopteryx</i>	<i>nebulosa</i>			✓									

Genus	Species	Fishery Beats Recorded								
		Beat 1	Beat 2	Beat 3	Beat 4	Day Ticket	Beat 5	Beat 6	Beat 7	Beat 8
<i>Brachyptera</i>	<i>risi</i>		✓		✓			✓		
<i>Isoperla</i>	<i>grammatica</i>		✓		✓	✓	✓	✓	✓	✓
<i>Leuctra</i>	<i>fusca</i>	✓	✓				✓	✓	✓	
<i>Leuctra</i>	<i>inermis</i>	✓	✓							
<i>Leuctra</i>	<i>geniculata</i>					✓	✓	✓	✓	
<i>Nemoura</i>	<i>avicularis</i>	✓							✓	✓
<i>Nemoura</i>	<i>cambrica</i>	✓	✓				✓			
<i>Nemoura</i>	<i>erratica</i>	✓	✓	✓					✓	
<i>Nemurella</i>	<i>picteti</i>	✓	✓					✓		
<i>Perlodes</i>	<i>mortoni</i>								✓	✓
<i>Protonemura</i>	<i>meyeri</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Siphonoperla</i>	<i>torrentium</i>	✓	✓							
<i>Taeniopteryx</i>	<i>nebulosa</i>							✓		

## **Appendix 1:** The detailed upwing fly records

**Note:** As you look at these detailed records you will come across a group of samples with the abbreviation “sp.” in the species column. This is an indication that the collected sample could not be identified beyond genus level with the identification keys available at this time (2017). If the abbreviation “spp.” is seen then it is simply because more than one sample, from the same genus, was in question. With reference to this report all the unidentified species are from the *Baetis* genus. There are nine species from this genus here in the UK and four of these species (*Baetis vernus*, *Baetis fuscatus*, *Baetis scambus* and *Baetis buceratus*) can only be identified to full species level when you have a sample of the male imago. You will see on these records that the samples in question were not at the required imago stage (or they were female) and hence their identification stopped at the level of genus.

### Adult Mayfly Occurrence Scheme Records 2017

Genus	Species	C&L Beat Number	Date	Name of Sample Supplier	Sub-imago (dun)		Imago (spinner)		Weather	Brief Notes (when taken)
					Male	Female	Male	Female		
<i>Baetis</i>	<i>muticus</i>	5	09-May-17	Stuart Crofts	1	2	0	0	S, 12°C	Observed in early afternoon
<i>Baetis</i>	<i>muticus</i>	3	12-May-17	David Marriott	0	2	0	0	N/R	From a trout stomach
<i>Baetis</i>	<i>muticus</i>	1	20-May-17	Neil Cozens	1	0	0	0	R, 13°C	Observed in early afternoon
<i>Baetis</i>	<i>muticus</i>	7	20-May-17	Jim Playle	0	1	1	0	R, 15°C	
<i>Baetis</i>	<i>muticus</i>	7	29-Jun-17	Stuart Crofts	0	1	1	0	N/R	Light Trap from 10pm to midnight
<i>Baetis</i>	<i>muticus</i>	7	31-Aug-17	Chris Thirtle	0	0	1	0	D, 14°C	
<i>Baetis</i>	<i>muticus</i>	7	08-Sep-17	Chris Thirtle	0	0	2	0	S, 12°C	Swarming after rain
<i>Baetis</i>	<i>rhodani</i>	7	19-Mar-17	Stuart Crofts	1	2	0	0	D, W, 10°C	Observed in early afternoon
<i>Baetis</i>	<i>rhodani</i>	3	25-Mar-17	Chris Thirtle	0	1	0	0	S, 13°C	
<i>Baetis</i>	<i>rhodani</i>	2	07-Apr-17	Hilary Langan	0	1	0	0	D, 8°C	Observed in early afternoon
<i>Baetis</i>	<i>rhodani</i>	1	08-Apr-17	Stuart Crofts	1	1	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	2	08-Apr-17	Stuart Crofts	2	0	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	3	08-Apr-17	Stuart Crofts	2	0	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	4	08-Apr-17	Stuart Crofts	1	1	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	5	09-Apr-17	Stuart Crofts	0	2	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	6	09-Apr-17	Stuart Crofts	2	0	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	7	09-Apr-17	Stuart Crofts	1	1	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	8	09-Apr-17	Stuart Crofts	0	2	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	DT	09-Apr-17	Stuart Crofts	0	2	0	0	S, 16°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	2	10-Apr-17	Stuart Crofts	0	1	0	0	D, 10°C	Observed in afternoon
<i>Baetis</i>	<i>rhodani</i>	2	13-Apr-17	Chris Thirtle	0	1	0	0	D, 8°C	Observed in late afternoon
<i>Baetis</i>	<i>rhodani</i>	7	16-Apr-17	Chris Dore	0	1	0	0	N/R	Observed in late afternoon
<i>Baetis</i>	<i>rhodani</i>	8	18-Apr-17	Stuart Crofts	1	1	1	0	S, 12°C	Observed in early afternoon
<i>Baetis</i>	<i>rhodani</i>	7	22-Apr-17	Chris Thirtle	1	0	1	0	S, 10°C	Observed at midday
<i>Baetis</i>	<i>rhodani</i>	3	27-Apr-17	David Marriott	1	0	0	0	N/R	
<i>Baetis</i>	<i>rhodani</i>	3	8-May-17	Neil Cozens	0	2	0	0	D, 8°C	Cold north east wind
<i>Baetis</i>	<i>rhodani</i>	7	19-May-17	Don Stazicker	0	1	0	0	N/R	
<i>Baetis</i>	<i>rhodani</i>	1	20-May-17	Neil Cozens	0	1	0	0	R, 13°C	Observed in early afternoon
<i>Baetis</i>	<i>rhodani</i>	7	20-May-17	Jim Playle	1	2	0	0	R, 15°C	
<i>Baetis</i>	<i>rhodani</i>	1	25-May-17	Neil Cozens	0	1	0	0	S, 27°C	Observed in early afternoon

<i>Baetis</i>	<i>rhodani</i>	3	03-Jun-17	Jim Playle	0	0	1	0	N/R	
<i>Baetis</i>	<i>rhodani</i>	3	11-Jun-17	Jim Playle	1	0	0	0	N/R	
<i>Baetis</i>	<i>rhodani</i>	7	29-Jun-17	Stuart Crofts	0	1	0	0	N/R	Light Trap from 10pm to midnight
<i>Baetis</i>	<i>scambus</i>	7	29-Jun-17	Stuart Crofts	0	0	1	0	N/R	Light Trap from 10pm to midnight
<i>Baetis</i>	<i>sp.</i>	7	23-May-17	Mike Hallam	0	1	0	0	N/R	
<i>Baetis</i>	<i>sp.</i>	7	28-May-17	Chris Thirtle	0	0	0	1	D, 17°C	Observed in late morning
<i>Baetis</i>	<i>sp.</i>	2	02-Jun-17	David Marriott	0	2	0	0	N/R	Observed in early afternoon
<i>Baetis</i>	<i>sp.</i>	3	03-Jun-17	Jim Playle	0	0	0	1	N/R	
<i>Centroptilum</i>	<i>luteolum</i>	7	07-May-17	Chris Thirtle	0	0	1	0	S, 13°C	Observed in evening
<i>Centroptilum</i>	<i>luteolum</i>	7	29-Jun-17	Stuart Crofts	0	0	0	1	N/R	Light Trap from 10pm to midnight
<i>Centroptilum</i>	<i>luteolum</i>	DT	29-Jun-17	Chris Thirtle	1	0	0	0	N/R	Observed in late afternoon
<i>Centroptilum</i>	<i>luteolum</i>	3	29-Aug-17	Jim Playle	0	0	0	1	N/R	
<i>Ecdyonurus</i>	<i>torrentis</i>	5	09-May-17	Stuart Crofts	0	1	0	0	S, 12°C	Observed in early afternoon
<i>Ecdyonurus</i>	<i>torrentis</i>	2	27-May-17	Stuart Booler	0	0	1	0	N/R	
<i>Ecdyonurus</i>	<i>torrentis</i>	1	31-May-17	Neil Cozens	0	0	1	0	S, 21°C	Observed in late afternoon
<i>Ecdyonurus</i>	<i>torrentis</i>	1	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ecdyonurus</i>	<i>torrentis</i>	2	02-Jun-17	Stuart Crofts	0	0	1	0	N/R	
<i>Ecdyonurus</i>	<i>torrentis</i>	3	11-Jun-17	Jim Playle	1	0	0	0	N/R	
<i>Ecdyonurus</i>	<i>torrentis</i>	3	14-Jun-17	David Marriott	0	0	1	0	S, 18°C	Observed in evening
<i>Ecdyonurus</i>	<i>torrentis</i>	DT	29-Jun-17	Chris Thirtle	0	0	1	0	N/R	Observed in late afternoon
<i>Ephemera</i>	<i>danica</i>	8	06-May-17	Chris Thirtle	0	1	0	0	D, 12°C	
<i>Ephemera</i>	<i>danica</i>	1	10-May-17	Chris Thirtle	1	1	0	0	S, 15°C	Observed in early afternoon
<i>Ephemera</i>	<i>danica</i>	8	18-May-17	Neil Cozens	2	4	0	0	S, 16°C	Observed in early afternoon
<i>Ephemera</i>	<i>danica</i>	1	23-May-17	Mike Hallam	0	1	0	0	N/R	
<i>Ephemera</i>	<i>danica</i>	1	25-May-17	Neil Cozens	0	0	1	1	S, 27°C	Observed in early afternoon
<i>Ephemera</i>	<i>danica</i>	1	31-May-17	Neil Cozens	0	0	2	0	S, 21°C	Observed in late afternoon
<i>Ephemera</i>	<i>danica</i>	1	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	2	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	3	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	4	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	5	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	6	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	7	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	8	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	DT	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Ephemera</i>	<i>danica</i>	5	09-Jul-17	Neil Cozens	0	0	0	1	N/R	Observed at 9pm
<i>Ephemera</i>	<i>danica</i>	3	10-Aug-17	Mike Hallam	0	0	0	1	N/R	
<i>Paraleptophlebia</i>	<i>submarginata</i>	5	09-May-17	Stuart Crofts	0	1	1	0	S, 12°C	Observed in early afternoon

<i>Paraleptophlebia</i>	<i>submarginata</i>	5	18-May-17	Chris Thirtle	0	1	0	0	S, 10°C	
<i>Paraleptophlebia</i>	<i>submarginata</i>	6	09-Jun-17	David Marriott	0	1	0	0	S, 17°C	Observed in early afternoon
<i>Procloeon</i>	<i>pennulatum</i>	7	21-Jul-17	Stuart Crofts	0	1	0	0	N/R	Light Trap from 9.30pm to 11.30pm
<i>Procloeon</i>	<i>pennulatum</i>	2	29-Jul-17	Chris Thirtle	0	1	0	0	N/R	
<i>Rhithrogena</i>	<i>semicolorata</i>	6	03-Apr-17	Mike Hallam	0	1	0	0	N/R	
<i>Rhithrogena</i>	<i>semicolorata</i>	5	09-May-17	Stuart Crofts	1	0	0	0	S, 12°C	Observed in early afternoon
<i>Rhithrogena</i>	<i>semicolorata</i>	3	12-May-17	Jim Playle	2	0	0	0	N/R	
<i>Rhithrogena</i>	<i>semicolorata</i>	1	20-May-17	Neil Cozens	1	0	0	0	R, 13°C	Observed in early afternoon
<i>Rhithrogena</i>	<i>semicolorata</i>	1	25-May-17	Neil Cozens	0	0	6	2	S, 27°C	Observed in evening
<i>Rhithrogena</i>	<i>semicolorata</i>	1	31-May-17	Neil Cozens	0	0	1	1	S, 21°C	Observed in late afternoon
<i>Rhithrogena</i>	<i>semicolorata</i>	1	02-Jun-17	Stuart Crofts	1	1	1	1	N/R	
<i>Rhithrogena</i>	<i>semicolorata</i>	2	02-Jun-17	Stuart Crofts	0	0	1	0	N/R	
<i>Rhithrogena</i>	<i>semicolorata</i>	3	03-Jun-17	Jim Playle	1	0	0	0	N/R	
<i>Rhithrogena</i>	<i>semicolorata</i>	3	11-Jun-17	Jim Playle	1	0	1	0	N/R	
<i>Rhithrogena</i>	<i>semicolorata</i>	DT	29-Jun-17	Chris Thirtle	0	0	1	0	N/R	Observed in late afternoon
<i>Rhithrogena</i>	<i>semicolorata</i>	3	10-Aug-17	Mike Hallam	0	0	1	0	N/R	
<i>Serratella</i>	<i>ignita</i>	3	12-May-17	Jim Playle	1	0	0	0	N/R	
<i>Serratella</i>	<i>ignita</i>	7	29-Jun-17	Stuart Crofts	1	1	0	1	N/R	Light Trap from 10pm to midnight
<i>Serratella</i>	<i>ignita</i>	5	09-Jul-17	Neil Cozens	0	0	5	6	N/R	Observed at 9pm
<i>Serratella</i>	<i>ignita</i>	6	16-Jul-17	Hilary Langan	0	0	1	0	S, 17°C	Observed in early afternoon
<i>Serratella</i>	<i>ignita</i>	1	12-Aug-17	Neil Cozens	1	0	0	0	W, 18°C	From a trout stomach
<i>Serratella</i>	<i>ignita</i>	2	13-Aug-17	Hilary Langan	0	1	0	0	D, 14°C	Observed in late afternoon
<i>Serratella</i>	<i>ignita</i>	2	9-Sep-17	Chris Thirtle	1	0	1	0	S, 14°C	
<i>Serratella</i>	<i>ignita</i>	7	15-Sep-17	Mike Hallam	0	2	0	0	D, 14°C	Observed in late afternoon

<b>Totals</b>	43	63	48	28
	106		76	
	182			

## **Appendix 2:** The detailed stonefly records

### Adult Stonefly Occurrence Scheme Records 2017

Genus	Species	C&L Beat Number	Date	Name of Sample Supplier	Male	Female	Weather	Brief Notes (when taken)
<i>Isoperla</i>	<i>grammatica</i>	4	22-Jun-17	Stuart Crofts	0	1	N/R	
<i>Isoperla</i>	<i>grammatica</i>	5	21-May-17	Hilary Langan	0	1	N/R	
<i>Isoperla</i>	<i>grammatica</i>	7	9-Jun-17	David Marriott	0	1	N/R	
<i>Isoperla</i>	<i>grammatica</i>	5	09-Jul-17	Neil Cozens	0	3	S, 20 °C	Egg-laying female
<i>Leuctra</i>	<i>geniculata</i>	DT	07-Sep-17	Chris Thirtle	0	1	D, 12 °C	
<i>Leuctra</i>	<i>geniculata</i>	7	22-Sep-17	Mike Hallam	1	0	N/R	
<i>Nemoura</i>	<i>avicularis</i>	8	18-Apr-17	Stuart Crofts	0	1	S, 12 °C	
<i>Nemoura</i>	<i>cambrica</i>	2	10-Apr-17	S. Crofts/A. Farr	1	0	D, 10 °C	
<i>Nemoura</i>	<i>cambrica</i>	2	13-Apr-17	Chris Thirtle	0	1	N/R	Observed in late afternoon
<i>Nemoura</i>	<i>cambrica</i>	6	23-Apr-17	David Marriott	0	1	S, 15 °C	Observed in late morning
<i>Nemoura</i>	<i>erratica</i>	2	10-Apr-17	S. Crofts/A. Farr	0	1	D, 10 °C	
<i>Perlodes</i>	<i>mortoni</i>	8	18-Apr-17	Stuart Crofts	0	1	S, 12 °C	
<i>Protonemura</i>	<i>meyeri</i>	2	07-Mar-17	Chris Thirtle	0	1	D, 5 °C	Cold day
<i>Protonemura</i>	<i>meyeri</i>	7	19-Mar-17	Stuart Crofts	1	0	N/R	
<i>Protonemura</i>	<i>meyeri</i>	7	23-Mar-17	Chris Thirtle	0	1	S, 8 °C	
<i>Protonemura</i>	<i>meyeri</i>	3	25-Mar-17	Chris Thirtle	0	1	N/R	
<i>Protonemura</i>	<i>meyeri</i>	2	31-Mar-17	Paul Brown	0	1	S, 15 °C	
<i>Protonemura</i>	<i>meyeri</i>	2	10-Apr-17	S. Crofts/A. Farr	1	0	D, 10 °C	
<i>Protonemura</i>	<i>meyeri</i>	8	18-Apr-17	Stuart Crofts	0	1	S, 12 °C	
<i>Protonemura</i>	<i>meyeri</i>	8	18-Apr-17	Stuart Crofts	0	1	S, 12 °C	From a trout stomach
<i>Protonemura</i>	<i>meyeri</i>	7	22-Apr-17	Chris Thirtle	1	0	N/R	
<i>Protonemura</i>	<i>meyeri</i>	3	27-Apr-17	David Marriott	0	1	N/R	
<i>Protonemura</i>	<i>meyeri</i>	3	10-May-17	Mike Hallam	0	1	N/R	
<i>Protonemura</i>	<i>meyeri</i>	3	12-May-17	Jim Playle	0	1	N/R	
<i>Protonemura</i>	<i>meyeri</i>	1	20-May-17	Neil Cozens	0	1	N/R	
<i>Siphonoperla</i>	<i>torrentium</i>	1	25-May-17	Neil Cozens	0	1	N/R	Observed in early afternoon

Totals      5          23  
                         28



## References

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