

Client: University of Exeter
Source: Western Daily Press (Late City) (Main)
Date: 10 February 2014
Page: 7
Reach: 26053
Size: 389cm2
Value: 1470.42

One West landscape where water's wanted

BY MIKE BYRNE
wdnews@b-nm.co.uk

Restoration of peat bogs on Exmoor has resulted in a third less water leaving the moorland during heavy rainfall compared with three years ago, a new study shows.

South West Water and its partners are in the process of restoring the peat bogs of Exmoor, which had previously been drained.

By blocking up drainage ditches, the moorland can now hold more water and release it more slowly, reducing potential flooding elsewhere and improving water quality.

In order to evaluate whether the restoration programme has been successful so far, Professor Richard Brazier and his team of researchers at the University of Exeter were tasked with monitoring the hydrology, water quality and carbon storage within two experimental sites located on Exmoor.

The team installed state-of-the-art equipment which relays data from over 200 monitoring points on the moorland every 15 minutes to record changes in water table levels alongside a number of sites to monitor water quality and greenhouse gas releases from the peat.

The data has been collected for over three years and is just starting to show the preliminary effects of moorland restoration.

Extrapolated across the whole 2,000 hectares of restored moorland – which is the 2015 target for the Exmoor Mires Project – the results indicate that the amount of storm water running off the moorland into rivers has reduced by a third, the equivalent of more than 6,630 Olympic swimming pools.

Prof Brazier said: "Across the experimental site we are

seeing a rise in water table levels of up to 2.65cm that can be attributed to the ditch blocking and moorland restoration.

"This enhanced water storage could, when replicated across the whole of Exmoor, provide a significant buffer against downstream flooding in rivers like the Exe.

"Whilst these results are preliminary and need to be viewed in the context of the very dry summer and very wet winter that we are experiencing, they suggest that moorland restoration may have a vital role to play in changing the flow regimes of the rivers in the South West and building more resilient landscapes to mitigate future climate change."

South West Water is funding the £2.2 million work to restore 2,000 hectares of peat bog on Exmoor between 2010 and 2015 with contributions and support from the Environment Agency, Exmoor National Park Authority and Natural England.

It is part of the water company's Upstream Thinking initiative.

200

The number of monitoring points used by the researchers on Exmoor



In order to evaluate whether the restoration programme has been successful so far, researchers were tasked with monitoring the water across the moor

Client: University of Exeter
Source: Western Daily Press (Late City) (Main)
Date: 10 February 2014
Page: 7
Reach: 26053
Size: 389cm2
Value: 1470.42



PICTURE: RICHARD AUSTIN

South West Water and its partners are in the process of restoring the peat bogs of Exmoor, which had previously been drained