## **SPECIAL AREA OF CONSERVATION**

Nutrient-poor waters of Llyn Cwellyn and the Afon Gwyrfai, support one of largest and most diverse the populations of floating water-plantain anywhere in Britain.

**Designated species and habitats:** 



**Atlantic salmon** 



**European Otter** 

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**Clear standing waters** with vegetation of the Littorelletea uniflorae (shoreweed)



**Floating water-plantain** Luronium natans



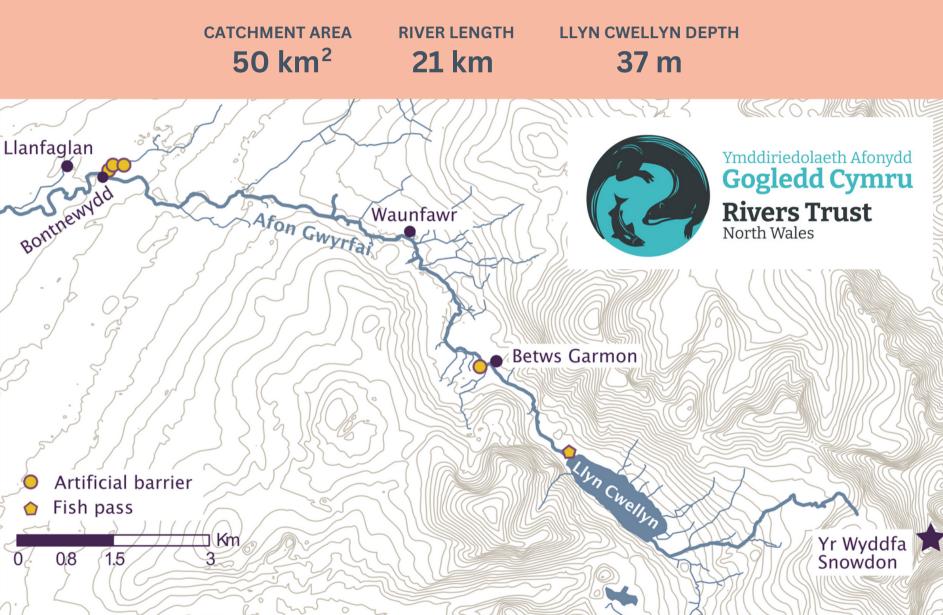
Watercourses with water crowfoot vegetation

The aim is to achieve favourable conservation status for these species and habitats, which means that they are able to thrive sustainably.

Currently, only the bottom two features are in favourable condition. However, the last survey was done 16 years ago.

## AFON GWYRFAI A LLYN CWELLYN

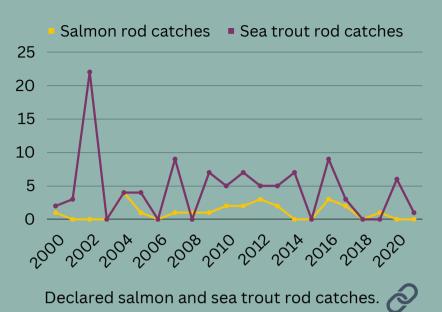
Afon Gwyrfai is a small, montane river typical of north-west Wales. Its source drains the flanks of Yr Wyddf and passes through Llyn Cwellyn, a deep glacial lake formed during the last Ice Age. Llyn Cwellyn is home to one of three native Welsh populations of Arctic charr - 'Torgoch'.  $\mathcal{O}$ 



A small dam at Llyn Cwellyn built in 1979 supplies water to parts of Gwynedd and Anglesey. A fish pass enables fish to migrate upstream of the dam. The Gwyrfai upstream of the reservoir and its tributaries provide important spawning habitat for both salmon and trout.



## **FISH POPULATIONS AT RISK**



Salmon populations are depleted and at risk. This is unlikely to change in the near future according to projections for 2026 by NRW. Q

## **RIVER HEALTH**

The health of our rivers is assessed using a range of ecological and chemical indicators. Under the Water Framework Directive, a river can be classified as High, Good, Moderate, Poor or Bad. High means close to natural conditions.

Afon Gwyrfai is in good overall and ecological health, but in bad chemical 🔊 health.



It passed its phosphorus targets.



Current **pressures on water quality** include runoff from disused slate guarries and Llyn Cwellyn has historically suffered from acidification, but more recent trends are not known.