

Riverfly Monitoring Newsletter



Asiantaeth yr
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Environment
Agency Wales

Southwest Wales – forward look for 2010

September/October 2010

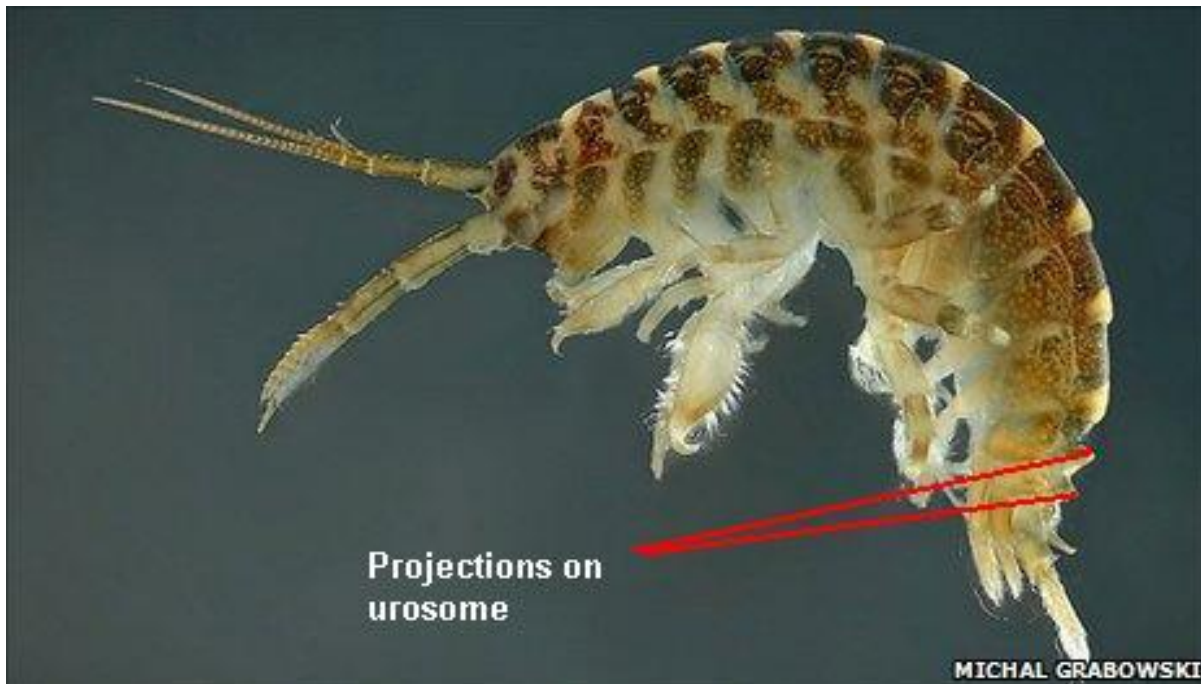
A word from your Environment Agency Co-ordinator

Many thanks to all who managed to get out during the late summer/autumn months despite the coinciding holiday season and high flows, and special thanks to those who got their data submitted in time to make this report!

As I mentioned in the last newsletter, this will be the last quarterly report compiled by myself before I head off on maternity leave on Friday 22nd October, and I'd like to take the opportunity to thank all of you who have contributed towards this project work over the past couple of years. You've all been a pleasure to work with, and the amount of hard work carried out by the volunteers has been fantastic. Several pollution issues have been identified and dealt with as a result of flylife volunteer sampling since the project in South West Wales, most of which would not have been detected without your hard work and dedication.

I'll hopefully be back next August, all being well, and in the meantime Graham Rutt will initially be your Environment Agency contact for sending results in, so you'll be in good hands!

A new threat to our rivers in the form of the "Killer Shrimp", *Dikerogammarus villosus*, has also arrived in East Anglia, and there is a danger that it could spread to other waterbodies via nets, waders and other fishing gear. Please keep an eye out for these nasty beasts when sampling...they're bigger than ordinary gammarus, generally striped, and have projections on their urosome as shown in the picture:



All the best for the coming year, and thanks again!

Nicola

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Teifi Results

We had a fantastic turnout from the Teifi group, with every single sample point being covered over the summer period...great work everyone, you've excelled yourselves!! We're also very pleased to welcome Mike Parrish, who will be covering the Tregaron area.

Teifi Group Sampling Points

Collection Point	River	Grid Reference	Monitors
1	Cych	SN249411	C. Chapman , M. Tabernacle
2	Cych	SN276359	C. Chapman , M. Tabernacle
3	Dulas, a tributary of the Mamog, a tributary of the Cych	SN244382	C. Chapman , M. Tabernacle
4	Cych	SN294361	C. Chapman , M. Tabernacle
5	Dulas, a tributary of the Ceri	SN313468	R.Harding,
6	Nant Bargod	SN358379	S.Elcomb, S.Owen
7	Nant Bargod	SN354391	S.Elcomb, S.Owen
8	Clettwr Fach	SN440483	G.Jones, I.Thomas
9	Clettwr Fawr	SN425469	G.Jones, I.Thomas
10	Clettwr	SN448436	G.Jones, I.Thomas
11	Cwerchyr	SN367446	I. Thomas
12	Nant Gran, a tributary of the Tyweli	SN437347	E.Davies, S.Jones
13	Talog, a tributary of the Tyweli	SN463376	E.Davies, S.Jones
14	Tyweli	SN422390	E.Davies, S.Jones
15	Nant Ythan, a tributary of the Cerdin	SN412428	D.F. Roberts, R.Foulkes
16	Cerdin	SN409441	D.F. Roberts, R.Foulkes
17	Cerdin	SN422416	D.F. Roberts, R.Foulkes
18	Ceri	SN324469	R.Harding
19	Teifi above Llanybydder	SN524445	Meurig Davies, Emyr Jones
20	Teifi abve Llanybydder	SN529447	Alan Davies , Emyr Jones
21	Afon Duar	SN524444	Alan Davies , Emyr Jones
22	Nant Cledlyn	SN492431	Alan Davies, Meurig Davies
23	Afon Grannell	SN534471	Meurig Davies, Emyr Jones
24	Afon Pedran	SN276358	Rob Wilson, Jez More
25	Afon Cneifa	SN269371	Rob Wilson, Jez More
26	Afon Brefi	SN667553	Cap Morris, Emyr Lake
27	Afon Teifi	SN641548	Cap Morris, Emyr Lake
28	Afon Ceri	SN318462	Andrew Thomas
29	Afon Ceri	SN344481	Andrew Thomas
30	Afon Dulas, Ceri trib	SN318462	Andrew Thomas
31	Afon Teifi	SN664572	Bryan Jones, Peter Whipp
32	Afon Teifi	SN674586	Bryan Jones, Peter Whipp

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Summer 2010 results

Cych Catchment

SUMMER 2010		COLLECTION POINT					
		1	2	3	4	24	25
CADDIS FLIES	Trichoptera - Caseless	10	20	10	10	6	18
	Trichoptera - Cased Caddis	10	>100	5	20	42	75
MAYFLIES	Baetidae, e.g. Olives	50	>100	30	100	60	70
	Ephemeridae, Mayflies	1	0	0	0	2	0
	Ephemerellidae, Blue Winged Olives	40	100	5	10	6	8
	Heptageniidae, e .g. Yellow May Dun	50	20	30	20	12	35
STONEFLIES	Plecoptera	30	20	>100	100	30	80
SHRIMPS	Gammarus	5	0	30	0	0	0
MISC	Leeches	1	0	2	0	0	0
	Snails	2	0	0	0	1	0
	Hog Louse	0	0	0	0	1	0
	Saucer Bugs/ Beetles	20b	2b	2	3	0	1
	Fish	1 eel	0	0	0	0	0
	Larvae, e.g. Damsel Fly	0	0	0	0	0	0

Results for this catchment during the summer months were generally quite good, especially for the bottom site (site 1) that had previously been suspected of suffering from a pesticide issue, but this time is showing good numbers of Gammarus, Heptageniidae and Plecoptera which are all pesticide sensitive taxa.

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Ceri Catchment

SUMMER 2010		COLLECTION POINT				
		5	18	28	29	30
CADDIS FLIES	Trichoptera - Caseless Caddis	5	0	7	0	0
	Trichoptera - Cased Caddis	15	6	20	10	10
MAYFLIES	Baetidae, e.g. Olives	60	15	70	120	30
	Ephemeridae, Mayflies	0	0	20	20	0
	Ephemerellidae, Blue Winged Olives	100	20	0	0	0
	Heptageniidae, e.g. Yellow May Dun	>100	5	20	60	30
STONEFLIES	Plecoptera	50	5	0	70	50
SHRIMPS	Gammarus	>200	15	20	0	40
MISC	Leeches	1	0	0	0	0
	Snails	1	0	0	0	0
	Hog Louse	0	0	0	0	0
	Saucer Bugs/ Beetles	5B	0	6sb	0	2
	Fish	0	0	0	0	0
	Larvae, e.g. Damsel Fly	0	0	0	0	0

This season, site 18 (Ceri u/s confluence with Dulas) was showing slightly lower invertebrate numbers than usual in general, especially Heptagenids and Stoneflies. The other sites all had a pretty typical invertebrate fauna for the time of sampling.

Environment Agency Staff are currently carrying out farm visits in the area (September 2010) as part of Water Framework Directive compliance work and carrying out spot kick sampling checks as well, so hopefully we will see an improvement in the catchment in general.

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Nant Bargod

SUMMER 2010		COLLECTION POINT	
		6	7
CADDIS FLIES	Trichoptera - Caseless Caddis	20	6
	Trichoptera - Cased Caddis	1	4
MAYFLIES	Baetidae, e.g. Olives	300	50
	Ephemeridae, Mayflies	0	0
	Ephemerellidae, Blue Winged Olives	40	50
	Heptageniidae, e. g. Yellow May	70	10
STONEFLIES	Plecoptera	200	30
SHRIMPS	Gammarus	100	20
MISC	Leeches	2	1
	Snails	0	0
	Hog Louse	0	0
	Saucer Bugs/ Beetles		20b
	Fish	1bh	5bh
	Larvae, e.g. Damsel Fly	0	0

No obvious problems shown.

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Clettwr Catchment

SUMMER 2010		COLLECTION POINT		
		8*	9	10*
CADDIS FLIES	Trichoptera -Caseless Caddis	11	45	22
	Trichoptera - Cased Caddis	0	0	0
MAYFLIES	Baetidae, e.g. Olives	19	0	190
	Ephemeridae, Mayflies	0	0	0
	Ephemerellidae, Blue Winged Olives	0	0	0
	Heptageniidae, e.g. Yellow May Dun	15	0	24
STONEFLIES	Plecoptera	15	20	25
SHRIMPS	Gammarus	5	3	40
MISC	Leeches	0	0	0
	Snails	0	0	0
	Hog Louse	0	0	0
	Saucer Bugs/ Beetles	0	0	0
	Fish	0	0	0
	Larvae, e.g. Damselfly	0	0	0

Low numbers in general across the catchment in general this season prompted an Environment Agency investigation to identify potential pollution sources.

The sample points used and biology results are documented below:

Site Number	Waterbody	Site name	NGR
1	Nant Mene	Rhydowen	SN4404945136
2	Clettwr	Rhydowen	SN4417045261
3	Clettwr Fawr	Pontsian	SN4376946156
4	Clettwr Fach	Pontsian	SN4388946209
5	Clettwr Fach	Castell Howell	SN4401848413
6	Clettwr Fach	Bridge u/s Brodawel	SN4421049188
7	Clettwr Fawr	Talgarreg	SN4254051254
8	Clettwr Fawr Trib	Talgarreg	SN4247851214
9	Clettwr Fawr	Crugyreryr Bridge	SN4237550306
10	Clettwr Fawr	Pont Porth-Rhyd	SN4254546901

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Taxa	Site number									
	1	2	3	4	5	6	7	8	9	10
BMWP 10										
<i>Mayflies</i>										
Heptageniidae	1	10	25	5	10	20	15		10	20
Ephemerelellidae	3	15	30	15	20	10	30		20	40
<i>Stoneflies</i>										
Leuctridae	40	70	40	20	20	50	40	30	40	40
Perlodidae	2	10	10			1	10	20		2
Chloroperlidae						1	10			
<i>Cased Caddis</i>										
Odontoceridae		1					1		1	
Goeridae		1								
Sericostomatidae	4	1	3			1	1		1	1
BMWP 7										
<i>Caseless Caddis</i>										
Rhyacophilidae			1	2	1	2	2	1	1	2
Polycentropodidae		1				2		2		
<i>Cased Caddis</i>										
Limnephilidae	4			1	2	2	1		1	
BMWP 6										
Gammaridae	40	10	30	10	20	5	15			15
BMWP 5										
<i>Beetles, Bugs and Fly Larvae</i>										
Elmidae		1								
Dytiscidae			10			2	5	5		5
Notonectidae								1		
Tipulidae									1	
Pediciidae					5	3			1	
Simuliidae	30	5		2		10	10		5	10
BMWP 4										
Baetidae	40	10	10	5	30	20	10	30	20	20
BMWP 3										
<i>Snails, Leeches and Hog Louse</i>										
Hydrobiidae				1						2
Glossiphoniidae			1							
Erpobdellidae			1						1	1
Asellidae		4							1	
BMWP 2										
<i>Midge larvae</i>										
Chironomidae	20	2	2	3	5	10	1		10	10
BMWP 1										
<i>Worms</i>										
Oligochaeta	2	1	1	5	10		5	1	5	3
BMWP Score	75	114	81	65	62	108	107	49	87	86
No. Taxa	11	15	13	11	10	15	15	8	14	14
ASPT	6.8	7.6	6.2	5.9	6.2	7.2	7.1	6.1	6.2	6.1

Potential pollution sources were identified on both the Clettwr Fach and Clettwr Fawr, and site visits and further investigations by Environment Management Officers have been planned as a result.

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Cwercyr

SUMMER 2010		COLLECTION POINT
		11
CADDIS FLIES	Trichoptera -Caseless Caddis	4
	Trichoptera - Cased Caddis	6
MAYFLIES	Baetidae, e.g. Olives	40
	Ephemeridae, Mayflies	0
	Ephemerellidae, Blue Winged Olives	0
	Heptageniidae, e.g. Yellow May Dun	10
STONEFLIES	Plecoptera	40
SHRIMPS	Gammarus	10
MISC	Leeches	0
	Snails	0
	Hog Louse	0
	Saucer Bugs/ Beetles	0
	Fish	0
	Larvae, e.g. Damsel Fly	0

No problems to report this quarter.

Tyweli Catchment

SUMMER 2010		COLLECTION POINT		
		12	13	14
CADDIS FLIES	Trichoptera -Caseless Caddis	5	30	23
	Caddis	2	12	3
MAYFLIES	Baetidae, e.g. Olives	35	95	400
	Ephemeridae, Mayflies	0	0	0
	Ephemerellidae, Blue Winged Olives	0	0	0
	Heptageniidae, e.g. Yellow May Dun	2	5	8
STONEFLIES	Plecoptera	13	45	21
SHRIMPS	Gammarus	6	0	1
MISC	Leeches	0	0	0
	Snails	0	0	0
	Hog Louse	0	0	0
	Saucer Bugs/ Beetles	0	0	0
	Fish	0	0	0
	Larvae, e.g. Damsel Fly	0	0	0

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No major issues this quarter, although Heptagenid numbers seem slightly down, so one to watch in the next round of sampling.

Cerdin Catchment

SUMMER 2010		COLLECTION POINT		
		15	16	17
CADDIS FLIES	Trichoptera -Caseless Caddis	5	>10	>35
	Caddis	5	>10	5
MAYFLIES	Baetidae, e.g. Olives	>20	>30	20
	Ephemeridae, Mayflies	0	3	0
	Ephemerellidae, Blue Winged Olives	10	>15	<10
	Heptageniidae, e.g. Yellow May Dun	>20	>20	5
STONEFLIES	Plecoptera	>15	>10	0
SHRIMPS	Gammarus	>30	>30	5
MISC	Leeches	>30	>30	5
	Snails	0	1	0
	Hog Louse	0	0	0
	Saucer Bugs/ Beetles	>5b	>50b	>20b
	Fish	0	0	1BH
	Larvae, e.g. Damsel Fly	0	0	0

No problems this quarter.

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Llanybydder, Lampeter and Upper Teifi sites

SUMMER 2010		COLLECTION POINT								
		19	20	21	22	23	26	27	31	32
CADDIS FLIES	Trichoptera - Caseless Caddis	40	100	40	40	50	9	7	8	0
	Trichoptera - Cased Caddis	100	50	20	10	50	13	8	159	3
MAY FLIES	Baetidae, e.g. Olives	300	40	90	300	40	140	8	47	14
	Ephemeroidea, Mayflies	0	0	0	0	0	0	0	0	0
	Ephemerelellidae, Blue Winged Olives	100	20	5	20	10	25	27	30	21
	Heptageniidae, e.g. Yellow May Dun	90	30	50	40	50	9	0	15	19
STONEFLIES	Plecoptera	400	80	30	30	50	11	3	7	13
SHRIMPS	Gammarus	20	10	1	0	10	0	8	2	0
MISC	Leeches	3	4	0	0	0	0	4	5	1
	Snails	1	1	0	0	0	0	8	0	0
	Hog Louse	0	10	0	0	0	0	0	3	1
	Saucer Bugs/ Beetles	0	0	10b	10b	0	2sb	440 sb	24	14
	Fish	1BH	2BH	*	1BH	2BH	0	2	0	1*
	Larvae, e.g. Damsel Fly	0	0	0	0	0	0	0	0	0

Site 27, on the Teifi upstream of Pont Gogoyan, showed lower numbers of Heptagenids and stoneflies than expected. Seeing as this site has historically suffered from sheep dip pollution, this is definitely one to watch for next quarter.

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Pembrokeshire results

None received this quarter

Carmarthenshire Rivers Trust Results.

Cothi Catchment Sites

Site Number	Site Name	Grid Reference	Monitors
1	Cothi at Cwrt Y Cadno	SN 6917 4413	P John, M Heckler
2	Cothi Twrch at Pumpsaint	SN 65391 40799	P John, M Heckler
3	Cothi Clydach At Cwmmawr-Du	SN 5345 3275	P John, M Heckler
4	Melindwr at Llansawel Road Bridge	SN 6187 3617	Dave Harry
5	Gorlech at Abergorlech	SN 5855 3377	Dave Harry

Summer 2010 results

Summer 2010		1	2	3	4	5
CADDIS FLIES	Trichoptera - Caseless Caddis	0	2	11	4	9
	Trichoptera - Cased Caddis	6	12	6	20	61
MAY FLIES	Baetidae, e.g. Olives	150	28	134	58	45
	Ephemeroidea, Mayflies	0	0	0	0	0
	Ephemerellidae - BWO	3	1	14	12	20
	Heptageniidae, e.g. YellowMay Dun	1	4	65	79	14
STONE FLIES	Plecoptera	12	11	76	74	64
SHRIMPS	Gammarus	0	0	0	1	0
Misc.	Leeches	0	0	0	0	0
	Snails	0	0	1	0	0
	Hog Louse	0	0	0	0	0
	Saucer Bugs/ Beetles	0	0	0	0	0
	Fish	0	0	0	0	0

The Cothi Twrch has slightly low numbers of all species in this quarters sample. This could possibly be due to high flows in the area, but if results continue to be poor then EA investigative work will be scheduled.