NMP Online User Update

Issue 27 (Version 9) | November 2023

teagasc
Agriculture and Food Development Authority

NMP Online

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1. General notes

The NMP online webpage is @ https://www.teagasc.ie/environment/soil/nmp/ and all previous bulletins and videos are available there.

The last feedback from users has been very positive and we hope that this latest work will help users even more. There is ongoing work to make the system better for users and this involves putting additional hardware in place; along with system improvements to ensure the system runs better during peak demand.

We are engaging with DAFM in relation to the following items and all going well (GDPR and data sharing agreements); will be developed over the coming months:-

- LPIS boundary update
- Updated LPIS detail and we are still investigating if we can get access to DAFM ortho/aerial layer

2. New map layers added to NMP online

A number of new mapping layers will appear on the three mapping pages in NMP online (Land Set-up, Farmyard Map and Map Viewer). Mapping payers 3-9 below only appear in map viewer.

The new mapping layers are:

1. DAFM 220 map in all three mapping sections
2. OM layer added to Land Setup and Farmyard Map
3. Pollution Impact Potential Nitrates (PIP-N)
4. Pollution Impact Potential Phosphorus (PIP-P)
5. PIP-P Floe Delivery Paths
6. PIP-P Flow delivery Points
7. WFD Third Cycle River Waterbodies
8. Targeting Agricultural Measures
9. WFD Areas for Action

3. Detailed information on the new layers

To help make the system operate quicker these layers only appear when the user is at a certain scale. Users will also notice that the map have been widened.

Land Set-Up page – all layers are turned on automatically

- Parcels and exclusions only visible at a scale of 2km (scale at bottom left of the map pages)
- Plots visible at a scale of 6km
- DAFM 220 map visible at all scales
- OM Layer visible at 2km

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Farmyard Map – only plots turned on automatically

- Plots visible at a scale of 6km
- DAFM 220 map visible at all scales (has to be turned on in layer control)
- OM Layer visible at 2km (has to be turned on in layer control)

Map Viewer

- Plots visible at a scale of 6km
- DAFM 220 map visible at all scales (has to be turned on in layer control)
- OM Layer visible at 2km (has to be turned on in layer control)
- All other layers will continue to work as they do currently

4. How to use these new layers

The new layers in Land Set-up are set to come on by default and can be deselected by the user when at the correct scale as mentioned above. There is a setting to increase or decrease opacity (transparency of the layer) using the Increase/decrease opacity up/down options. Users will be able to zoom in to individual farms. How this will affect individual farmers will be clarified by DAFM over the coming weeks.

For the "Max 220 SR 2024" map layer there is a Show Metadata or info ?; that will bring the user to a different browser tab such as the one below.

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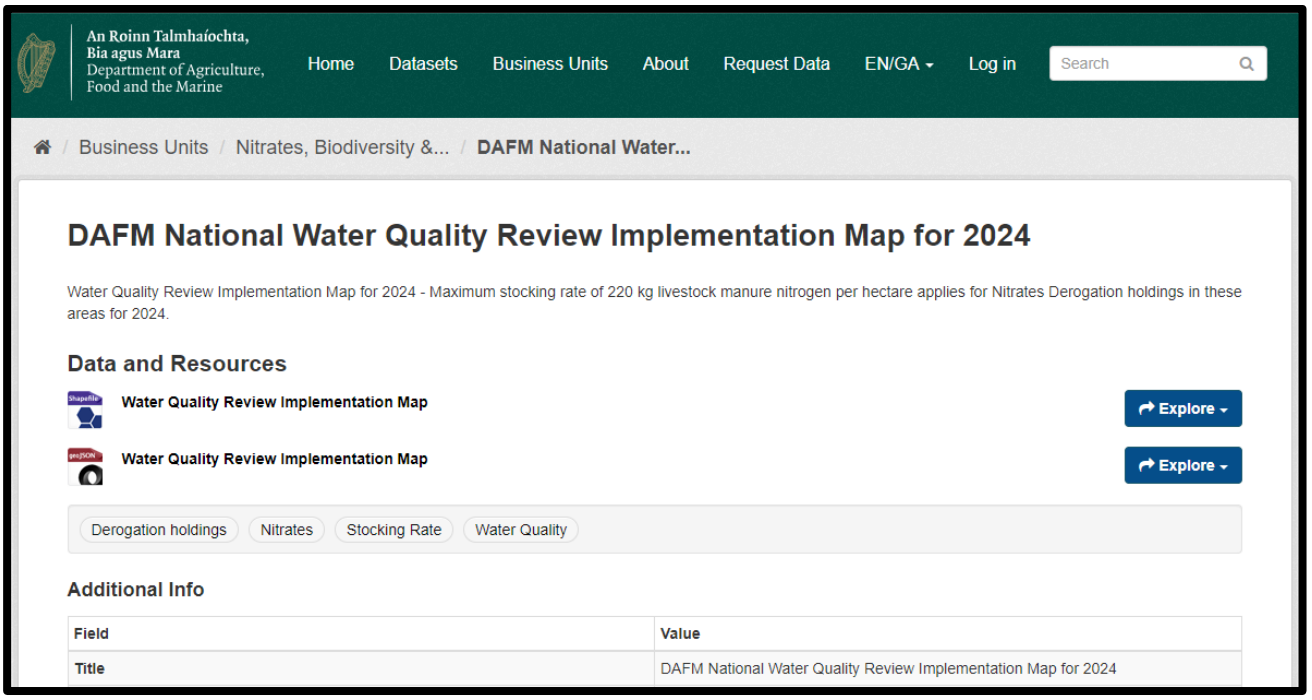
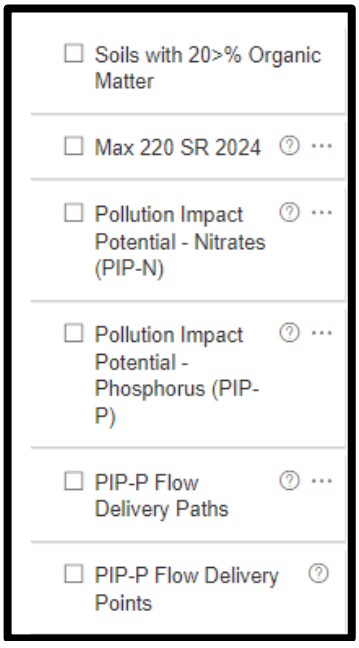


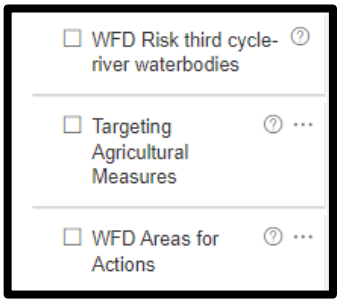
5. Ortho/Aerial layer in NMP online

This has been updated to show the most recent OSI ortho layer 2013 – 2018 and replaces the pre-2013 OSI layer.

6. Other Water layers from EPA

Due to the increased interest in water quality, additional custom layers from the EPA have been added to Map Viewer under custom layers.





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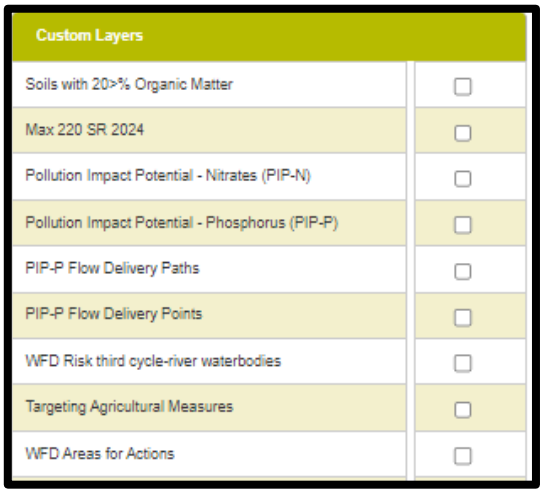
These layers can also be printed and appear in the Edit Print Properties



7. How to interact with these layers

The new water layers in Map Viewer must be selected by users to appear and can be deselected by the user when at the correct scale as mentioned above. There is a setting for some of the layers to increase or decrease opacity (transparency of the layer) using the Increase/decrease opacity up/down options. For these layers there is a Show Metadata or info ?; that will bring the user to a different browser tab such as the one below.

The table below will explain what each of these layers contain and the legends associated with them.

Layer	Metadata	Legend
Pollutant Impact Potential for Nitrate (PIP-N)	Nitrate Critical Source Area (CSA) are where there is a source of N from agricultural areas and the land is susceptible to losses. This 'High PIP' (Rank 1, 2 or 3) is typically due to the presence of freely draining soils and moderate/high livestock intensity. Target these areas in At Risk water body in which nitrate is the significant issue and farming is the significant pressure.	

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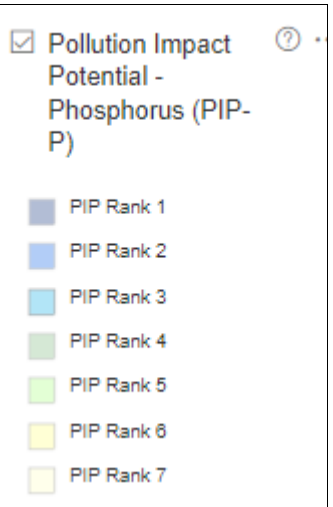
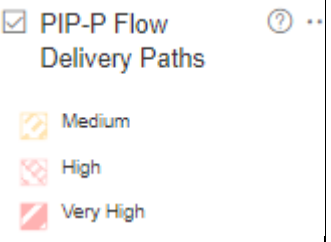
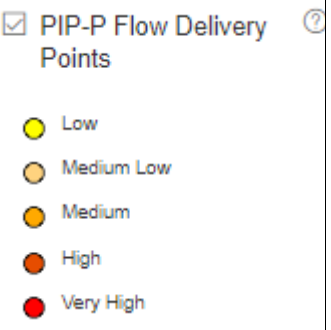
Pollutant Impact Potential for Phosphorus (PIP-P)	Phosphorus Critical Source Area (CSA) are where there is a diffuse source of P from agricultural areas and the land is susceptible to losses. This 'High PIP' (Rank 1, 2 or 3) is typically due to the presence of poorly draining soils and moderate/high livestock intensity. Target these areas in At Risk water body in which phosphate is the significant issue and farming is the significant pressure.	
PIP-P Focused Delivery Flow Paths	Focused Delivery Flow Paths are the areas of converging runoff that results in an increasing accumulation of flow. It is important to consider the available source of phosphorus in these contributing areas when deciding whether to target measures (check the underlying PIP-CSA rank). The red flow paths have the highest surface runoff. Where these cross High PIP areas, expect higher P losses. This map was created from outputs from the EPA DiffuseTools Research Project.	
PIP-P Flow Delivery Points	Focused Flow Delivery Points are where Focused Flow Paths enter a watercourse. The size of the point indicates the relative volume of flow delivered to water. This map was created from outputs from the EPA DiffuseTools Research Project.	
WFD River Waterbody Approved Risk	This layer represents the risk for each waterbody of failing to meet their Water Framework Directive (WFD) objectives by 2027. The risk of not meeting WFD objectives was determined by assessment of monitoring data, data on the pressures and data on the measures that have been implemented. Waterbodies that are At Risk are prioritised for implementation of measures. This assessment was completed in 2020 by the EPA Catchments Unit in conjunction with other public bodies and was primarily based on monitoring data up the end of 2018.	

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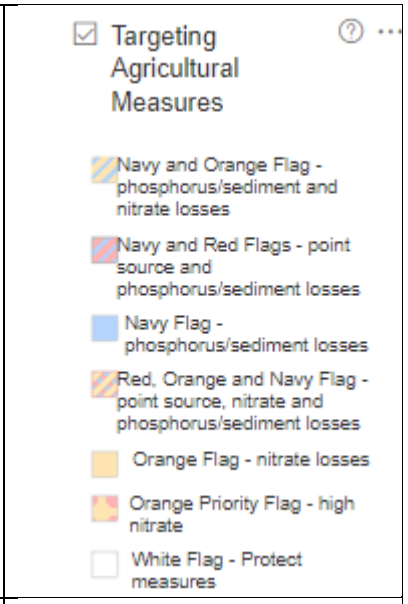
Targeting Agricultural Measures	Where agricultural measures are needed to restore water quality, the Subbasin are highlighted with one or more coloured flags to indicate the types of water quality issues associated with that Subbasin: Red (potential point source), Orange (nitrate losses) and/or Navy (phosphorus/sediment losses).	
WFD Areas For Action	This dataset was developed for the River Basin Management Plan for Ireland 2018 – 2021 (second cycle River Basin Management Plan). The Areas for Action are areas where action will be carried out in the second cycle. The data consists of polygon geometry representing the location and extent of the Areas for Action (waterbodies) and tabular attribute data describing the waterbody.	

8. Recent DAFM clarification around Hay/silage for sale

Rule 1. Where the previous YR GSR is equal or less than 0; then the allowances should come from: N - Table 14, P - Table 15. See Tables below.

Rule 2. Where the previous YR GSR is greater than 0 and less than 85 kgs N (Previous years GSR in plan settings) The available N allowances comes from Table 12, for all grass crops

- Where the Prev Year GSR is greater than 0 and less than 85 then the P allowance should come from Table 15
- Where the Prev Year GSR is greater than 85, then the P allowances will come from table 13 A & 13 B (if eligible for P build up)

Important Note to Users with these crops: Where the previous year's grassland stock rate is between 0.1 to 1 kgs N/ha then insert 1, (full integer) and where the previous year's grassland stock rate is between 85.01 to 85.99 kgs N/ha then insert 86 (full integer) in plan settings.

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Table 14 Annual maximum fertilisation rates of available nitrogen on grassland (cut only, no grazing livestock on holding)

	Available nitrogen (kg/ha)
1st cut	112
Subsequent cuts	90
Hay	72

Table 15 Annual maximum fertilisation rates of phosphorus on grassland cut only

	Phosphorus Index			
	1	2	3	4
	Available Phosphorus (kg/ha)[1,2,3]			
First cut	40	30	20	0
Subsequent cuts	10	10	10	0

[1]The fertilisation rates for soils which have more than 20% organic matter shall not exceed the amounts permitted for Index 3 soils, subject to the provisions in Article 16(3)(*f*).
[2] The fertilisation rates apply to grassland where there is no grazing livestock on the holding.
[3]The fertilisation rates in this table apply to those areas of farms where hay or silage is produced for sale off the holding on farms stocked <85 kg grassland stocking rate.

Where users select any of the crops below NMP online will now default the correct available N and P allowances following DAFM clarification.

Note to all Users: We advise all users to check any plans for 2023 that have any of these crops to check the land and fert max page and the maximum chemical P allowed. The limits for using or importing organic P is limited to the stocking rate current year of 170 kgs N/ ha or the chemical P limit whichever is reached first.

Users will also be presented with this message in Land set-up when they select any of these crops

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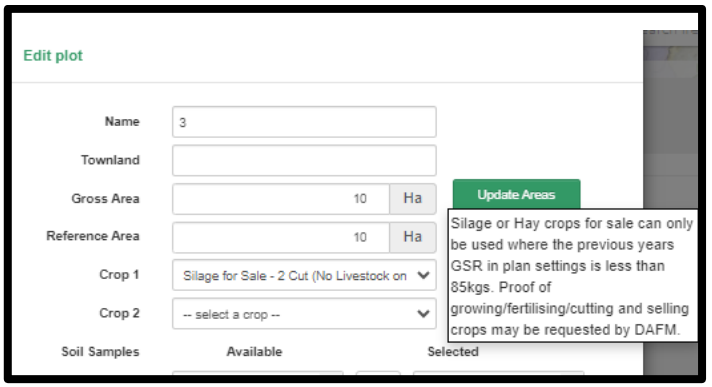
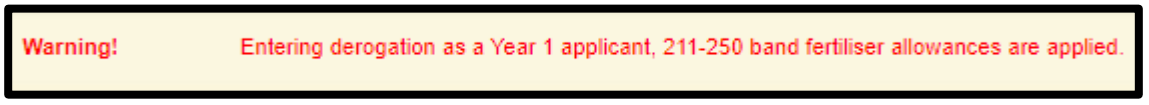


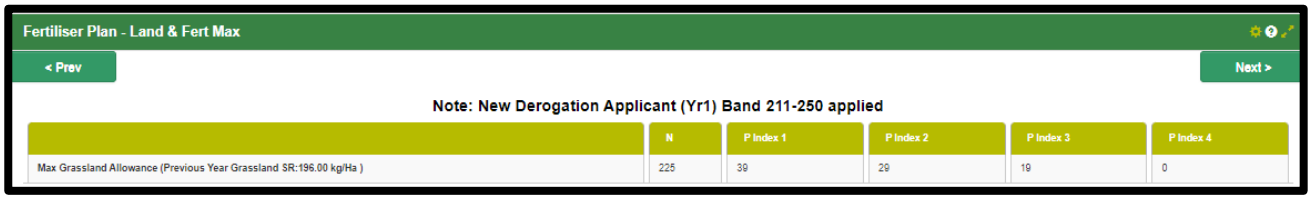
9. Note to user on Land and fert max page and new warnings

Users will now notice a number of new warning and notes to help explain the changes for derogation in the previous bulletin https://www.teagasc.ie/media/website/environment/soil/NMP-Bulletin-26-October-2023.pdf

A. **New Derogation Applicants:** for the warning and message on the land and fert max page, below to appear there are three conditions to me met:-

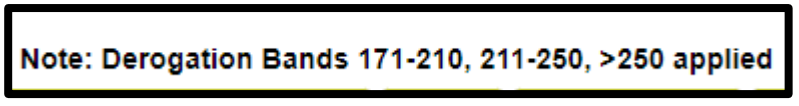
- Plan year 2023 or greater
- Settings Derogation applied for in current year – YesYear1 Applicant
- 80% or more of land in current year is grassland





B. **Existing Derogation Applicants** for the warning and message on the land and fert max page, below to appear there are three conditions to me met:-

- Plan year 2023 or greater
- Settings Derogation applied for in current year – Yes
- 80% or more of land in current year is grassland
- Settings previous years GSR >170 kgs N/ha



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C. **Existing Derogation Applicants** for the warning and message on the land and fert max page, below to appear there are three conditions to me met:-

- Plan year 2023 or greater
- Settings Derogation applied for in current year – Yes
- 80% or more of land in current year is grassland
- Settings previous years GSR <170 kgs N/ha

Note: Previous Year Stocking Rate determining Fertiliser Band

This will also appear in the following scenarios

- Didn't apply for derogation current year, Tillage >5% and previous years GSR <170 kgs N/ha
- If you are not applying for derogation in the current year and previous years GSR <170 and plan year 2023 or greater
- If you are not applying for derogation in the current year and previous years GSR >170 kgs N/ha and <5% non-grassland plan year 2023 or greater
- Did apply for derogation in the current year as Yes, > 80% in grassland current year and previous years GSR <170 kgs N/ha
- Did apply for derogation in the current year as Yes,< 80% in grassland current year (>20% tillage), and previous years GSR <170 kgs N/ha

D. **Not a derogation applicant Applicants** for the warning and message on the land and fert max page, below to appear there are three conditions to me met:-

- Not a derogation applicant in current year and previous years GSR >170 and >5% tillage current year:

Note: Derogation Bands 171-210, 211-250, >250 applied

Contact the Helpdesk by email or phone

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10. Annex 1 – Water Quality Review Implementation Map for 2024

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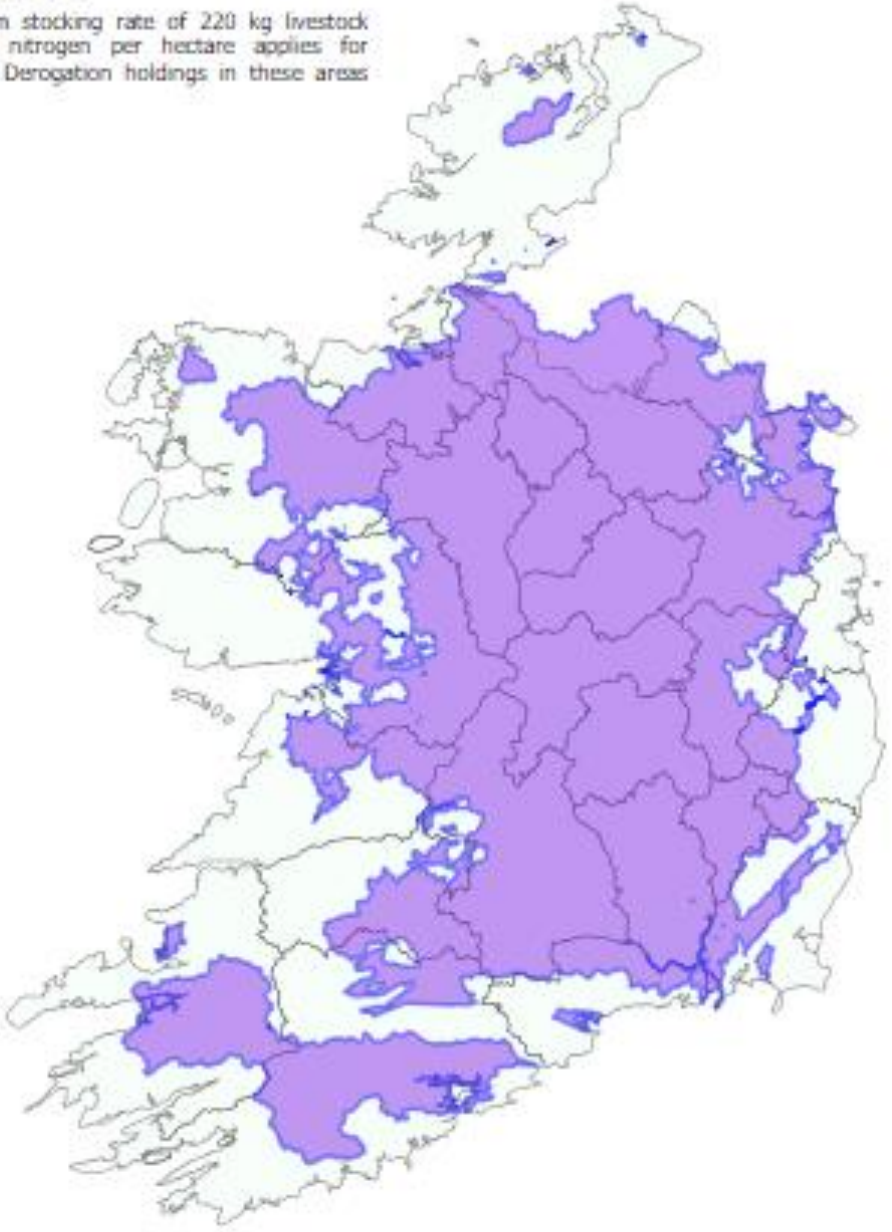
Department of Agriculture, Food and the Marine

Water Quality Review Implementation Map for 2024 (Cr. 02/10/2023)

Nitrates

Maximum stocking rate of 220 kg livestock manure nitrogen per hectare applies for Nitrates Derogation holdings in these areas for 2024



Maximum stocking rate of 250 kg livestock manure nitrogen per hectare applies for Nitrates Derogation holdings for all other areas for 2024.
For Commonage land a maximum stocking rate of 50 kg livestock manure nitrogen per hectare continues to apply for all farmers regardless of Derogation status.

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