

# 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Invasive Non-Native Shrimps						
11	Mayflies - Angler's Curse						
12	Mayflies - Olives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Mayflies - Prong Gilled						
14	Mayflies - Flatbodied	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Mayflies - Green Drake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Mayflies - Blue-Winged Olive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Stoneflies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Dragonflies and Damselflies						
19	Water Boatmen						
20	Other Water Bugs						
21	Water Beetles (Adults and Larvae)						
22	Alderflies						
23	Caseless Caddisflies - Green Sedge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	Caseless Caddisflies - Net Spinners						
25	Caseless Caddisflies - Non-Gilled						
26	Cased Caddisflies - Hood Case-Maker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	Cased Caddisflies - Weighted Case-Maker						
28	Cased Caddisflies - Bush Tailed Caddisfly						
29	Cased Caddisflies - Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 -

15. Mayflies - Green Drake



1

Water Quality Score 3

Silt and Flow Score 2

ARMI Score 1

**Water Quality Score** 18

**Silt and Flow Score** 20

**ARMI Score** 5

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

