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1. **NMP Upgrade and System improvements**

   NMP online has been undergoing substantial improvements in recent months. NMP online will continue to undergo a series of improvements following stakeholder consultation over the coming months. *To avail of these improvements, all users are advised to clear the browsing history on the internet browser that they use. We recommend that users work with Google Chrome.*

2. **NMP Update**

   Just like the derogation rules continue to evolve, so too does NMP Online. We have a lot of new and exciting developments in the pipeline. These updates will be released over the coming months.

   Though we are undergoing upgrades, we have not lost sight of what needs to be done today. We are near the end of the derogation season. We all know that there has been an extension until the 24th of April. That is no reason to spend longer online than you need to. Your feedback will help us to improve NMP Online, for you, and ultimately for farmers.

   **System Speed** - We have had feedback in early February that the system speed was slower than desired. Our development team have worked hard to resolve these issues. You will have noticed significant improvements in the past few weeks. This trend will continue.

   **Improved P, K and Farmyard Maps** - You will also notice that we have updated our maps with P and K values now displaying the ppm of P and K. Soil data is now printing on plots in any of the printed reports, regardless of the scale of the map; however users are advised to ensure that all soil sample maps are legible for DAFM. The legend for farmyard storage has been improved, and is appearing crisp and clear on the print jobs in map viewer.

   Fixes like these are only possible because of your feedback. As always if you have suggestions, issues or queries do not hesitate to get in touch on 076 1111339 or NMPHelpDesk@Teagasc.ie

3. **Transfer of plans from Agency to Agency**

   Below outlines the steps necessary to transfer plans from one agency to another which featured previously in *NMP Bulletin 10* and also in Appendix 1 below.

   In Appendix 1 there is a data release form to be completed by the following:

   a) Agent to which the client/plan is moving to
   b) Client Signature
   c) When this is completed, the Data Release Form is emailed to NMPHelpDesk@Teagasc.ie and the support staff will assist the Agency owner in the transfer
   d) Once the NMP Helpdesk receives the form, both agents are contacted to verify the details, and the plan ID to be transferred
   e) Agency Owners should be the only agents with permission to transfer clients/plan ID’s
4. **How to transfer plans from Agency to Agency**

- Go into the plan you wish to transfer
- Select at the top **“Send to Another Agency”**
- A list of agencies will appear, below this enter the **agent**. From the list, select the agency, you wish to send the plan to, and the **advisors name** at the bottom.

- Back to home screen and select **“Plans Transferred”** and click **“Approved”**

- Go to **“Plans Received”** and click “Assign agent” and find the agent you wish to assign the plan to. Click the agent you want and press Cancel.

- Click on my Clients -> Click on **“Add Client”** then input the client details and click **“Save”**
• Go to ‘plans assigned to me’ -> Click on “Assign Client” Select the client in the list. Transfer is now fully completed.

5. **New Derogation changes: Commonage/Rough Grazing**

Since the new derogation rules were announced in February 2020 in relation to Commonage and Rough Grazing, NMP online is undergoing changes to adapt to this. NMP users that have clients with Commonage/Rough Grazing cannot complete Derogation NMP’s for 2020 for these clients until these changes are built into NMP online.

NMP online now has the ability for the chemical allowance permitted ≤ 170NpH in line with the bullet points above. This is reflected on the Land and Fert Max page which will show the available N and P for commonage/rough grazing as non-derogation rates.

The change for the commonage/rough grazing – “Permitted for inclusion to ≤ 170 livestock N/ha will be in the system as soon as possible.
6. **Sustainable Fertiliser plans in NMP Online**

Before preparing a Sustainable Fertiliser Plan (SFP) for a client, we would highly recommend that each user familiarises themselves with the steps outlined in this guide. Following this, please set up a test plan to familiarise yourself with what these new functionalities have to offer you and your clients.

**What has changed?**
We have introduced “Sustainable Fertiliser Plans” (SFP) to NMP Online.

**What is SFP?**
This functionality will allow individual agents to generate semi-automated Sustainable Fertiliser Plans (SFP) for individual paddocks/soil sample areas. These plans can be given to farmers to help them deliver for the environment, climate, and optimise their business.

The SFP function is primarily for use in grazing areas, however, it can be used across all other crop types if users wish to populate this data for different crops. For paddocks/soil sample areas that will be used for grazing only, the SFP function will automatically populate with protected urea for straight N recommendations. Agents can edit these plans with recommendations to best match the farming system that they are working with.

SFP will also allow the agent to provide more timely and sustainable fertiliser advice for each crop. It will also allow soil type to be taken into account for advice which fits in with the grass growth curve for various soil types. Soil type must be selected for each area in land setup which will then populate recommendations.

**Why protected Urea?**
Protected urea is the single largest contributor to reducing both the greenhouse gas (GHG) and ammonia emissions associated with livestock production, and achieving our reduction targets without reducing the herd. It should therefore be promoted and included, where possible, as part of new nutrient management plans and fertiliser advice in 2020 for grassland. Protected urea is a sustainable substitute for straight Urea 46%N and, or CAN 27%N on farms, as it will maintain grass yields while reducing GHG & Ammonia emissions and potentially Nitrate leaching losses.

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**MACC – Agricultural GHG Abatement**

<table>
<thead>
<tr>
<th>Mitigation Mt CO₂ Eq.</th>
<th>Cost €/t CO₂ Eq.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mitigation</strong></td>
<td></td>
</tr>
<tr>
<td>1. Fertiliser N Type</td>
<td></td>
</tr>
<tr>
<td>(protected urea)</td>
<td></td>
</tr>
<tr>
<td>total CO₂ mitigation potential</td>
<td>1.52 Mt</td>
</tr>
<tr>
<td>2. Draining wet mineral soils</td>
<td>0.20 Mt</td>
</tr>
<tr>
<td>3. Low-emission slurry spreading</td>
<td>0.22 Mt</td>
</tr>
<tr>
<td>4. Nitrogen-use efficiency</td>
<td>0.20 Mt</td>
</tr>
<tr>
<td>5. Extended grazing 100% permanent pasture (260 kg N/ha)</td>
<td>0.07 Mt</td>
</tr>
<tr>
<td>6. Inclusion of Clover (60% beef area and 30% dairy area)</td>
<td>0.07 Mt</td>
</tr>
<tr>
<td>7. Slurry amendments (30% slurry/manure)</td>
<td>0.07 Mt</td>
</tr>
<tr>
<td>total CO₂ mitigation potential</td>
<td>2.7</td>
</tr>
</tbody>
</table>

**Animal performance related mitigation options** – somewhat slower to be realised

<table>
<thead>
<tr>
<th>Mitigation Mt CO₂ Eq.</th>
<th>Cost €/t CO₂ Eq.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Dairy EB (baseline by 620 per cow by 2020)</td>
<td>0.43 Mt</td>
</tr>
<tr>
<td>9. Improved animal health (20% reduction by 2020)</td>
<td>0.20 Mt</td>
</tr>
<tr>
<td>10. Improved Beef Maternal Traits (620 beef per cow by 2020)</td>
<td>0.03 Mt</td>
</tr>
<tr>
<td>11. Beef Genetics: Optimised live-weight gain</td>
<td>0.06 Mt</td>
</tr>
<tr>
<td>total CO₂ mitigation potential</td>
<td>8.31</td>
</tr>
</tbody>
</table>

MACC = Tropec Mitigation Abatement Cost Guide for greenhouse gases.
What are the benefits of SFP for the farmer? 
Together with your client, you will easily be able to create a fertiliser plan for each paddock/soil sample area across the farm. This plan can be delivered on a kg/ha or bags/acre basis, whichever your client prefers. Farmers will be able to see similar fertiliser advice across similar soil sample indices and crops, therefore making fertiliser purchases and spreading of such products easier.

It will take into consideration, all organic and chemical fertiliser recommendations given by the agent. For the agent, the system will now allow the user to select similar fertiliser advice across multiple paddocks/soil sample areas with the same crop.

Do I have to use SFP? 
No, you do not have to use SFP. However it will save you time in getting a top quality fertiliser plan together for your clients. This plan will be presented with splits. This means that your total fertiliser application recommendations can now be divided across four main calendar periods. These periods are January to March, April and May, June and July and August to October.

7. How do I use SFP?

When you open a plan go to the plan settings tab on the top right hand side of the page. Directly above the search function.

When you open this tab you will notice for the first time that there is now an SFP Settings tab. Click on this tab to open up your SFP Settings which will allow you to turn on the SFP function. Yes is on. No is off.

If you have advice in a plan already for organic and chemical fertiliser, it will not transfer across to the SFP plan. However if you revert back to No, this advice will be restored into the non-SFP plan. This said we do advise users to create a new version/copy, and make these new plan the SFP Plan (see section 9).
The organic and chemical fertiliser advice does not transfer across because SFP is a new way of delivering sustainable advice, and this requires a blank canvas. Users can switch between SFP and Non SFP without losing the recommendations in either plan. This option is also available when new copy is selected.

When you select “Yes” and turn on the SFP functionality you will be presented with a new section in the “Plan Menu” called Sustainable Fertiliser. This replaces the existing organic and chemical fertiliser pages.

As per the image below, you will be presented with a list of your client’s plots. Each plot will be listed the same as currently, by name, with the crop, indices etc.
When you select any of the rows; a new screen will appear as per below. This screen has several functions which users will not have seen before, and are explained in more detail below. As can be seen in the first couple of rows: plot name, indices, crop type and soil type are visible. There are two new crop types in NMP Online, Grazing + Dairy and Grazing + Drystock. These can be found at the bottom of the crop type in land setup. The reason for these two extra crops is to match the Teagasc Green book with various farming systems such as dairy and drystock.
To select Grazing + Dairy and Grazing + Drystock please go to the bottom of the crop type in land setup page.

**Soil type**

As can be seen below, the rows will be orange as you will need to edit the soil type. Different soil types require different advice to minimise fertiliser loss.

Until you update soil types you will be presented with an orange shaded warning notification as per the image above. Users are advised to edit soil type in land setup (Edit plot details), before using the SFP plan. To update soil type, please go to the “Land Setup” section of the “Plan Menu”.

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This will present you with the following screen.

![Image of a table showing soil type options]

Click into each individual plot and select the **NEW** relevant soil type from the “SFP Soil Type” drop down menu. The options are “Dry (well drained) Soil”, “Wet (poorly drained) Soil”, and Peat (Organic [OM>20%]) Soil. Currently this has to be done for each plot individually but NMP online will develop a function to do this for multiple plots at a time.

Users will see that the N advice will vary across soil type within the splits/SFP. The N advice for dry soils is the full N advice from the Teagasc Green Book. For wet and peat soils the N advice is 95% and 85% respectively. P and K advice varies across soil type to match crop requirements as per the Green Book. Users should follow the advice in the SFP for each plot on a split basis. Users will see that sulphur (S) is also appearing; however the calculations for this will be released with the next phase of development.

When you select soil type click save and move onto the next one. These changes will appear like the image below in the “Land Setup” page.
If the soil type is not selected as per above and the user goes into a plot on the SFP page, the following warning will be displayed.

In the warnings section the following warning may appear and will indicate that some plots are missing soil type in the land setup section.

**Warning!** The following plots require an SFP soil type: ‘Mossies’ , 'Mid field Above Rd', 'Leathery', 'Back of Cottages'.

**Sustainable fertiliser**

When you have updated all plot soil types. You can then return to the “Sustainable fertiliser” page on the “Plan Menu”.

You will then be presented with a page similar to the screen below.
Preparing Advice
From here you can prepare fertiliser advice for your client. Click on any individual plot or row on the image above, and you will be presented with an image similar to below. Users must click save when closing out of the screen below.

SFP Options
You will notice three buttons below the SFP options. “Use SFP”, “Use Saved Profile” and “Make Plan Wide Profile”.

Use SFP
Use SFP button is only active for two crops
- Grazing + dairy
- Grazing + drystock

Selecting the use SFP button will provide the user with an advice column for all nutrients. It will also populate the relevant splits with straight N advice using protected Urea. You can edit over this SFP advice. It can also be removed again by clicking on “Remove SFP” which replaces the “Use SFP” button. Users should aim to develop a fertiliser advice programme for grazing, that can be used across other grazing plots of similar soil fertility and management. (See next section.)

Make Plan Wide Profile
When you are working on a plot that you know replicates many of the plots on the holding, you can use that fertiliser advice across other plots by selecting “Make Plan Wide Profile”. E.g. you have four plots that will be used for grazing. When working on the first of these plots, this profile/fertiliser advice can then be applied across the remaining three grazing plots, saving you time.

This can be done in two ways by selecting “Use Saved Profile” or “Bulk Assignment of a Saved Profile”. Both are explained below in further detail.

If you wish to change the profile of the original plot and this should be applied to other plots, then you need to “Remove the plan wide profile” edit the plot and “Make Plan Wide Profile” again and apply to the relevant plots again.

Option 1: Use Saved Profile
When you select “Use Saved Profile”, you will be presented with a drop down that will allow you to select any of the profiles that you have previously created. Here you may have plots that are high P & K, medium P & K and low P & K that you can apply to similar plots and crops.
Option 2: Bulk Assignment of a Saved Profile (for larger plan types)
You will see the “Bulk Assignment of a Saved Profile” button on the bottom left hand side of the SFP screen.

When you select this option you will be presented with the following screen.

From left to right, the “Select all” button will allow you to select all plots. Click on the boxes on the left hand side to select or deselect. You can order the plots based on plot numbers, and /or crops using the up/down arrows in the headings.

The dropdown at the top of this screen will allow you to view all of the “Plan Wide Profiles” that you have created. Select the profile that you wish to apply to your plots then hit save to confirm. All of the plots on the holding will appear except for those that have been used as the profile plots.

8. Report generation

A new report called “Farmer Fertiliser” is now available, which now prints off just the fertiliser plan for the farm. This report is only available in SFP plans and is based on the plot or crop sorting on the
SFP page. In the next stage of development users will be able to print off fertiliser plans for specific crop types. This new report will help farmers with the “Right product, Right place, Right time” approach to soil fertility. This report will only display plots that have fertiliser advice applied to them.

9. Creating a new version/copy of an SFP plan

For a new version/copy, users can select SFP Yes/No, during the version copy creation, or use plans settings to switch between SFP and non SFP plans. Users are advised to not select SFP Yes in existing plan IDs. Users can select SFP Yes/No when creating a new NMP for a new client.

10. SFP Top Tips

A. Users are advised to create a number of “Plan Wide Profiles”. For example; create a profile for “Low P & K Soils” for “Medium P & K Soils” and for “High P & K Soils”. The profiles created are only utilisable for that plan ID, and must be created for each new plan that the user develops.

B. Users should check the nutrient balance section for the percentage P in the chemical recommended row. This should be applied across the SFP.

C. Users need to keep an eye on the manure allocation section of estimated and applied manures.

D. Please be patient, each action will take a few seconds to save. There are a lot of calculations carried out based on each click of the user’s mouse.

E. Do not ignore the warnings which are now in a new format if >5 warnings on a plan these will be collapsed to allow more screen space

F. In the most recent update of NMP Online, by default, the warnings are presented in a fashion that gives you the power to view them in detail, when you want to.
Click on the warnings to collapse the full list.
11. Appendix 1 - Data Release Form

To whom it may concern,

I_____________________, Address____________________________________ and Herd Number _______________________ hereby give permission to ____________ (Original Agency/Agent) to share/transfer my soil testing data, current Nutrient Management Plans, and other relevant fertiliser management data with ____________ (New Agency/Agent). I understand that all such information will be stored in the Teagasc NMP database, and will be used for the purpose of supporting information for records and plan changes.

Signature Farmer ________________________________ Date _________________

Receiving Agent ________________________________ Date _________________

Data Protection

What is personal data? Personal data is data which can be used to identify you. This may include your name, date of birth, address, telephone number etc.

Where will you store my data? The record of your case will be stored in an electronic database system accessed by employees of Teagasc.

How will you use my data? Your data will primarily be used for the purpose of providing support on Nutrient Management Planning.

Can I withdraw my consent? Yes, but unfortunately the collection and processing of this data is a key component in the running of the programme, so if consent is withdrawn it will mean you no longer form part of the programme.

Why might you share my personal and sensitive personal data? Who will you share it with?

We will only ever share your individual information with your permission. Otherwise your data will be presented at events as an average of the group without identifying you as an individual.