

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

A word from your Natural Resources Wales Co-ordinator

Firstly apologies for the unusually late release of this report, due to the bad weather earlier this autumn we didn't get many results in, so I decided to wait a few more weeks until we had more sample results to include!

After a great summer with nice low flows for survey work and glorious weather, we seem to be back in our usual pattern of a horrible wet gloomy October with high flows. As a result of the great summer, we managed to get all of our routine monitoring carried out in good time (hooray!) and are now in the lab processing all of these samples.

Here at NRW we were also saddened to hear of the death of Gethyn Thomas, the chairman of Carmarthenshire Rivers Trust. Gethyn was always very supportive of the Riverfly Partnership, and we really appreciated all of his efforts to get involved with the monitoring on the Tywi catchment. His passion and enthusiasm will be greatly missed by all of us.

Happier news, from me personally this time,, I'm expecting baby number 2 at the beginning of next year, so this will be my last Riverfly Newsletter until next Autumn. Graham Rutt will be taking over my NRW co-ordinator role until I return in October.

Finally, I'd like to wish all of our volunteers and co-ordinators a great Christmas, and a happy new year. Your tireless efforts carrying out monitoring for the projects have been greatly appreciated, and I look forward to catching up when I return!

All the best,

Nicola

Sampling during the spawning season

Riverfly Project volunteers have a special dispensation to enter rivers during the spawning season, on the basis that we know how to avoid damage to salmon redds. The winter months are an especially important time for monitoring, as we generally see the most problems with farm pollution such as slurry spills when rainfall is higher and storage tanks overtop.

A red will appear as a shallow depression or disturbed area in the substrate, and sometimes it will be fairly obvious where the spawning fish have been active.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

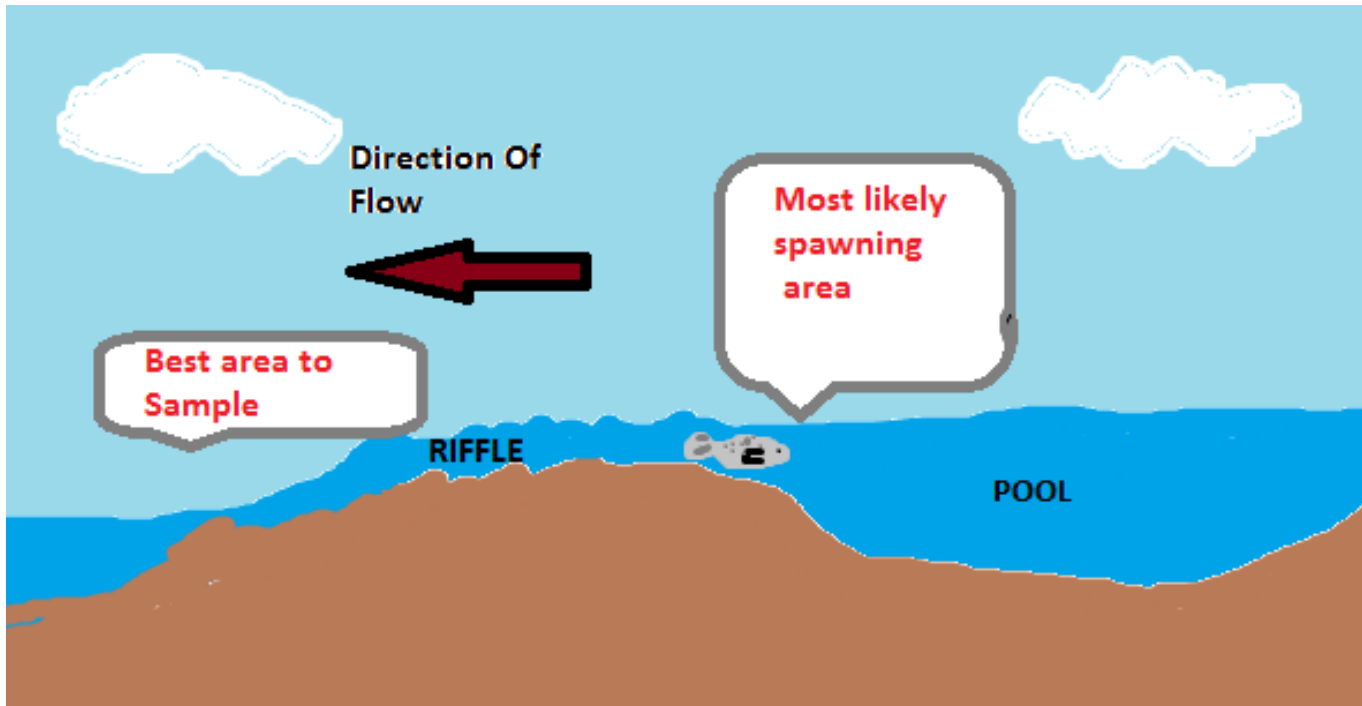


Unfortunately, redds aren't usually this easy to spot, as the substrate rapidly gets redistributed by flows, especially in the autumn when river levels tend to be high. Salmonids usually spawn at the tail end of pools (top of riffles) so avoiding this area and sticking to the lower end of riffles when kick sampling will greatly reduce chances of redd disturbance.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014



Of course, if you spot any fish eggs going into your net, then sampling must be stopped immediately!!

Health and Safety Reminder

As the high flows are back with a vengeance, I felt it was time for another sampling Health and Safety reminder. The following is taken from our own work instructions:

Drowning/Injury Risk Prevention:

You must wear an appropriate lifejacket when you are working in water:

- where the bottom is not visible;
- that is higher than knee depth;
- If there's a foreseeable risk of immersion or drowning
 - Make sure your footwear has a good grip on the soles.
 - Use a walking stick/ net pole to help you to keep your balance when walking in water.
 - It may be advisable to take a spare set of clothes.
 - Don't sample alone!

Infection Risk Prevention:

Consider wearing water-resistant gloves if you're likely to come into contact with water.

Cover any cut or graze with a waterproof dressing.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Wash and disinfect your hands after contact with water.
Avoid working near blue-green and red algae

Most importantly, if it doesn't look safe, **don't go in!!** No sample is worth risking a life for.

TRIM Results

Lower Teifi

River Name		Morgenau	Arberth
Site Name			
NGR		SN2154742948	SN2190643695
Samplers			
Conditions			
Caddis Flies	Cased Caddis	5	5
	Caseless Caddis	3	3
Mayfly nymphs	Up-wing (Ephemeridae)		
	Blue-winged Olive up-wing		
	Flat-bodied up-wing (Heptageniidae)		
	Olive up-wing (Baetidae)	9	9
Stonefly nymphs	Stonefly nymphs	7	7
Freshwater shrimps	Freshwater shrimps	1	1
Leeches	Leeches	1	1
Snails	Spire shells		
	Ramshorn		
Hoglouse	Hoglouse	1	1
Density/biomass indicator (totals)			
Other	Fish		
	Other		

Fairly low numbers of invertebrates present at both sites, which could be due to the low summer flows. The absence of Heptagenids is a bit concerning, it will be interesting to see if this issue occurs in later samples.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Middle Teifi

River Name		Cwerchyr	Gran	Talog	Tyweli
Site Name					
NGR		SN368446	SN368466	SN464376	SN442379
Samplers		Ian Thomas/ Eric Davies			
Date		26 th September 2014			
Caddis Flies	Cased Caddis	1			1
Mayfly nymphs	Caseless Caddis	5	6	10	2
	Up-wing (Ephemeridae)				
Stonefly nymphs	Blue-winged Olive up-wing				
	Flat-bodied up-wing (Heptageniidae)				
	Olive up-wing (Baetidae)	10		10	10
	Stonefly nymphs	70		90	90
Freshwater shrimps	Freshwater shrimps	5	5	10	10
Leeches	Leeches	8			3
Snails	Spire shells				
Hoglouse	Ramshorn			20	
	Hoglouse				
Density/biomass indicator (totals)					
Other		Fish			
	Other				

Heavy algae growth & sewage fungus present at site 14 (Tyweli). A few juvenile salmonids seen. Large numbers of invertebrates at site 13 (Talog).

The biology on the Gran seems very poor indeed, and the sewage fungus found on the Tyweli is also a cause for concern. In future, if anything is obviously amiss, we'd be grateful if samplers could ring our incident line immediately after the problem is discovered on 0800 807060. There can often be a delay in results getting to myself, so submitting results might not get a response in time for the problem to be dealt with.

Hopefully these poor results are due to very low summer flows and low dissolved oxygen levels and should be resolved by the next season's samples.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Middle Teifi - Llanybydder

River Name		Duar	Duar	Duar
Site Name		Llanybydder	Llanybydder	Llanybydder – 100m below ford
NGR		SN5242444391	SN5242444391	
Date sampled		28/08/14	30/09/14	30/09/14
Samplers				
Conditions				
Caddis Flies	Cased Caddis	10	2	4
	Caseless Caddis	3	10	4
Mayfly nymphs	Up-wing (Ephemeraeidae)			
	Blue-winged Olive up-wing	2		
	Flat-bodied up-wing (Heptageniidae)	5	3	1
	Olive up-wing (Baetidae)	50	11	4
Stonefly nymphs	Stonefly nymphs	60	8	3
Freshwater shrimps	Freshwater shrimps	30	5	4
Leeches	Leeches			
Snails	Spire shells	1		
	Ramshorn			
Hoglouse	Hoglouse	1		
Density/biomass indicator (totals)				
Other	Fish		1 trout fry	
	Other			
<p>Sept Comments: Duar at Llanybydder: Collection point 1 Stony glide at Ford below bridge, young fish in sample. Collection point 2 Stony glide 100m downstream from sample 1, slower flowing. Both sample areas seemed to have a lot of (what we think is) algae on the stones. We can't recall if this was the case last month too.</p>				

No major issues with these sites. The reduction in invertebrate numbers at the lower site is most likely due to the fact that a glide was sampled rather than a riffle. Riffles tend to support higher numbers and a wider range of invertebrate families than other habitats.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Upper Teifi

River Name		Brennig	Brefi	Teifi/Abercarfan	Teifi Penrallt
Site Name					
NGR					
Samplers					
Conditions					
Caddis Flies	Cased Caddis	14	11	5	40
	Caseless Caddis	19	2	22	17
Mayfly nymphs	Up-wing (Ephemeraeidae)				
	Blue-winged Olive up-wing		1		
	Flat-bodied up-wing (Heptageniidae)	71	25	20	20
	Olive up-wing (Baetidae)	56	18	4	29
Stonefly nymphs	Stonefly nymphs	32	6	9	6
Freshwater shrimps	Freshwater shrimps		8	1	5
Leeches	Leeches	3	2	4	4
Snails	Spire shells		3		1
	Ramshorn				
Hoglouse	Hoglouse		3		3
Density/biomass indicator (totals)					
Other	Fish		1 Stone loach	1 Bullhead	2 Minnows, 2 stickleback, 1 stone loach
	Other	12 midge larvae	3 Saucer bugs 4 midge larvae	1 Saucer bug	1 Saucer Bug

No major issues at any of these sites.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Rheidol

River Name		Rheidol	Rheidol
Site Name		Ty Cam	Ty Cam
Date		8/8/14	30/9/14
Samplers			
Conditions			
Caddis Flies	Cased Caddis	4	
	Caseless Caddis	3	1
Mayfly nymphs	Up-wing (Ephemeraeidae)		
	Blue-winged Olive up-wing	2	
	Flat-bodied up-wing (Heptageniidae)		
	Olive up-wing (Baetidae)	10	2
Stonefly nymphs	Stonefly nymphs	25	21
Freshwater shrimps	Freshwater shrimps		
Leeches	Leeches		
Snails	Spire shells		
	Ramshorn		
Hoglouse	Hoglouse		
Density/biomass indicator (totals)			
Other	Fish		
	Other		

Poor numbers in the September sample, this site does have a tendency to be a bit sporadic in biological quality due to releases from Cwm Rheidol reservoir immediately upstream.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Pembrokeshire results

Western Cleddau

Summer/Autumn 2014		St Catherines Bridge		Western Cleddau near Cutty Bridge		Camrose Brook	
Location code [for future interactive map]		1		2		25	
GPS		SM945198		SM941188		SM 927199	
Date		06/12/2014 2pm		06/12/2014 3.30pm		06/12/2014	
Name of Monitors		DN/JC		DN/JC		SH/JE/JCu	
Conditions						Low flows, clear water.	
Caddis Flies	Cased Caddis	B	20	B	30	A	6
	Caseless Caddis	B	20	A	6	A	5
Mayfly nymph	Up-wing (Ephemeraeidae)	-	0	-	0	-	0
	Blue-winged Olive up-wing	-	0	A	1	-	0
	Flat-bodied up-wing (Heptageniid)	B	60	B	30	-	0
	Olive up-wing (Baetidae)	B	60	B	40	B	30
Stonefly nymph	Stonefly nymphs	A	3	A	7	A	1
Freshwater sh	Freshwater shrimps	A	5	A	1	B	22
Leeches	Leeches	A	2	-	0	-	0
Snails	Spire shells/ramshorn	-	0	-	0	-	0
Hoglouse	Hoglouse	-	0	-	0	-	0
Density/biomass indicator (totals)		170		115		64	
Previous Density/biomass indicator (totals)		16.6.14 = 253		16.6.14 = 512		30.6.13 = 84	
Previous Density/biomass indicator (totals)		22.3.14 = 335		14.04.14 = 199		-	
Previous Density/biomass indicator (totals)		30.09.13 = 294		07.10.13 = 126		-	
Previous Density/biomass indicator (totals)		24.6.13 = 1074		25.6.13 = 447		-	
Previous Density/biomass indicator (totals)		16.4.13 = 434		16.4.13 = 101		-	
Previous Density/biomass indicator (totals)		26.2.13 = 103		26.2.13 = 54		-	
Previous Density/biomass indicator (totals)		26.10.12 = 558		-		-	
Previous Density/biomass indicator (totals)		9.8.12 = 1037		10.8.12 = 184		-	
Previous Density/biomass indicator (totals)		21.5.12 = 590		22.5.12 = 274		-	
Other	Fish						
	Other					3 worms.	
Comments		Profile of riverbed altered by autumnal flow rates, sample taken at maximum flow/depth. Virtually no weed. Masses of gravel in net, very silty sample, the siltiest we have ever seen!		No weed in sample area. Sample taken at just about maximum depth/flow rate. Water temperature 5C. Notable absence of silt and colour.		Nearby property owner keen to be kept informed.	

No issues with the biological quality on the main Western Cleddau, the localised silty areas are most likely to be due to the recent high flows and lots of rivers being out of bank and washing soil downstream. The result on the Camrose brook

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

doesn't look that great, we'd expect to see more Heptagenids and Stonefly nymphs at this time of year. The absence of these two families is usually indicative of organic pollution.

Eastern Cleddau

Sep-14		Syfni - Gelli Bridge		Eastern Cleddau -		Afon Wern - Tir Bach, Rhos	
Location code [for future interactive map]		12		13		14	
GPS		SN 082 195		SN 098 212		SN 12923 28476	
Date		15/09/2014		15/09/2014		19/10/2014	
Name of Monitors		RB/CB		RB/CB		JS	
Conditions		Warm and low		Warm and low		Clear, low.	
Caddis Flies	Cased Caddis	A	8	B	15	B	11
	Caseless Caddis	B	20	B	25	A	3
Mayfly nymph	Up-wing (Ephemerae)	-	0	-	0	-	0
	Blue-winged Olive up-wing	-	0	-	0	-	0
	Flat-bodied up-wing (Heptageniidae)	A	1	A	8	B	13
	Olive up-wing (Baetidae)	B	25	B	30	B	70
Stonefly nymph	Stonefly nymphs	A	4	A	8	B	15
Freshwater sh	Freshwater shrimps	B	18	-	0	-	0
Leeches	Leeches	-	0	-	0	-	0
Snails	Spire shells/ramshorn	-	0	A	3	-	0
Hoglouse	Hoglouse	-	0	B	20	-	0
Density/biomass indicator (totals)		76		109		112	
		08.08.14 = 73		08.08.14 = 178		16.07.14 = 102	
Previous Density/biomass indicator (totals)		19.6.14 = 291		19.6.14 = 255		21.5.14 = 102	
Previous Density/biomass indicator (totals)		16.5.14 = 367		16.5.14 = 270		10.7.13 = 105	
Previous Density/biomass indicator (totals)		12.03.14 = 98		12.03.14 = 397		8.5.13 = 110	
Previous Density/biomass indicator (totals)		11.12.13 = 394		11.12.13 = 185			
Previous Density/biomass indicator (totals)		20.9.13 = 357		20.9.13 = 175			
Previous Density/biomass indicator (totals)		22.7.13 = 153		22.7.13 = 89			
Previous Density/biomass indicator (totals)		21.05.13 = 260		21.05.13 = 307			
Other	Fish	2 bullheads, 1 elver.					
	Other	Approx. 50 worms, 1 black-					
Comments		Water cloudy despite no rain		A lot of algal debris.		About the same.	

No issues at any of these sites. The increased algal growth has been seen pretty much everywhere this summer due to prolonged low flows.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Nov-14		Syfni - Gelli Bridge		Eastern Cleddau -	
Location code [for future interactive map]		12		13	
GPS		SN 082 195		SN 098 212	
Date		27/11/2014		27/11/2014	
Name of Monitors		RB/CB		RB/CB	
Conditions		High flows, cold, clear.		High flows, cold, clear.	
Caddis Flies	Cased Caddis	A	9	B	70
	Caseless Caddis	B	18	A	8
Mayfly nymph	Up-wing (Ephemeraeidae)	-	0	-	0
	Blue-winged Olive up-wing	-	0	-	0
	Flat-bodied up-wing (Heptageniidae)	A	7	B	12
	Olive up-wing (Baetidae)	B	16	-	0
Stonefly nymph	Stonefly nymphs	A	2	A	9 large
Freshwater sh	Freshwater shrimps	B	15	A	1
Leeches	Leeches	A	2	-	0
Snails	Spire shells/ramshorn	A	1	A	1
Hoglouse	Hoglouse	-	0	0	0
Density/biomass indicator (totals)		70		101	
Previous Density/biomass indicator (totals)		15.09.14 = 76		15.09.14 = 109	
Previous Density/biomass indicator (totals)		08.08.14 = 73		08.08.14 = 178	
Previous Density/biomass indicator (totals)		19.6.14 = 291		19.6.14 = 255	
Previous Density/biomass indicator (totals)		16.5.14 = 367		16.5.14 = 270	
Previous Density/biomass indicator (totals)		12.03.14 = 98		12.03.14 = 397	
Previous Density/biomass indicator (totals)		11.12.13 = 394		11.12.13 = 185	
Previous Density/biomass indicator (totals)		20.9.13 = 357		20.9.13 = 175	
Previous Density/biomass indicator (totals)		22.7.13 = 153		22.7.13 = 89	
Previous Density/biomass indicator (totals)		21.05.13 = 260		21.05.13 = 307	
Other	Fish				
	Other	200 earthworms!			
Comments		Very silted gravel, had to wash many times to get clear picture.		A lot of algal debris.	

The large numbers of worms found here are related to the silt that has been washed from the river banks during recent high flows.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Nevern

Summer 2014		Brynberian - Ponsaithgarreg Bridge	
Location code [for future interactive map]		33	
GPS		By ford	
Date		21/09/2014	
Name of Monitors		SC/TC	
Conditions		Low water.	
Caddis Flies	Cased Caddis	A	5
	Caseless Caddis	B	14
Mayfly nymphs	Up-wing (Ephemeroidea)	-	0
	Blue-winged Olive up-wing	-	0
	Flat-bodied up-wing (Heptageniidae)	B	12
	Olive up-wing (Baetidae)	B	14
Stonefly nymphs	Stonefly nymphs	A	2
Freshwater shrimps	Freshwater shrimps	A	3
Leeches	Leeches	A	1
Snails	Spire shells/ramshorn	-	0
Hoglouse	Hoglouse	-	0
Density/biomass indicator (totals)			51
Previous density/biomass indicator (totals)			6.5.13 = 42
Previous density/biomass indicator (totals)			
Other	Fish		
	Other		
Comments			

No major issues.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Gwaun

Autumn 2014 River invertebrate monitoring results					
Autumn 2014		Gwaun Cilhedryn Bridge		Gwaun Llanychaer	
Location code [for future interactive map]		21		22	
GPS		SN 005348		SM 987354	
Date		28/11/2014		28/11/2014	
Name of Monitors		MT/N		MT/N	
Conditions		Good levels, clear water.		Good levels, clear water.	
Caddis Flies	Cased Caddis	A	1	A	3
	Caseless Caddis	A	2	A	1
Mayfly nymph	Up-wing (Ephemerae)	-	0	-	0
	Blue-winged Olive up-wing	-	0	-	0
	Flat-bodied up-wing (Heptageniidae)	B	16	B	16
	Olive up-wing (Baetidae)	B	20	B	20
Stonefly nymph	Stonefly nymphs	A	3	A	4
Freshwater sh	Freshwater shrimps	A	4	A	2
Leeches	Leeches	-	0	A	1
Snails	Spire shells/ramshorn	-	0	-	0
Hoglouse	Hoglouse	-	0	-	0
Density/biomass indicator (totals)		46		47	
Previous Density/biomass indicator (totals)		16.05.14 = 65		16.05.14 = 65 = 109	
Previous Density/biomass indicator (totals)		29.08.13 = 25		29.08.13 = 81	
Previous Density/biomass indicator (totals)		29.5.13 = 110		29.5.13 = 127	
Other	Fish				
	Other				
Comments					

Fairly low numbers were recorded at both sites, although this is probably due to the time of year and high flows causing the invertebrates to bury deeper into the substrate and evade capture! A good range of families were present so this isn't too much cause for concern.

Taf Results

No samples taken this quarter

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Colby Stream Results

Summer 2014 River invertebrate monitoring results					
Summer 2014 River invertebrate monitoring results		Colby HW to tidal limit GB110061030760. West tributary feeding stream through Woodland gardens		Colby HW to tidal limit GB110061030760. East tributary feeding stream through Woodland gardens.	
Location code [for future interactive map]		35		36	
GPS		SN 15538 08514		SN 15734 08194	
Date		13/08/2014		13/08/2014	
Name of Monitors		LJ/GJ		LJ/GJ	
Conditions		Low flow levels.		Low flow. Silt present on stones	
Caddis Flies	Cased Caddis	B	20	A	7
	Caseless Caddis	A	4	A	1
Mayfly nymphs	Up-wing (Ephemeraeidae)	-	0	A	1
	Blue-winged Olive up-wing	-	0	A	4
	Flat-bodied up-wing (Hepta)	A	2	A	8
	Olive up-wing (Baetidae)	B	10	A	7
Stonefly nymphs	Stonefly nymphs	B	30	A	6
Freshwater shrimps	Freshwater shrimps	B	50	A	8
Leeches	Leeches	-	0	-	0
Snails	Spire shells/ramshorn	-	0	-	0
Hoglouse	Hoglouse	-	0	-	0
Density/biomass indicator (totals)		116		42	
Previous density/biomass indicator (totals)		02.07.14 = 51		02.07.14 = 137	
Other	Fish				
	Other	Many small flatworms in sample.		Several small (unidentified) snails in sample.	
Comments		Fewer trout seen than last time sampled (July)		Huge drop in numbers of gammarus from last report in July!	

No major issues, the drop in Gammarus isn't a cause for concern as they are still present. Huge numbers of them are an indicator of slight organic pollution, so the fact that they're down to more modest quantities probably indicates an improvement in water quality.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Carmarthenshire Results

Cothi Catchment

No samples taken this quarter

Llandovery Bran Catchment - September

River Name		Crychan		Bran	
Site Name		Road Bridge		Ystradwallter	
NGR					
Samplers		Lee Lucas		Lee Lucas	
Conditions		Sunny, slow shallow flow		Sunny, good flow 12" deep	
		Category	Number found	Category	Number found
Caddis Flies	Cased Caddis	A	3	A	5
	Caseless Caddis			A	1
Mayfly nymphs	Up-wing (Ephemeroidea)				
	Blue-winged Olive up-wing				
	Flat-bodied up-wing (Heptageniidae)			B	40
	Olive up-wing (Baetidae)	A	5	B	17
Stonefly nymphs	Stonefly nymphs	B	30	B	18
Freshwater shrimps	Freshwater shrimps	A	8	A	4
Leeches	Leeches				
Snails	Snails	A	4		
Hoglouse	Hoglouse	A	3		
Density/biomass indicator (totals)		53		85	
Notes		1 bullhead fish		6 beetles	
Biological Quality					
Comments		21st Sept, 2014. Had to repeat x2 due to low flows		21st Sept, 2014. 1pm.	

Both sites looking much better than they did earlier in the year, particularly the one on the Crychan.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Llandovery Bran Catchment – October

River Name		Crychan		Bran	
Site Name		Road Bridge		Ystradwallter	
NGR					
Samplers		Lee Lucas		Lee Lucas	
Conditions		Foggy, Good flow		Foggy, Good flow, 1 foot deep	
		Category	Number	Category	Number
Caddis Flies	Cased Caddis				
	Caseless Caddis	A	1	A	1
Mayfly nymphs	Up-wing (Ephemeraidae)				
	Blue-winged Olive up-wing				
	Flat-bodied up-wing (Heptageniidae)			B	20
	Olive up-wing (Baetidae)	A	2		
Stonefly nymphs	Stonefly nymphs	A	5	B	10
Freshwater shrimps	Freshwater shrimps				
Leeches	Leeches				
Snails	Snails				
Hoglouse	Hoglouse				
Density/biomass indicator (totals)		8		31	
Notes				1 beetle	
Biological Quality					
Comments		31st October, 2014		31st October, 2014	

Low numbers found, but sensitive pollution sensitive taxa present. Again, this is most likely to be due to high flows.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Lower Tywi – September 2014

River Name		Gwili		Cwmffrwd	
Site Name		u/s Abergwili R/B		d/s Nant Y Glasdwr	
NGR					
Samplers		Lee Lucas		Lee Lucas	
Conditions		Cloudy, no coverage, steady		60% coverage, cloudy, 30%	
		Category	Number found	Category	Number Found
Caddis Flies	Cased Caddis				
	Caseless Caddis			A	2
Mayfly nymphs	Up-wing (Ephemeraeidae)				
	Blue-winged Olive up-wing			B	10
	Flat-bodied up-wing (Heptageniidae)			A	3
	Olive up-wing (Baetidae)			A	6
Stonefly nymphs	Stonefly nymphs			A	2
Freshwater shrimp	Freshwater shrimps				
Leeches	Leeches			A	2
Snails	Snails				
Hoglouse	Hoglouse				
Density/biomass indicator (totals)		0		25	
Notes		2 fish fry, 80% cover of algae,		Foul smell, 2 beetles	
Biological Quality		River totally covered with Algae. 2 kick-samples, nothing in either			
Comments		27th September, 2014		27th Sept, 2014	

The result on the Gwili is very worrying indeed, but we have sampled it since as part of our routine monitoring programme and not found any major problems, so whatever was causing the problems seems to have stopped for now.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Lower Tywi – October 2014

River Name		Pibwr		Cwmffrwd	
Site Name		U/S Cwmffrwd		d/s Nant Glasdwr	
NGR					
Samplers		Lee Lucas		Lee Lucas	
Conditions		Sunny, 30% Leaf litter,		30% Coverage, Sunny,	
		Category	Number	Category	Number
Caddis Flies	Cased Caddis				
	Caseless Caddis				
Mayfly nymphs	Up-wing (Ephemeraeidae)				
	Blue-winged Olive up-wing				
	Flat-bodied up-wing (Heptageniidae)	B	15	B	14
	Olive up-wing (Baetidae)			A	1
Stonefly nymphs	Stonefly nymphs	A	8	A	2
Freshwater shrimps	Freshwater shrimps				
Leeches	Leeches				
Snails	Snails				
Hoglouse	Hoglouse				
Density/biomass indicator (totals)		23		17	
Notes					
Biological Quality					
Comments		31st October, 2014		31st October, 2014	

Low numbers again, but the most sensitive taxa present, which is indicative of recent high flows.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Doethie catchment – September 2014

River Name		Doethie		Pysgotwr		Pysgotwr		Doethie		Doethie		Doethie	
Site Name		Above confl. Pysgotwr		Above confl. Doethie		Nant Gwernog		Blaendoethie		Doethie Fach confl. Fawr		Doethie Fawr confl. Fach	
NGR													
Samplers		Caroline Orr		Caroline Orr		Caroline Orr		Caroline Orr		Caroline Orr		Caroline Orr	
Conditions													
		Cat.	Number found	Cat.	Number found	Cat.	Number found	Cat.	Number found	Cat.	Number found	Cat.	Number found
Caddis	Cased Caddis	A	4	A	6	A	4	A	3	A	3	A	2
	Caseless Caddis	A	2	A	3	A	2	A	5	A	5	A	3
Mayfly nymphs	Up-wing (Ephemeraidae)												
	Blue-winged Olive up-wing	A	2	A	1	A	5	A	5	A	2	A	1
	Flat-bodied up-wing	B	33	B	37	B	12	B	38	B	31	B	35
	Olive up-wing (Baetidae)	A	8	A	5			A	2	A	6	A	9
Stonefly nymphs	Stonefly nymphs	B	12	A	8	B	15	B	12	A	9	B	12
Freshwater shrimps													
Leeches	Leeches												
Snails	Snails												
Hoglouse	Hoglouse												
Density/ biomass indicator (totals)		61		60		38		65		56		62	
Notes													
Biological Quality													
Comments		24th Sept,		24th Sept,		26th Sept,		26th Sept,		26th Sept,		26th Sept, 2014	

Good results for all sites, the mayfly numbers are particularly encouraging due to the acidification issues within this catchment.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Doethie Catchment – October 2014

River Name		Doethie		Pysgotwr		Pysgotwr		Doethie		Doethie		Doethie	
Site Name		Above confl. Pysgotwr		Above confl. Doethie		Nant Gwernog		Blaendoethie		Doethie Fach confl. Fawr		Doethie Fawr confl. Fach	
NGR													
Samplers		Caroline Orr		Caroline Orr		Caroline Orr		Caroline Orr		Caroline Orr		Caroline Orr	
Conditions		pH 6.91		pH 6.89									
		Cat.	Number found	Cat.	Number found	Cat.	Number found	Cat.	Number found	Cat.	Number found	Cat.	Number found
Caddis Flies	Cased Caddis	B	10	A	5	B	15	A	9	A	3	2	2
	Caseless Caddis	A	3	A	2	A	6	A	8	A	3	1	1
Mayfly nymphs	Up-wing (Ephemerae)												
	Blue-winged Olive up-wing	A	3	A	2					A	1	A	2
	Flat-bodied up-wing (Heptageniidae)	B	47	B	54	B	86	A	1	B	35	B	45
	Olive up-wing (Baetidae)	A	2	A	6	A	1			A	8	B	20
Stonefly nymphs	Stonefly nymphs	A	6	B	18	B	29	B	37	B	10	B	25
Freshwater shrimps													
Leeches	Leeches												
Snails	Snails												
Hoglouse	Hoglouse												
Density/ biomass indicator (totals)		71		87		137		55		60		95	
Notes													
Biological Quality		Limneus Volckmari		Elmis Aenea		Prolific Sample!!! 8 Elmis Aenea, 3 Limneus		Alderfly larvae		Heron seen feeding in pools around Blaendoethie!!!		Heron seen feeding in pools around Blaendoethie!!!!	
Comments		27th October,		27th October,		31st October,		31st October,		29th October,		29th October,	

Again, good numbers of mayflies at the majority of sites, indicating improvements in acidification levels in the catchment. The only exception is the Blaendoethie site, which is right at the top of the catchment and more prone to acid episodes.

Riverfly Monitoring Newsletter

Southwest Wales

November 2014

Loughor Results

River Name		Gwili		Lliw	
Site Name		Hendy Road Bridge		Kingsbridge	
NGR					
Samplers		James Dunckley		James Dunckley	
Conditions					
		Category	Number	Category	Number
Caddis Flies	Cased Caddis	A	2		
	Caseless Caddis	B	10	A	1
Mayfly nymph	Up-wing (Ephemeraidae)				
	Blue-winged Olive up-wing	A	5		
	Flat-bodied up-wing (Heptageniidae)	A	8		
	Olive up-wing (Baetidae)	A	6	B	20
Stonefly nymph	Stonefly nymphs				
Freshwater sl	Freshwater shrimps	A	5	A	40
Leeches	Leeches	A	1		
Snails	Snails	A	2		
Hoglouse	Hoglouse				
Density/biomass indicator (totals)					
Notes					
Biological Quality		1 x 3 spined stickleback			
Comments		23/04/2014		16/11/2014	

The result on the Lliw doesn't look very good, hopefully this is just due to the recent very high flows. It will be interesting to see the results for this site under normal flow conditions.