

## Protecting and restoring your river

Words: Tim Jacklin. Illustration: Rob Burns

iver restoration often mentioned in these pages and is the ultimate aim of the Wild Trout Trust and many other organisations. Restoration is not only about making improvements for fish and wildlife, but finding solutions that are accepted by the local community and landowners and which will work in the long term. The natural processes of erosion, sediment transport and deposition make rivers dynamic, constantly changing systems. It is important to understand and work with these processes for projects to be successful.

Rivers are made by their catchments – if the catchment is healthy, floods and droughts are moderated and sediment delivery, erosion and deposition occur at natural

rates. Catchments with lots of concrete and tarmac, or few trees and lots of land drainage generate higher flood peaks (andlowerdroughtflows) which can be quickly transmitted downstream in channelized rivers. Re-establishing the natural floodplain connection and function should be a priority for restoration projects, particularly in light of climate change.

Whist there are many approaches to restoration, the following pages illustrate some common problems and solutions. Most of these are within the reach of angling clubs and community groups. Remember, the key points for success are to set clear goals; agree these with all involved; work with the river's natural processes and plan for future monitoring and maintenance.

## RE-ESTABLISHING THE RIPARIAN ZONE

PROBLEM: Unrestricted livestock access, overgrazing and bank trampling is widening and shallowing the channel, preventing the growth of varied riparian vegetation which shades the river, provides trout cover and over-wintering habitat, binds the banks and buffers against land use impacts.

*SOLUTION:* Stock-proof fencing set well back from the river and drinking points. Work with land managers to minimise land use impacts.



## SOFT BANK REVETMENT

PROBLEM: Excessive rate of soil erosion creates steep, unstable banks.

*SOLUTION:* Various soft revetment techniques using brushwood, Christmas trees, willow spiling, etc. to slow flow, encourage silt deposition and vegetation and slow the rate of erosion. It also provides good habitat for juvenile trout and riverflies.

NB: More stable, vertical earth banks can be valuable for nesting birds (kingfisher, sand martin); leave these sites alone – take advice if unsure.



www.wildtrout.org Salmo Trutta 49

