



Who's who in riverfly monitoring?

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There are a variety of different riverfly monitoring schemes available. They are all important, but serve different purposes. The schemes are complimentary, so it is not a case of one or the other.



The Detector



The Preventor

Anglers Riverfly Monitoring Initiative (ARMI)

SmartRivers (Riverfly Plus)

Who runs the scheme?



Salmon & Trout Conservation
KEEPING OUR WATERS WILD - EST 1903

How often will I need to monitor?

Usually **once a month**, following a one day training course

Twice a year (spring and autumn), following the collection of a one year professional benchmark and completion of two day training courses

What analysis is required?

Bankside analysis: Invertebrates grouped into categories and estimates of abundance made. Extended Riverfly does include identification of more groups, but is not to species-level

Microscope analysis: Invertebrates are preserved in alcohol, and identified to species-level away from the river

How will the data be used?

Data is submitted online and compared against set threshold values, **acting as a detector for gross pollution incidents** and alerting the local Environment Agency

Species data is used to calculate pressure scores for flow, sediment, phosphorus, organic pollution and chemicals, to **identify what and where problems are**. S&TC will then work with you and the regulator to address and **prevent these pressures**

Riverfly Plus

SmartRivers comes under the umbrella of advanced riverfly monitoring known as Riverfly Plus, which includes other schemes such as Extended Riverfly. Extended Riverfly is an extension of ARMI, that still takes place bankside, but includes more invertebrate taxa (33 groups). This can give you a basic indication of flow and sediment pressure, although discussions to incorporate other indexes are ongoing.

Riverfly Census

The Riverfly Census was a project lead by S&TC professionally sampling and analysing invertebrates to species level. Rivers across England and Wales were surveyed to generate a national baseline of river health and pinpoint the subtle stresses damaging our river systems. To continue and expand the project, S&TC developed SmartRivers, taking the Riverfly Census process and making it accessible for volunteers.

To find out more: www.riverflies.org
www.salmon-trout.org/smart-rivers