





Water Quality Policy In Ireland Good Agricultural Practice (Nitrates) Regulations (M > Key national legislation to protect water from agricultural pressures STATUTORY INSTRUMENTS > Sets out requirements and limits on farming S.I. No. 605 of 2017 > Ireland applies to the EU every 4 years for 'Derogation' Current derogation ends on 31 December 2021 > 7,000 farmers availing of derogation and 5,000 more exporting slurry to avoid derogation EUROPEAN UNION (GOOD AGRICULTURAL PRACTICE FOR PROTECTION OF WATERS) REGULATIONS 2017 2014 2015 2016 2017 2018 7000 Number 5,800 6300 6800 6891 332,200 351,900 409,800 432,300 445,200 Area Avg. Size 58 56 60 62 65 LU/ Farm 139 146 149 150 162







Kick Sampling Video https://www.teagasc.ie/environment/water-quality/waterquality-week/water-quality-and-catchmentmanagement/#kicksampling

What human activities are impacting water quality?	How is agriculture impacting on water quality?		
 Agriculture Hydro morphology – physically altering stream Urban areas UWWTP & Septic tanks Forestry Industry Peat Quarries Roads 	 Diffuse Nutrient losses Pesticides Point sources Stocking rates Sediment losses Bacteria/coliforms Toxic substances 		
What can you do to belo improve water quality?	What can you do to help improve water quality?		
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What can you do to help improve water quality? Manage soiled water & farm yard wastes Adequate slurry storage 	 What can you do to help improve water quality? Promote an ASSAP/advisory visit Financial and socio economic 		
 What can you do to help improve water quality? Manage soiled water & farm yard wastes Adequate slurry storage NMP – implement 	 What can you do to help improve water quality? Promote an ASSAP/advisory visit Financial and socio economic Weather conditions 		
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 What can you do to help improve water quality? Manage soiled water & farm yard wastes Adequate slurry storage NMP - implement Buffers Roadways Fencing watercourses - sediment Correct disposal of toxic wastes 	 What can you do to help improve water quality? Promote an ASSAP/advisory visit Financial and socio economic Weather conditions Fertiliser and slurry – correct rates, timing, locations poaching of fields/out wintering/supplementary feeding 		









Critical Source Areas (CSA's)

- Critical Source Areas (CSA's) are areas that are at highest risk of impacting a water body.
- Often low-lying parts of farms where runoff accumulates in high concentration.
- Runoff from CSA's carries sediment and nutrients (N & P) to waterways.
- Identification of CSA's necessary to reduce nutrient, sediment and pesticide losses.
- Important to apply appropriate farm management practices









Pollution Impact Potential (PIP) Maps

- PIP maps developed by the EPA
- Help focus on the areas and sources that might be impacting water quality.
- Help identify diffuse P and diffuse N losses.
- The darkest blue areas (PIP rank 1) show the farmland with the highest risk for diffuse P losses.
- High risk areas often coincide with poorly drained land



PIP map for Phosphorus. Source EPA and OSI



What can be done to reduce/prevent P & sediment losses? Break the pathway!!

- Identification and Management of critical source areas (CSA's)
- Buffer margins
- Riparian margins
- Hedgerows
- Cover crops
- Wetlands and low earthen mounds
- Woodland planting or margins
- Alleviate compaction of adjoining farmland
- Managing out wintering of livestock suitable locations
- Manage stocking rates
- Reduced P applications
- Appropriate re-seeding management
- Sediment traps & leaky dams
- River bank supports























Pro	ohibited Period	ls for Spread	ling			
Fertiliser Type	Closed Period Start Date All Zones	Closed Period End Date Zone A	Closed Period End Date Zone B	Closed Period End Date Zone C	Buffer Zones for Organic Manu	re Spreading
Slurry	15 th Oct to	12 th Jan	15 th Jan	31 st Jan	Water body / Feature	Slurry or FYM
Farmyard Manure	1 st Nov to	12 th Jan	15 th Jan	31 st Jan	Water Supply > 100m ³ or > 500 people	200m
Z	one C)			Water Supply > 10m ³ or > 50 people	100m
D	onegal	1			Water Supply < 10m ³ or < 50 people	25m
C	avan*	-			Lake shoreline	20m
M	Ionaghan*		2		Exposed cavernous or karstified limestone features (e.g. swallow holes)	15m
Zone B 📃 Clare	a h	2	Zone A Carlow		Any surface watercourse where the slope towards watercourse is >10%	10m
Kerry	er l	5-5-4	Dublin		All other surface waters	5m* 10M near closed period*
Longford Louth Mayo Meath Roscommon Sligo Westmeath	A A A A	and the	Kilkem Laois Offaly Tippera Waterf Wexfor Wicklo	ny ury ord rd ww		



