

Tillage Farming and Water Quality

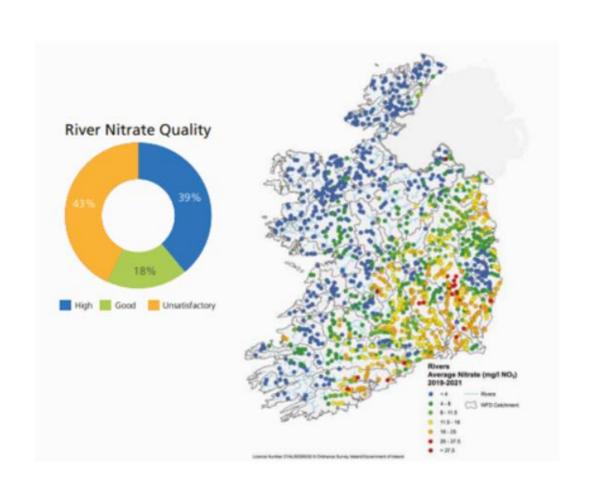


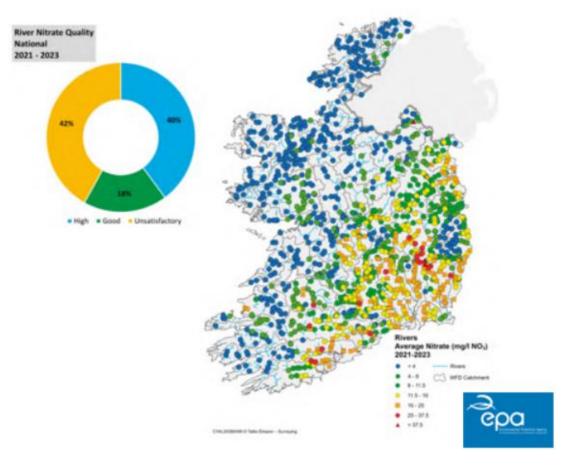
Water Quality in Ireland 2007 - 2023



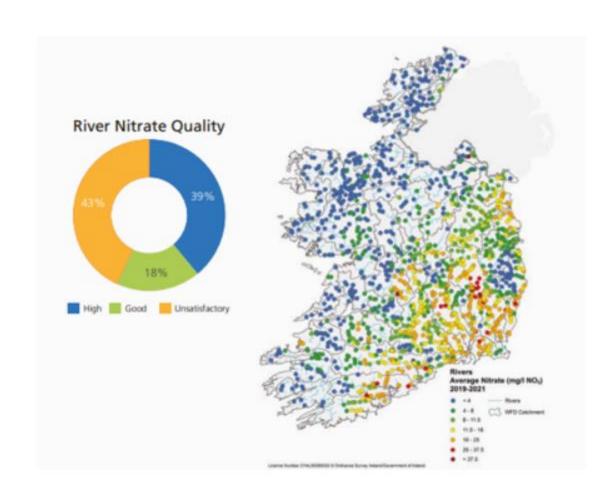


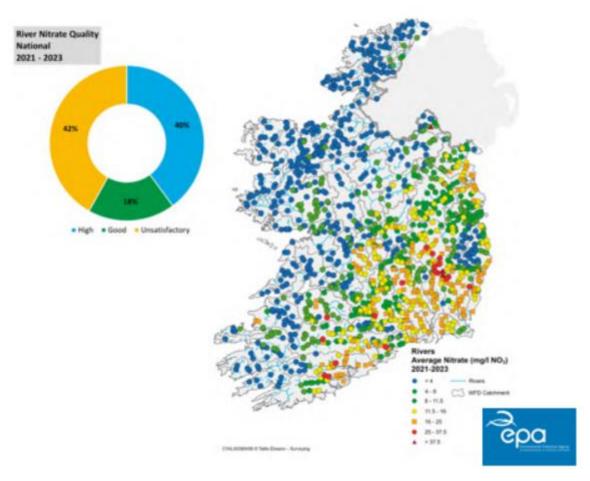
River Nitrate Quality 2021 V 2023



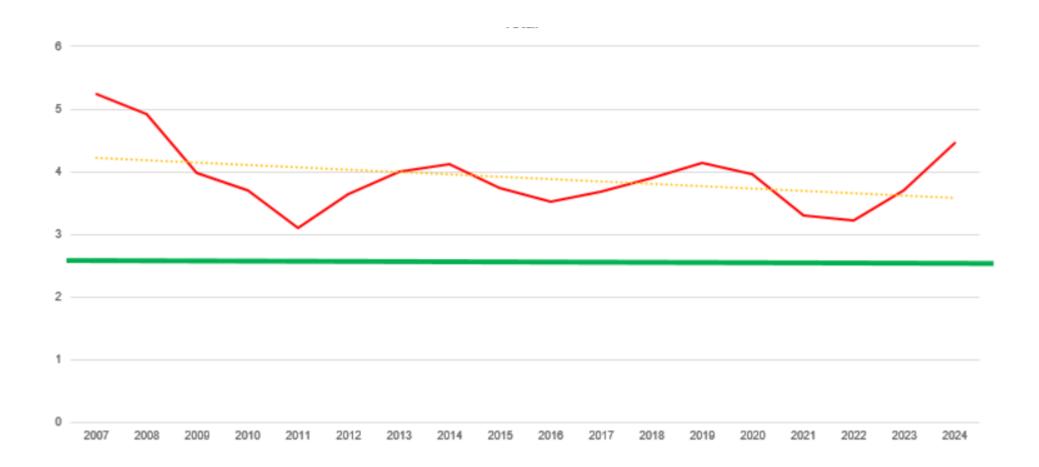


River Phosphate Quality 2021 v 2023



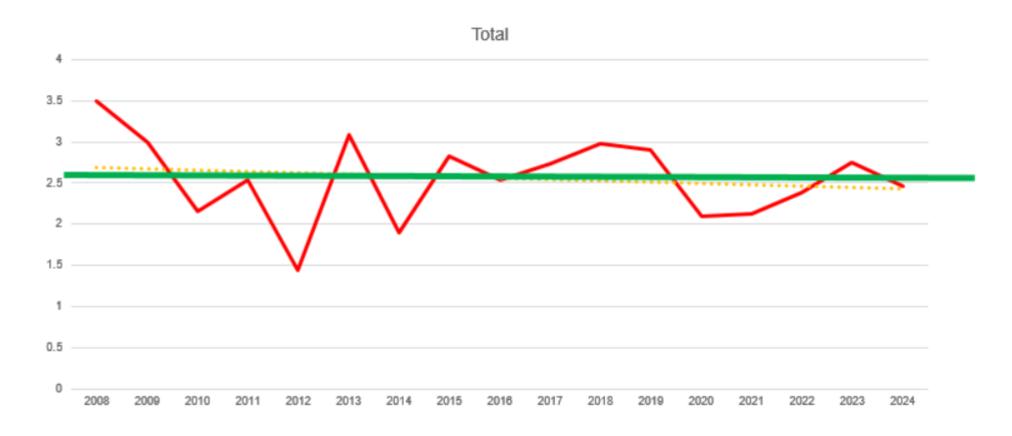


Oxidised nitrogen in Slaney River





Oxidised nitrogen in Barrow





Effects of high Nitrate in water

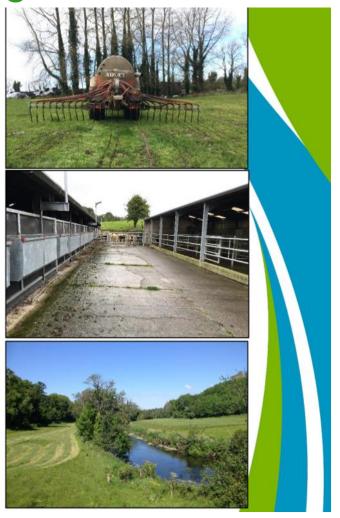


BETTER Farming for Water Campaign –

8 Actions for Change

8-Actions for Change







Why cover crops?

UK trial on cover

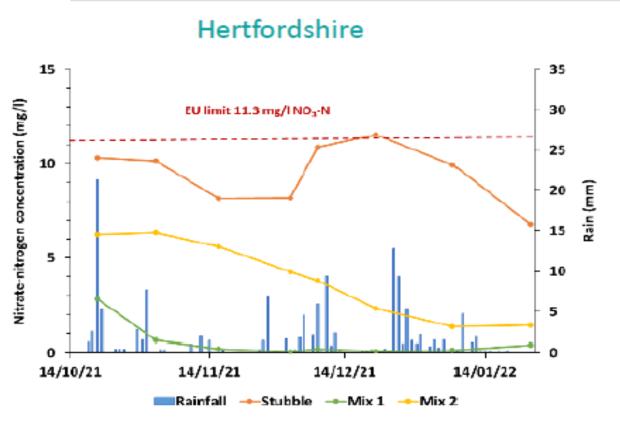
Treat.	Cover crop (drilled 6/9/21 or 13/8/21)
1	No cover: weedy stubble
2	Mix 1 – Phacelia (20%) & Oil Radish (80%) @ 15 kg/ha
3	Mix 2 – Japanese oats (45%), Buckwheat (45%), Phacelia (10%)@ 40kg/ha
Spring crop	

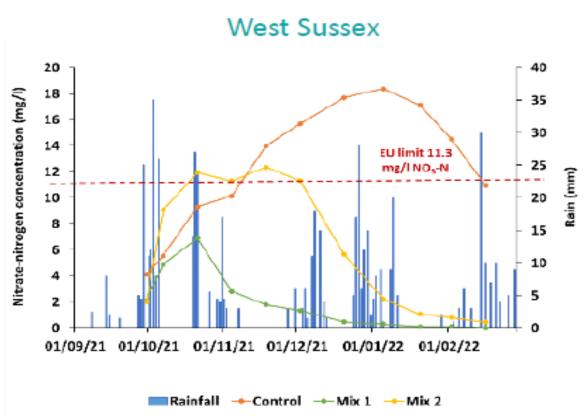


Nitrate concentrations in drainage water



Nitrate concentrations in drainage water





Main issues with cover crops







Riparian Margins





Sediment in Carlow river







Sediment runoff







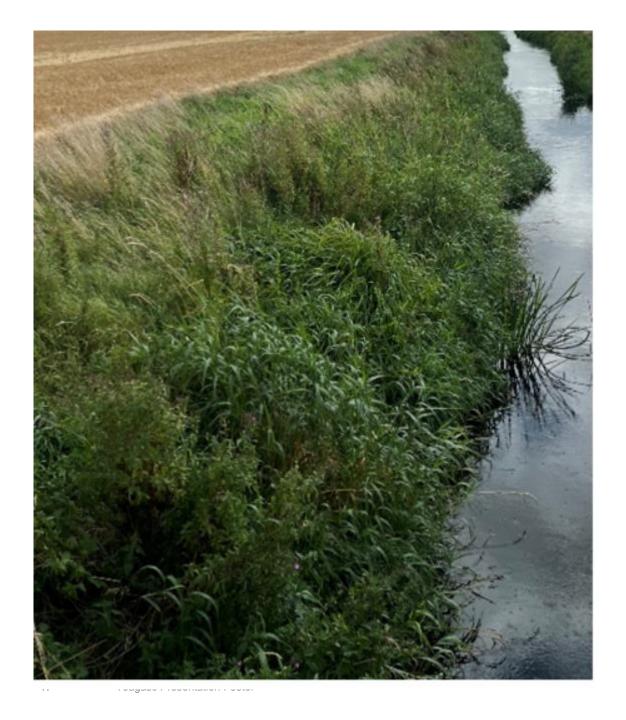
Sediment runoff













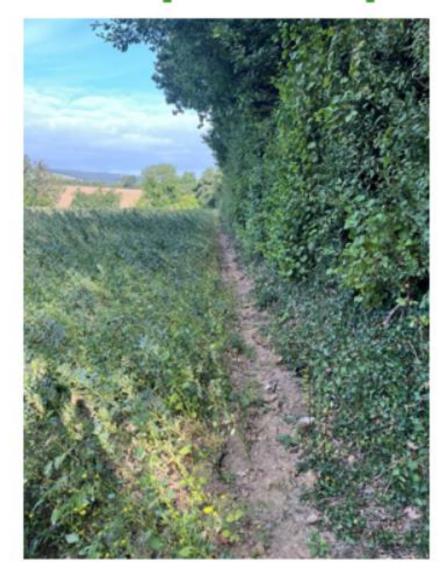
 ${f A}$ GRICULTURE AND ${f F}$ OOD ${f D}$ EVELOPMENT ${f A}$ UTHORITY

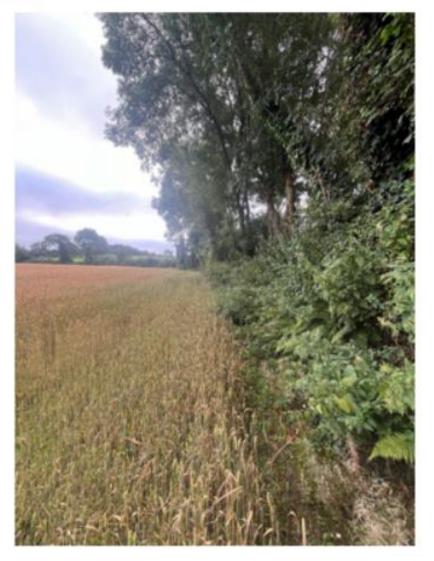






Examples of poor margins







Grassy margin planted 2024







Thank You

