

Extended Riverfly Groups Field Recording Form

Site name:

Grid reference:



Recorder name(s):



The ARMI 8 groups

Survey dates:

Season: April

May

June

July

August

September

1	Flatworms						
2	Freshwater Snails						
3	Limpets						
4	Bivalves						
5	Aquatic Worms						
6	Leeches						
7	Crayfish						
8	Water Hoglouse						
9	Freshwater Shrimps						
10	Invasive Non-Native Shrimps						
11	Mayflies - Angler's Curse						
12	Mayflies - Olives						
13	Mayflies - Prong Gilled						
14	Mayflies - Flatbodied						
15	Mayflies - Green Drake						
16	Mayflies - Blue-Winged Olive						
17	Stoneflies						
18	Dragonflies and Damselflies						
19	Water Boatmen						
20	Other Water Bugs						
21	Water Beetles (Adults and Larvae)						
22	Alderflies						
23	Caseless Caddisflies - Green Sedge						
24	Caseless Caddisflies - Net Spinners						
25	Caseless Caddisflies - Non-Gilled						
26	Cased Caddisflies - Hood Case-Maker						
27	Cased Caddisflies - Weighted Case-Maker						
28	Cased Caddisflies - Bush Tailed Caddisfly						
29	Cased Caddisflies - Other						
30	Craneflies						
31	Blackflies						
32	Non-Biting Midges						
33	Water Snipe Flies						

ARMI 8 group trigger:

ARMI 8 group score:


Survey notes:

Information about the Riverfly database
and scoring systems is given overleaf

Submitting Your Data

Dave Gurnell (Cartographer Studios Ltd) has recently developed an Extended Riverfly database within the software package Cartographer. Cartographer automatically calculates the existing ARMI 8-group score and the two new Extended Riverfly indices.

14. Mayflies - Flatbodied



0

Water Quality Score -

Silt and Flow Score -


ARMI Score -

Water Quality Score 18

Silt and Flow Score 20

ARMI Score 5

15. Mayflies - Green Drake



1

Water Quality Score 3

Silt and Flow Score 2

ARMI Score 1

See the Riverfly website for updates on the Cartographer database and how to enter your data.

ARMI 8 Group Scores

The first page of this recording form has boxes to note ARMI 8 group scores. ARMI 8 group score is calculated by assigning 1, 2, 3 or 4 to each of the 8 scoring groups based on their abundance categories:

1-9	individuals	score 1
10-99	individuals	score 2
100-999	individuals	score 3
1,000+	individuals	score 4

The sum of these scores is the ARMI 8 group score.

Note: Trigger values remain based on ARMI 8 group scores.

Extended Riverfly Scores

Two scoring systems for the Extended Riverfly Groups will be calculated by the online database.

- Water Quality Score** allocates scores from -4 to +4 depending on the abundances of each each group. It summarises the organic pollution and general degradation status of samples.
- Silt and Flow Score** is similar but allocates scores from -2 to +5 depending on the abundances of each group. It summarises the siltation and flow stress status of samples.

Note: Crayfish (Group 7) and Invasive Non-Native Shrimps (Group 10) are excluded from both scores.

Extended Riverfly groups	Abundance:	Water Quality Score				Silt and Flow Score			
		1-9	10-99	100-999	1000+	1-9	10-99	100-999	1000+
1 Flatworms		1	1	1	1	2	0	-1	-2
2 Freshwater Snails		1	1	1	1	2	0	-1	-2
3 Limpets		2	2	2	2	2	3	4	5
4 Bivalves		1	1	1	0	2	0	-1	-2
5 Aquatic Worms		1	0	0	-3	2	0	-1	-2
6 Leeches		1	1	0	0	2	0	-1	-2
7 Crayfish		-	-	-	-	-	-	-	-
8 Water Hoglouse		1	0	0	-4	2	0	-1	-2
9 Freshwater Shrimps		1	1	1	1	2	3	4	5
10 Invasive Non-Native Shrimps		-	-	-	-	-	-	-	-
11 Mayflies - Angler's Curse		2	2	2	2	2	0	-1	-2
12 Mayflies - Olives		1	2	2	2	2	3	4	5
13 Mayflies - Prong Gilled		3	3	3	3	2	3	4	5
14 Mayflies - Flatbodied		3	4	4	4	2	3	4	5
15 Mayflies - Green Drake		3	3	3	3	2	3	4	5
16 Mayflies - Blue-Winged Olive		3	3	3	3	2	3	4	5
17 Stoneflies		4	4	4	4	2	3	4	5
18 Dragonflies and Damselflies		2	2	2	2	2	0	-1	-2
19 Water Boatmen		1	1	1	1	2	0	-1	-2
20 Other Water Bugs		2	2	2	2	2	0	-1	-2
21 Water Beetles (Adults and Larvae)		2	2	2	2	2	0	-1	-2
22 Alderflies		1	1	1	1	2	0	-1	-2
23 Caseless Caddisflies - Green Sedge		3	3	3	3	2	3	4	5
24 Caseless Caddisflies - Net Spinners		2	2	2	2	2	3	4	5
25 Caseless Caddisflies - Non-Gilled		3	3	3	3	2	3	4	5
26 Cased Caddisflies - Hood Case-Maker		2	3	3	3	2	0	-1	-2
27 Cased Caddisflies - Weighted Case-Maker		3	3	3	3	2	3	4	5
28 Cased Caddisflies - Bush Tailed Caddisfly		3	3	3	3	2	3	4	5
29 Cased Caddisflies - Other		2	3	3	3	2	3	4	5
30 Craneflies		2	2	2	2	2	3	4	5
31 Blackflies		2	2	2	1	2	3	4	5
32 Non-Biting Midges		0	0	-4	-4	2	0	-1	-2
33 Water Snipe Flies		3	3	3	3	2	3	4	5



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