

<u>Planning Land Application of Nutrients for Efficiency and the EnvironmenT</u>

What's new in version 3.3?

PLANET Scotland version 3.3 (August 2014)

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Introduction

The NVZ Action Programme rules in Scotland were updated in 2013. PLANET has been updated to take account of these rules changes. The new version 3.3 also includes a number of additional improvements to the software. This document includes full details of the NVZ updates and other changes to PLANET.

Upgrading to version 3.3

Existing PLANET farm files can be upgraded to v3.3. Before installing the new PLANET v3.3 you must first uninstall any old versions of PLANET from your computer. Your farm files are stored separately to the PLANET programme and will not be affected by uninstalling the PLANET programme from your computer.

Users are advised to regularly save back-up copies of their PLANET farm files in case of any problems. PLANET farm files (.mdb files) are saved by default in the Documents\PLANET\DATA directory. You can save a copy of your farm files to memory stick, CD or other back-up device.

Within the new version 3.3, the long term (30 year) average rainfall database has been upgraded to postcode based data, which is more detailed than the previous telephone STD code based rainfall database.

When you first open an existing farm file in v.3.3 you will be prompted to enter your postcode in the Farm and field details tab and you will be asked whether you wish to update the farm average rainfall value.

Important

The information supplied in the PLANET software is for guidance purposes only and is not intended to fully substitute for professional agricultural advice. The specific statutory elements concerning water and nitrates are set out in the relevant national legislation and you should refer to this legislation to find out exactly what you must do. The nutrient recommendations provided by PLANET are in line with national industry standard guidance. If in doubt, farmers should seek help from a qualified adviser.

The user is responsible for ensuring the accuracy and completeness of all data entered and used by PLANET, and for any commercial decisions taken based on any of the PLANET recommendations or other outputs of this software. Use of the PLANET software is subject to the terms and conditions of the PLANET User Licence.

PLANET v3has been developed by ADAS and SRUC with funding and support from Defra and the Scottish Government. For further information, visit www.planet4farmers.co.uk or ring the PLANET Helpline on 08453 451302 (PLANET England and Wales) or 08456 023864 (PLANET Scotland).

NVZ changes

The NVZ Action Programme rules in Scotland were updated in 2013. Updated NVZ Guidance can be found in the PLANET library.

Increase in minimum livestock manure N efficiency values

The minimum livestock manure N efficiency values that must be used when calculating the supply of crop available N in the N max calculations have increased by 5% for cattle slurry and pig slurry (see Table 1). PLANET will automatically use the correct minimum livestock manure N efficiency value for applications of livestock manures depending on application date.

Table 1. Minimum livestock manure N efficiency values

Type of livestock manure	Minimum manure N efficiency factors Up to 31st December 2013	Minimum manure N efficiency factors From 1 st January 2014
Cattle slurry	35%	40%
Pig slurry	45%	50%
Poultry manure or litter	30%	30%
Other solid livestock manures	10%	10%

NVZ warning messages

Within PLANET if you have fields located in an NVZ and you enter details of a fertiliser or organic manure application that may breach one of the NVZ Action Programme rules, a message will show warning you of this possible breach. A red 'warning flag' will show next to the fertiliser or organic manure application details.

The NVZ warning messages in PLANET have been updated to reflect the following changes to the NVZ rules:

- The closed spreading period when high readily available N organic manures may not be spread on medium and heavy soils (i.e. soils that are not sandy or shallow) has been extended by 2 weeks to 31st January.
- 2. The field application limit (250 kg N/ha in organic manures) has been increased for applications of PAS 100 certified compost to 500 kg N/ha every 2 years.

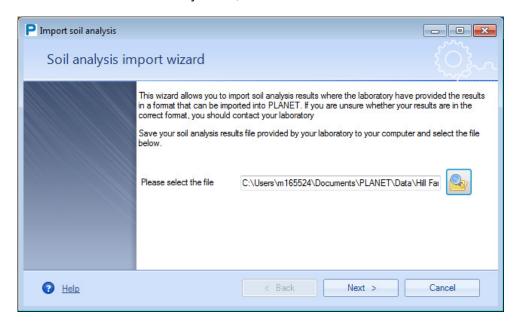
New features and improvements

The new PLANET version 3.3 includes some additional features to improve usability and functionality of the software.

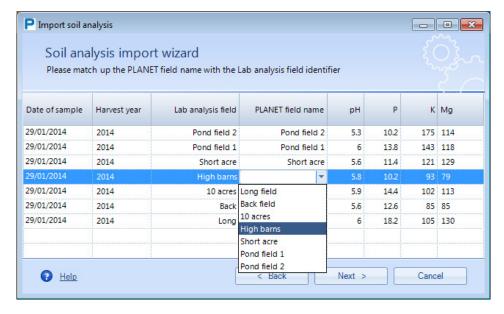
Importing soil analysis

PLANET version 3.3 has the facility to directly import soil analysis data where the laboratory provide the data in a specified format. If you are unsure if your results are in the correct format you should check with your laboratory.

- Step 1. Save your soil analysis results file to your computer.
- Step 2. Open the 'Soil analysis import wizard' by clicking on the conical flask icon from the top task bar.
- Step 3. Locate the saved soil analysis file, then click 'Next'.



Step 4. The wizard displays the soil analysis data. Match up the 'Lab analysis field' with the 'PLANET field name' by selecting from the drop down list of available fields (these are the 'Field names' entered in the 'Farm and Field Details' tab). You can edit the 'Date of sample' here.

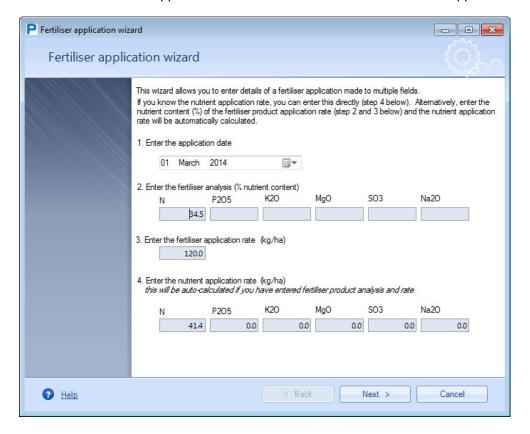


Step 5. Select 'Next' and then 'Finish' to complete the import process and the data is displayed in the 'Soil analysis' tab (you can edit the data if you need).

Data entry wizard for fertiliser applications

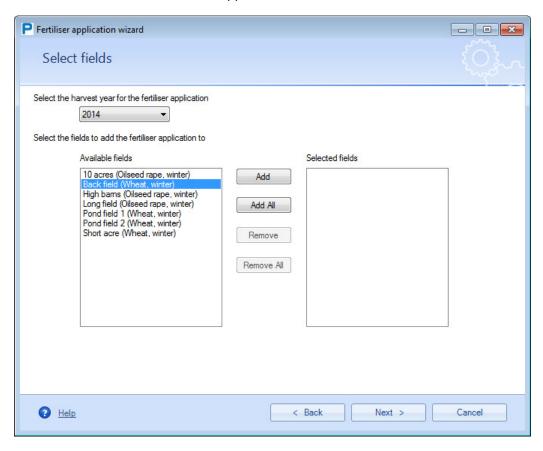
This wizard is a new feature in PLANET v3.3 and allows quick and easy entry of a manufactured fertiliser application made to multiple fields.

- Step 1. Open the 'Fertiliser application wizard' by clicking on the blue hat icon from the top task bar.
- Step 2. Select the fertiliser application date and enter details of the fertiliser application.



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Step 3. Select the 'Harvest year' for the fertiliser application from the drop down list, and select the fields to add the fertiliser application to.



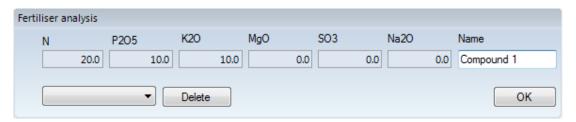
Step 4. Select 'Next' and then 'Finish'. The fertiliser application details are displayed in the 'Nutrients and lime' tab.

The fertiliser application wizard will not over-write existing data. You can use the wizard to enter details of multiple fertilsier applications to groups of fields. The new 'Fertiliser application wizard' is in addition to the existing 'Data entry wizard' which can be used to copy cropping, organic manures, nutrients and lime information between fields (for further information on the 'Data entry wizard' see the 'Field level planning and record keeping' help file available from the 'Help' menu).

New facility to set default nutrient ratios for fertiliser types

In PLANET you can enter details of fertiliser applications in the 'Nutrients and Lime' tab directly as kg/ha nutrient or by double clicking on the 'Fertiliser analysis' cell and entering the nutrient percentages in the fertiliser product and enter the 'Rate of application' of the fertiliser product. The nutrient application rate will be auto-calculated.

In PLANET v3.3 when you double click on the 'Fertiliser analysis' cell, you now have the option to 'Name' the fertiliser type. The name and nutrient ratios will be saved and be available for selection for future use from the drop down menu.



Changes to splitting & merging

PLANET already allows the splitting and merging of fields. Any existing field can be split into two or more fields that are to be managed separately in a specific harvest year. In addition, two or more existing fields can be merged where it is intended to manage them as a single field in a specific harvest year. Further details on the existing facility to split/merge fields can be found in the 'Field level planning and record keeping' help file available from the 'Help' menu.

PLANET v3.3 now allows you 'undo' a split or merge provided that no cropping details exist against the 'new' field. To undo a split field:

- Step 1. Select the split field icon
- from the task bar in the 'Farm and field details' tab.
- Step 2. Select 'Undo split'
- Step 3 Select the harvest year when the field was split, then select the split fields and select 'Undo split'

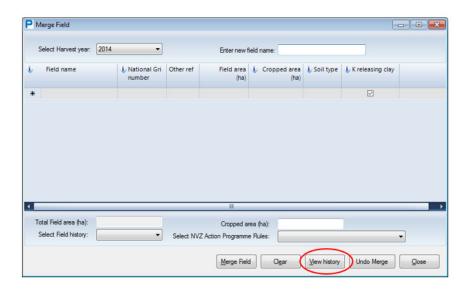


To undo a merge, follow the same steps as above but using the merge field



Note – this option to 'undo' a split or merge should only be used if you split or merge field(s) either unintentionally or subsequently decide not to manage the fields as either split/merged fields.

In addition, you can now view the history of split/merged fields, allowing you to see which fields have been split or merged and in which harvest year. To view a split/merge field history report, select 'View history' from either the split or merge field screens.



New manure types

Three new organic manure types have been added to the list of available types:

Digestate (whole), food-based Digestate (whole), cattle slurry-based Digestate (whole), pig slurry-based

Update fertiliser prices

The default nutrient prices used in the Nutrient and Crop prices module, and Manures Inventory have been updated to 70 p/kg N (£242/t ammonium nitrate), 80 p/kg P_2O_5 (£368/t triple superphosphate) and 60 p/kg K_2O (£360/t muriate of potash).

Sources of help

There are a number of help files available from the 'Help' menu within PLANET which can be saved and printed. In addition a range of audio-visual tutorials can be found under the 'Tutorials' menu.

Further help is available by contacting the PLANET helpline on 08456 023864, but this helpline is specific to the use of PLANET and will not give technical advice on manure or fertiliser use for individual farm or field crops.