



**Cyfoeth
Naturiol**
Cymru
**Natural
Resources**
Wales



Statws Presennol y Teifi | Current Status of the Teifi

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Environmental Reporting Team Leader**

Cyfarwyddeb Fframwaith Dŵr ac Ardaloedd Cadwraeth Arbennig Water Framework Directive and Special Areas of Conservation

“The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017

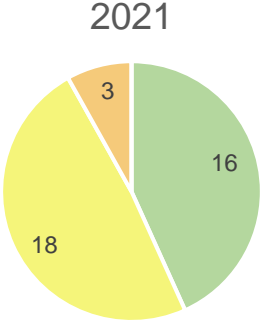
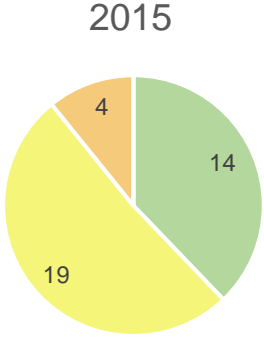
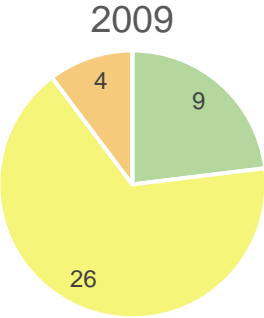
13. (2) For surface water bodies, the objectives are to—
- (a) ...prevent deterioration...
 - (b)...Achieve good ecological and chemical status
 - (d)...progressively reduce pollution from priority substances and aim to cease or phase out emissions, discharges and losses of priority hazardous substances.
- 6) For each protected area...achieve compliance with any standards and objectives required by or under any EU instrument under which the area or body is protected
- (7) Where two or more objectives set under this regulation apply to the same body of water, or the same part of a body of water, the most stringent objective applies.”

Cyfarwyddeb Fframwaith Dŵr ac Ardaloedd Cadwraeth Arbennig | Water Framework Directive and Special Areas of Conservation



Teifi – Statws Ecolegol y Gyfarwyddeb Fframwaith Dŵr 2009 – 2021 Cyrff dŵr afon

Teifi – Water Framework Directive Ecological Status 2009 – 2021 River water bodies



■ High ■ Good ■ Moderate ■ Poor ■ Bad

■ High ■ Good ■ Moderate ■ Poor ■ Bad

■ High ■ Good ■ Moderate ■ Poor ■ Bad



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Teifi – Dosbarthiad Efen y Gyfarwyddeb Fframwaith Dŵr 2021 Cyrff dŵr afonydd

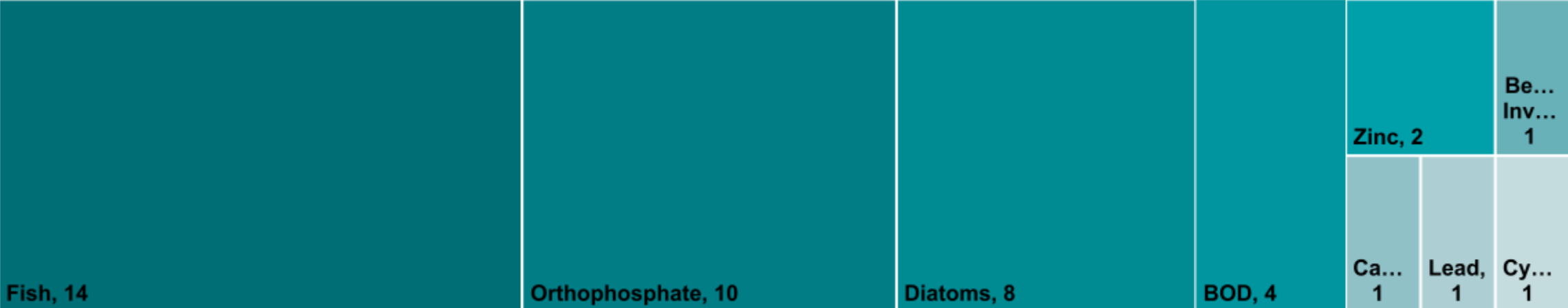
Teifi – Water Framework Directive Element Classification 2021 River water bodies

Element results (Chemicals combined)

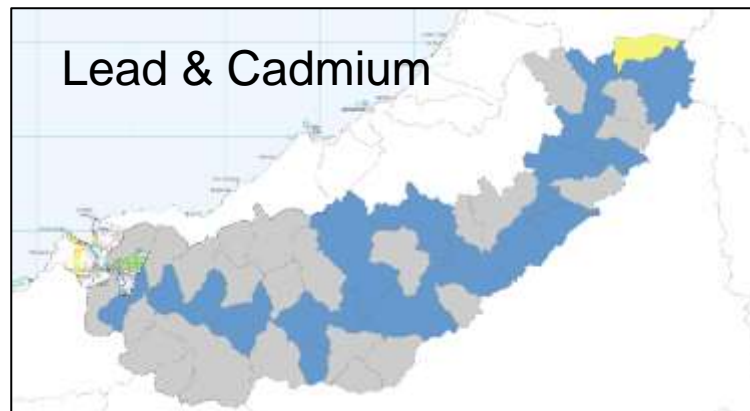
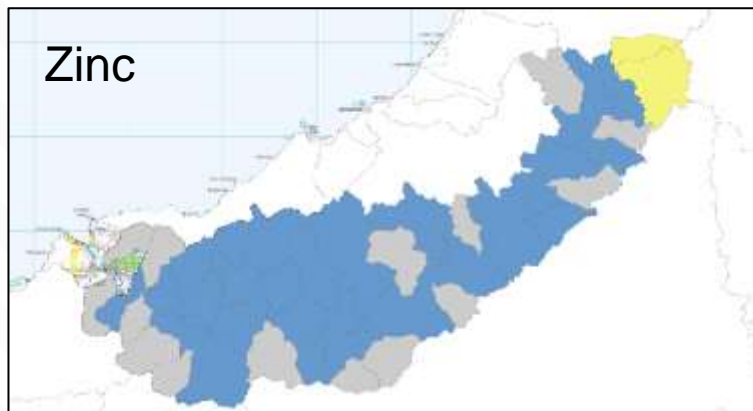
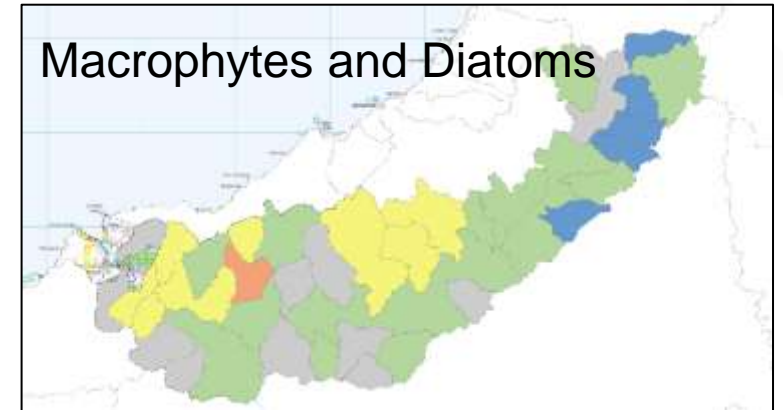
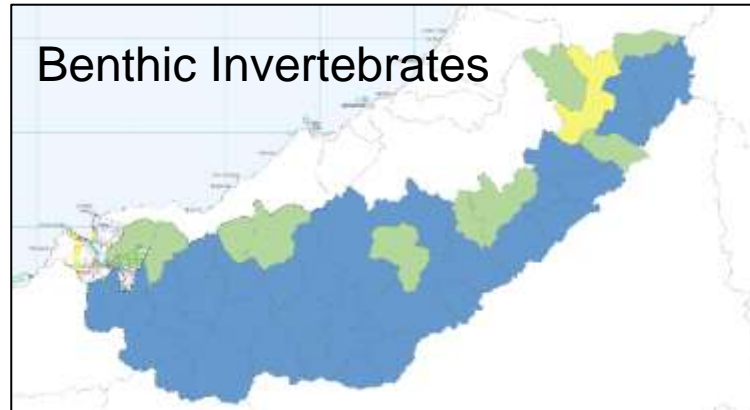
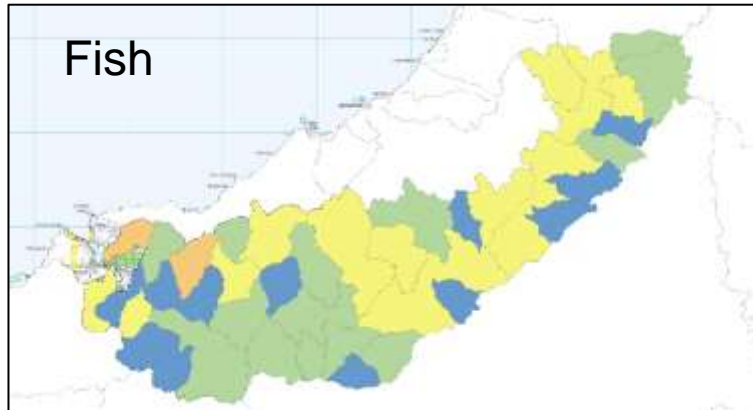
■ High ■ Good ■ Moderate ■ Poor ■ Bad



2021 Teifi River water bodies failing elements



Teifi – Dosbarthiad Elfennau'r Gyfarwyddeb Fframwaith Dŵr 2021 | Teifi – Water Framework Directive Element Classification 2021



Cydymffurfiaeth Ansawdd Dŵr ACA y Teifi | Teifi SAC Water Quality compliance

SAC Water quality parameters

■ Not assessed ■ Pass ■ Fail



SAC Water quality failing parameters

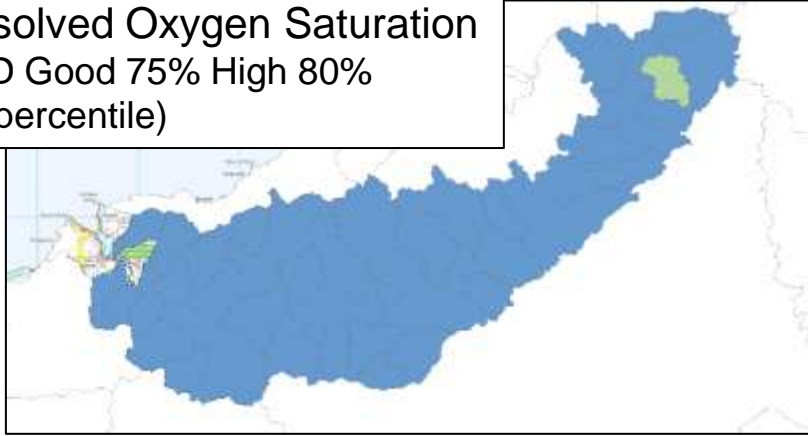
■ DO ■ BOD ■ Total Ammonia ■ Unionised Ammonia ■ pH ■ ANC ■ TDI ■ Orthophosphate



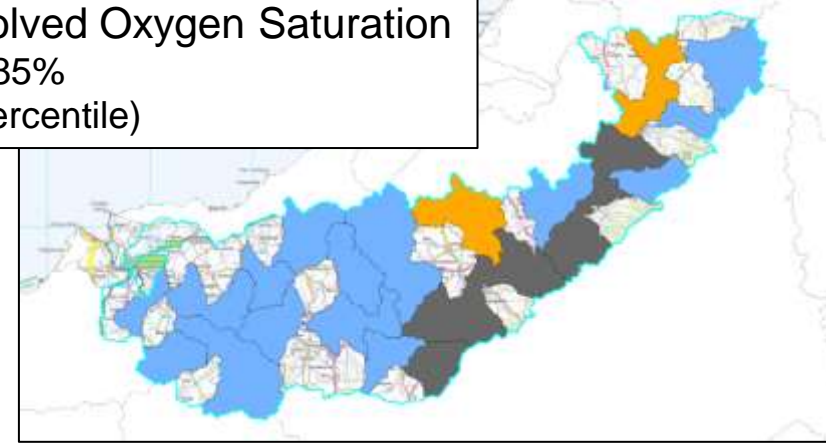
CFD & ACA Y Galw Ocsigen Toddedig ac Ocsigen Biocemegol | WFD & SAC Dissolved Oxygen and Biochemical Oxygen Demand

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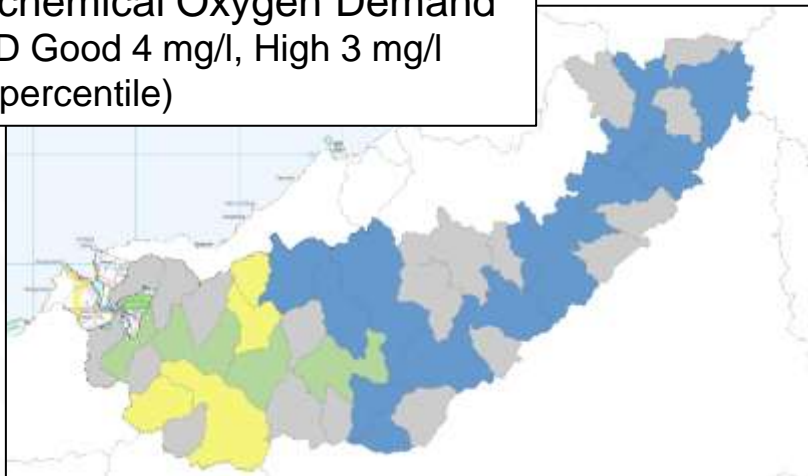
Dissolved Oxygen Saturation
WFD Good 75% High 80%
(10 percentile)



Dissolved Oxygen Saturation
SAC 85%
(10 percentile)



Biochemical Oxygen Demand
WFD Good 4 mg/l, High 3 mg/l
(90 percentile)

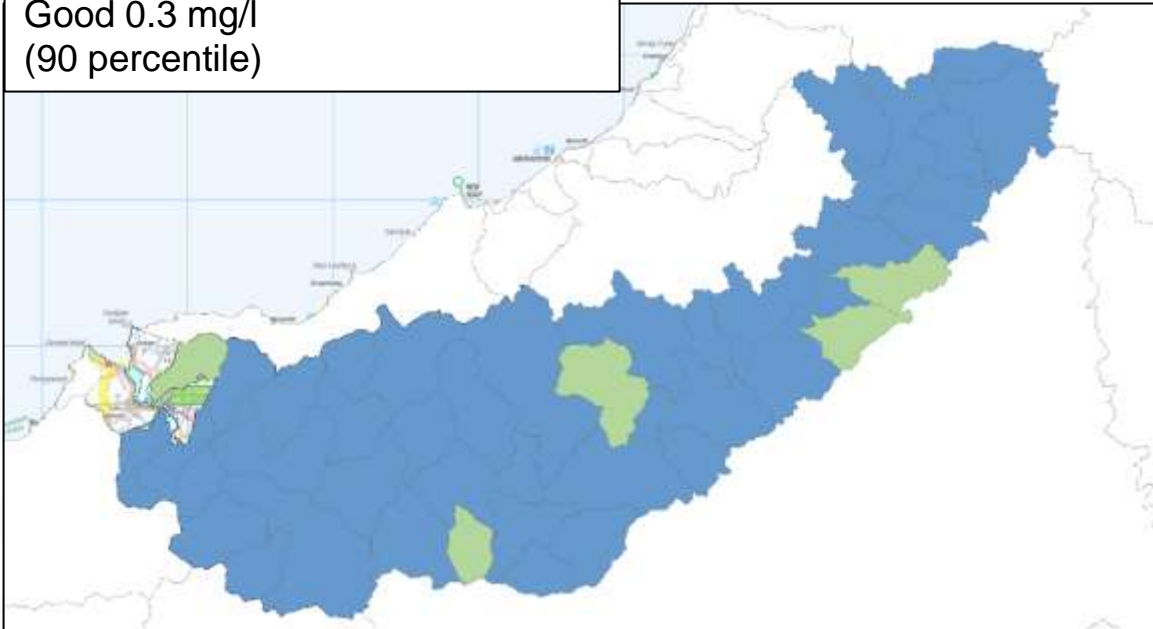


Biochemical Oxygen Demand
SAC 1.5 mg/l
(mean)

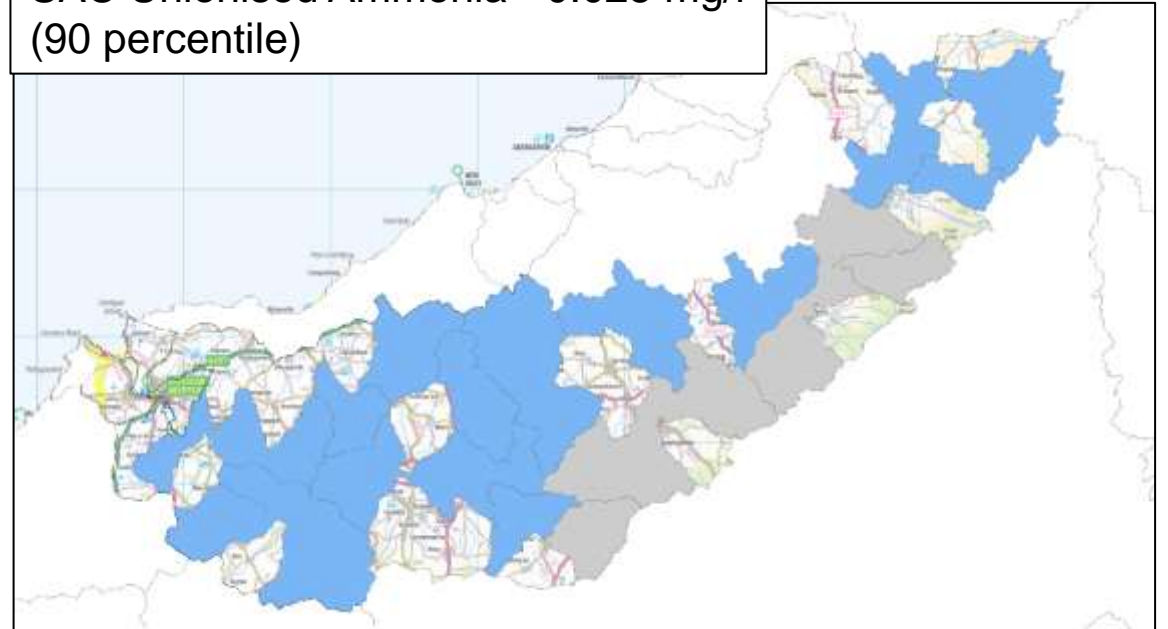


Amonia CFD ac ACA | WFD and SAC Ammonia

WFD Total Ammonia as N
High 0.2 mg/l
Good 0.3 mg/l
(90 percentile)

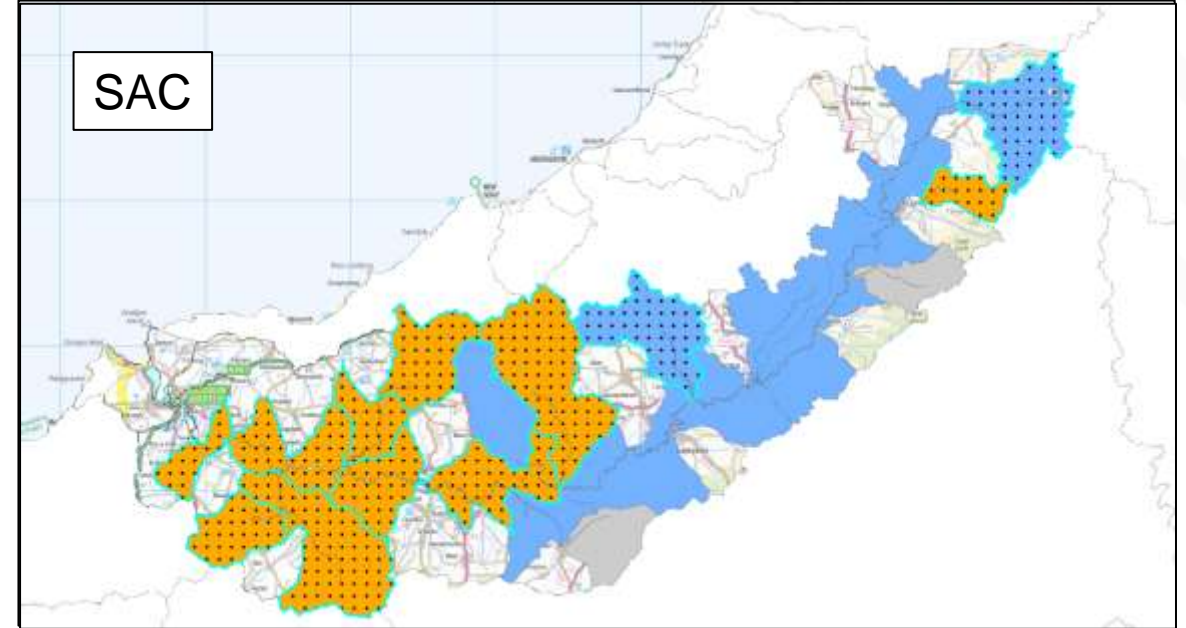
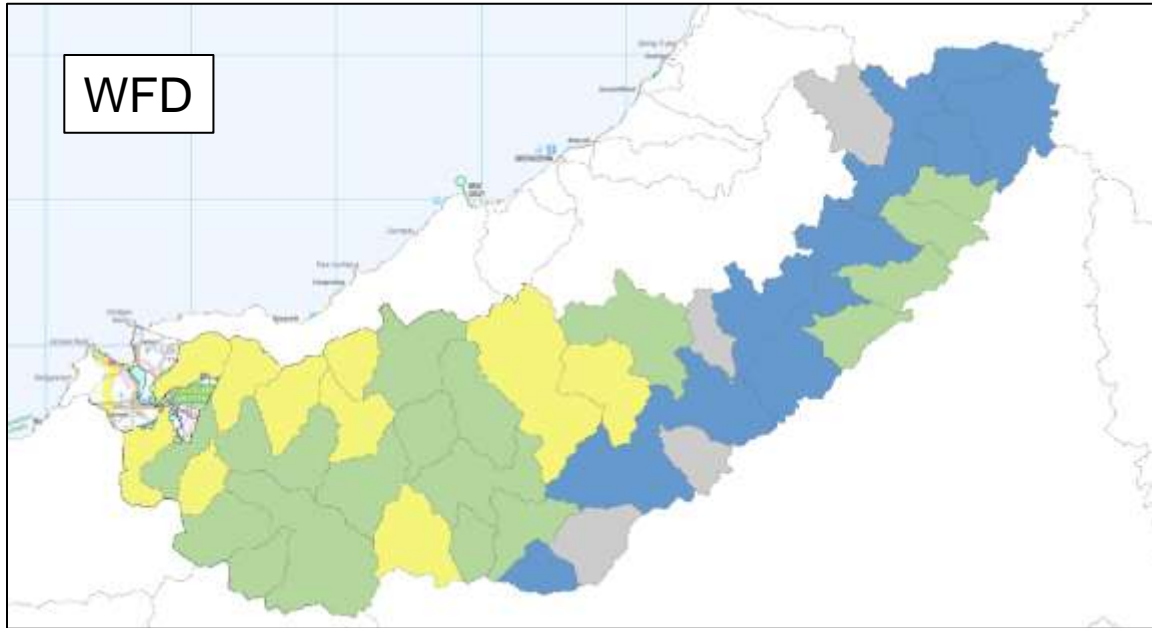


SAC Total Ammonia as N – 0.25 mg/l
SAC Unionised Ammonia - 0.025 mg/l
(90 percentile)



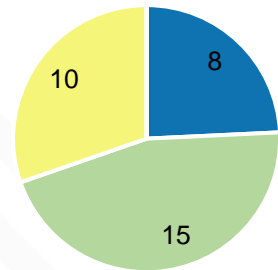
Cydymffurfiad Orthophosphate | Orthophosphate Compliance

WFD standards and SAC targets calculated per water body



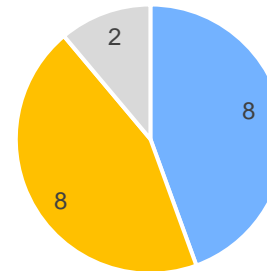
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WFD Orthophosphate 2021



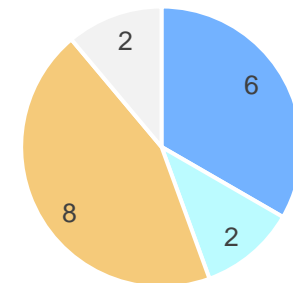
■ High ■ Good ■ Moderate ■ Poor ■ Bad

SAC Orthophosphate 2021



■ Comply ■ Fail ■ Not assessed

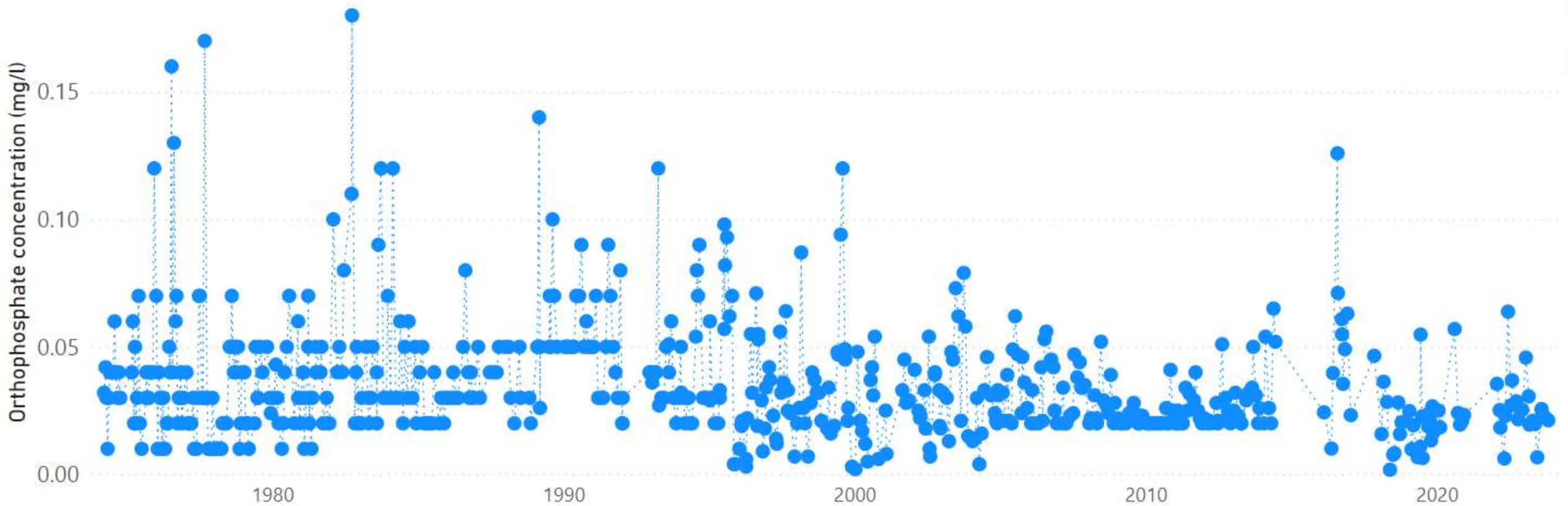
Orthophosphate compliance with confidence



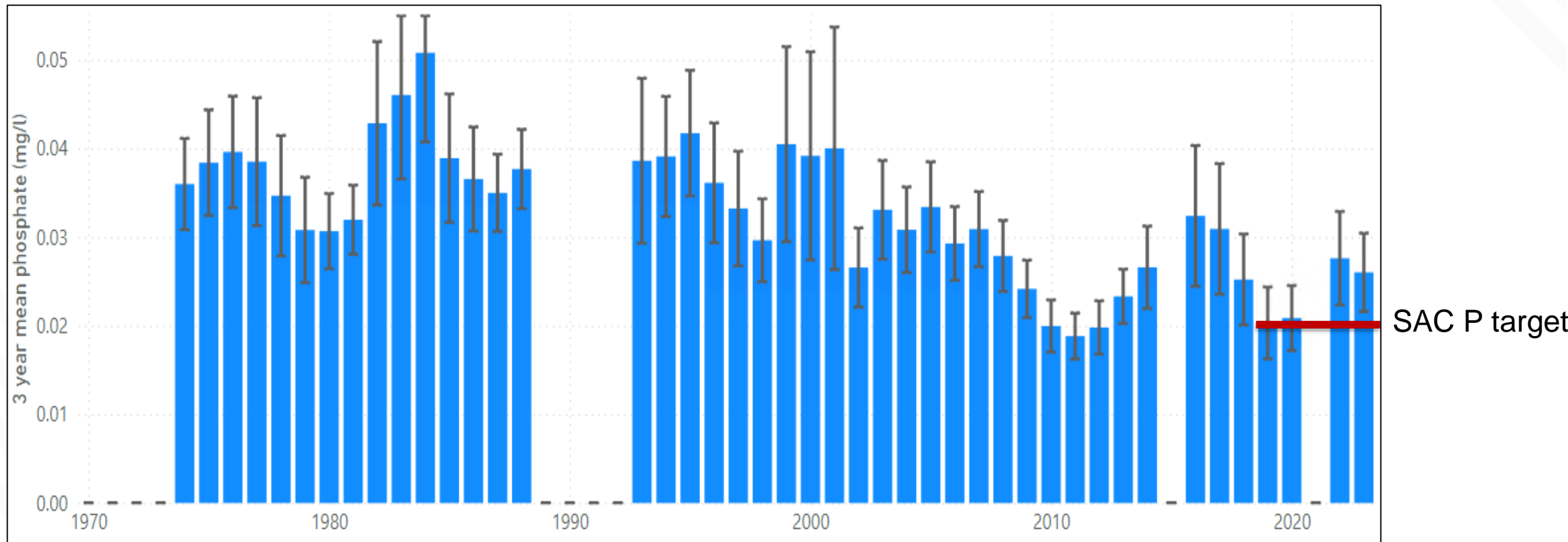
■ certain pass
■ uncertain pass
■ uncertain fail
■ Not assessed

Teifi ym Mhont Lechryd Orthophosphate mg l^{-1} P. 1974 – 2022 | Teifi at Llechryd Bridge Orthophosphate mg l^{-1} P. 1974 - 2022

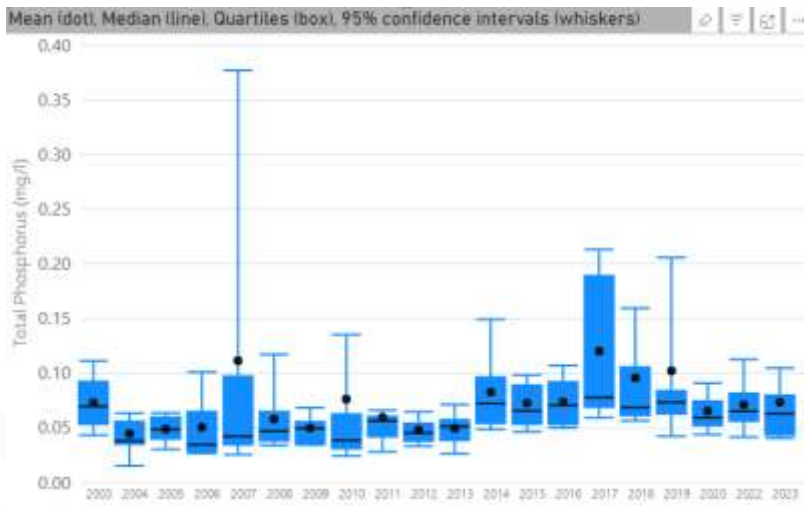
Station Number ● 34401



Cymedr 3 blynedd | 3 year means



Cymedr Blynyddol | Annual Means



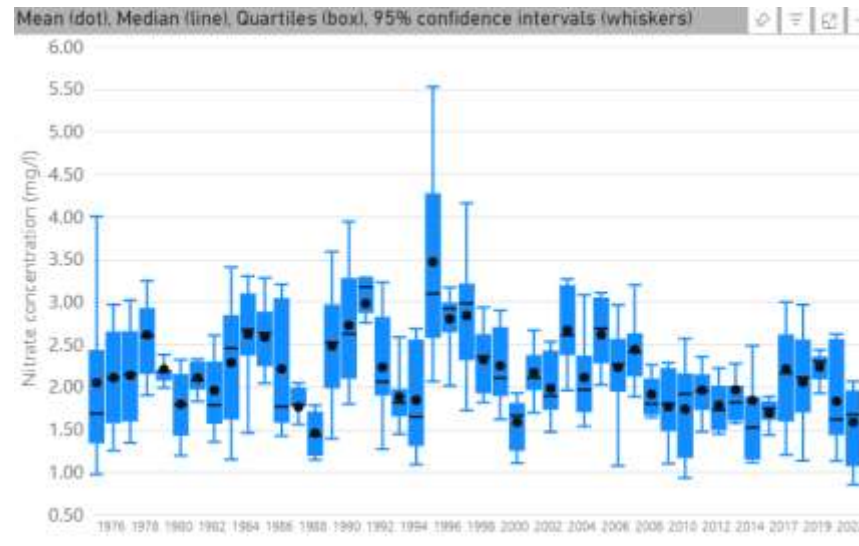
Total Phosphorus $\text{mg l}^{-1}\text{P}$.

[Open in Power BI](#)

KiWQM Water Quality

Data as of 22/11/23, 05:21

Filtered by **SAC Name** (is Afon Teifi / River Teifi), **WFD_River** (is GB110062043563 - Teifi - Afon Ceri to estuary), **Parameter Number, Name** (is 0348, Phosphorus, Total as P), **Display Name** (is TEIFI LLECHRYD ROAD BRIDGE/34401), **Station Name** (is not (Blank)), **Parameter Name** (is not (Blank))



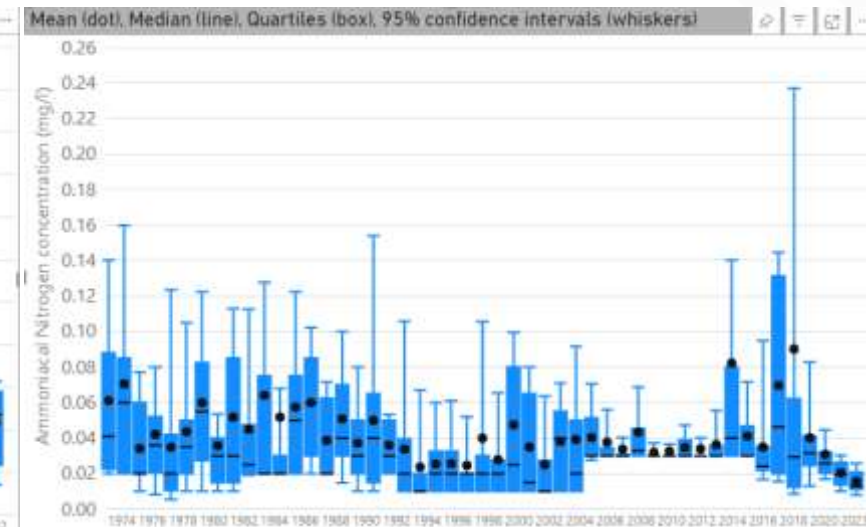
Nitrate $\text{mg l}^{-1}\text{N}$.

[Open in Power BI](#)

KiWQM Water Quality

Data as of 22/11/23, 05:21

Filtered by **SAC Name** (is Afon Teifi / River Teifi), **WFD_River** (is GB110062043563 - Teifi - Afon Ceri to estuary), **Parameter Number, Name** (is 0117, Nitrate as N), **Display Name** (is TEIFI LLECHRYD ROAD BRIDGE/34401), **Station Name** (is not (Blank)), **Parameter Name** (is not (Blank))



Total Ammoniacal Nitrogen $\text{mg l}^{-1}\text{N}$
WFD EQS = 0.3mg l^{-1}

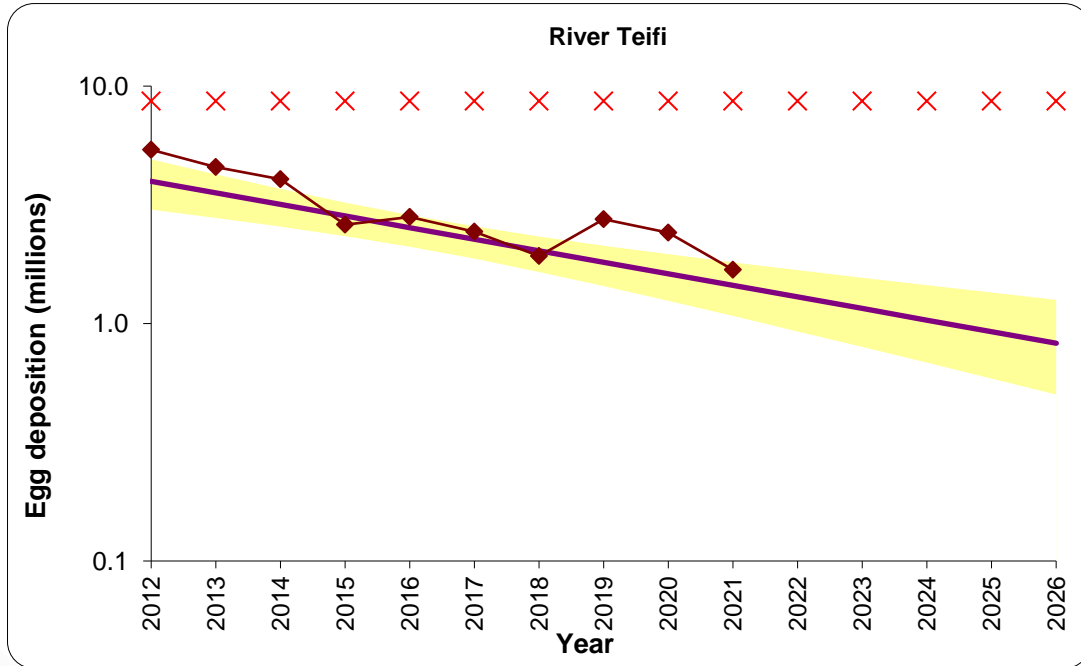
[Open in Power BI](#)

KiWQM Water Quality

Data as of 22/11/23, 05:21

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Pysgodfeydd y Teifi | Teifi fisheries



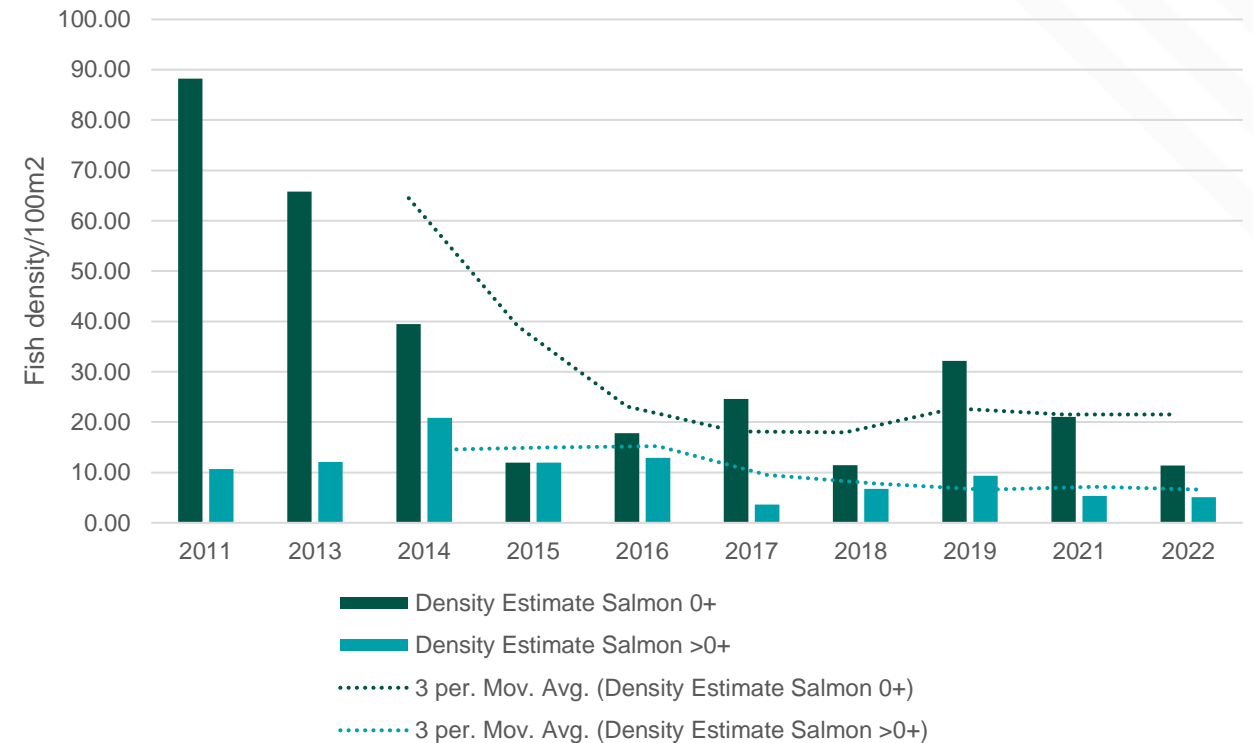
Salmon Egg Deposition. The minimum egg deposition target for the Teifi is set at 8.65 million eggs, represented by the red crosses on the graph

Current number of eggs being deposited puts stocks - **at risk**.

In 5 years' time the predicted status of salmon stocks will be - **at risk**.

Based on current and future trends, the Teifi salmon stock will continue to **decline**

Teifi Juvenile Salmon Densities 2011-2022



Juvenile salmon densities recorded at the annual monitoring sites on the River Teifi have shown a downward trend in the last 8 years,

Aber Teifi | Teifi Estuary



Overall status Moderate
Ecological Status Moderate
Eco – Biological Good
(Saltmarsh – uncertain)
Eco – Phys-chem Moderate
DIN – Dissolved Inorganic nitrogen
Chemical Status High

Safleodd a Warchodir ar gyfer ACA a SoDdGa Teifi 2020 | Teifi SAC & SSSI Features

Protected Sites Baseline Assessment 2020

SAC Feature name	Indicative condition	Confidence
Atlantic Salmon - <i>Salmo salar</i>	Unfavourable	High
Brook Lamprey - <i>Lampetra planeri</i>	Favourable	Low
Bullhead - <i>Cottus gobio</i>	Unknown	Unknown
Clear-water lakes or lochs with aquatic vegetation and poor to moderate nutrient levels	Favourable	High
Floating Water-plantain - <i>Luronium natans</i>	Favourable	High
Otter - <i>Lutra lutra</i>	Unfavourable	Medium
River Lamprey - <i>Lampetra fluviatilis</i>	Favourable	Low
Rivers with floating vegetation often dominated by water-crowfoot	Unfavourable	Medium
Sea Lamprey - <i>Petromyzon marinus</i>	Unfavourable	Medium

SSSI Feature name	Indicative condition	Confidence
a blackfly - <i>Simulium morsitans</i>	Favourable	Medium
Afon Teifi at Cenarth - Fluvial geomorphology	Favourable	High
Afon Teifi at Cors Caron - Fluvial geomorphology of Wales	Favourable	Low
Assemblage of RDB and/or Nationally Scarce and/or Atlantic-Western British bryophytes	Unknown	Unknown
Atlantic Salmon - <i>Salmo salar</i>	Unfavourable	High
Breeding bird assemblage of lowland open waters and their margins	Favourable	High
Brook Lamprey - <i>Lampetra planeri</i>	Favourable	Low
Brown Hairstreak - <i>Thecla betulae</i>	Unknown	Unknown
Bullhead - <i>Cottus gobio</i>	Unknown	Unknown
Cetti's Warbler - <i>Cettia cetti</i> - Breeding	Unknown	Unknown
Club-tailed Dragonfly - <i>Gomphus vulgatissimus</i>	Unfavourable	Medium
Cornish Moneywort - <i>Sibthorpia europaea</i>	Unfavourable	Low
Floating Water-plantain - <i>Luronium natans</i>	Favourable	High
Hybrid Pondweed - <i>Potamogeton x olivaceus</i>	Unknown	Unknown
Marshy grassland	Unknown	Unknown
Multi-fruited River Moss - <i>Cryphaea lamyana</i>	Unknown	Unknown
Other: Marginal/inundation	Unknown	Unknown
Otter - <i>Lutra lutra</i>	Unfavourable	Medium
River Lamprey - <i>Lampetra fluviatilis</i>	Favourable	Low
Running water	Unfavourable	Medium
Sea Lamprey - <i>Petromyzon marinus</i>	Unfavourable	Medium
Semi-natural woodland	Unknown	Unknown
Spotted Sedge - <i>Carex punctata</i>	Unknown	Unknown
Standing water	Favourable	High
Swamp	Unknown	Unknown
Toadflax Leaf Beetle - <i>Chrysolina sanguinolenta</i>	Unfavourable	Medium
Water Sedge - <i>Carex aquatilis</i>	Unknown	Unknown

