

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

Farmgate Nutrient Balance Help file

PLANET version 3.3

Farmgate Nutrient Balance

Overview

This module calculates the quantity of nitrogen, phosphate and potash nutrients coming onto the farm through the farm gate (imported), balanced against those that are taken off the farm (exported) during a 12 month period (assessment year). The difference between the quantity imported and exported is known as the 'Farmgate Nutrient Balance'. If more nutrient is imported onto the farm than is exported off the farm, then the farm has a surplus of nutrient (a positive value shown in red); if more nutrient is exported than imported, then there is a deficit (a negative value shown in green). The calculated balance is compared against benchmark values to indicate if the farm is typical compared to other farms of the same type.

The Farmgate Nutrient Balance module is not relevant to the NVZ rules but should be useful to identify if there are opportunities to improve nutrient management or planning on the farm.

To use this module, you must first either create a new farm file or open an existing farm file. If you are starting a new file, then as a minimum you must enter the Farm name, STD code and postcode in the Farm Details tab before you can open the module – but you do not need to enter any other information. You will be prompted to save any changes before you enter the module.

To use the module, select the Farmgate Nutrient Balance icon from the task bar at the top of the screen, or select 'Farmgate Nutrient Balance' from the 'View' menu.

The module will appear with four main tabs.

- Farm and Cropping Details
 - Crop Type and Area including Fixed Nitrogen from legumes
- Imports (5 tabs for types of Imports)
 - o Livestock Imports
 - Animal Feeds Imports
 - Bedding Imports
 - Organic manures Imports
 - Inorganic Fertilisers Imports
- Exports (5 tabs for types of Exports)
 - Livestock Exports
 - Livestock Products Exports
 - Harvested Crops Exports
 - Organic Manures Exports
 - Inorganic Fertilisers Exports
- Nutrient Balance

You will need to enter information into each relevant tab. The Nutrient Balance tab will then show you the Farmgate Nutrient Balance.

To delete information from a row, highlight the row by clicking on the small grey cell at the far left hand end of the row and press the Delete key. Information can be deleted from some, but not all individual cells by pressing the Delete key. You can change, but not delete information from cells with drop-down menus.

To clear all the information on a tab (screen), right click and select the *Clear tab* button. To clear information on all the tabs (screens), right click and select the *Clear all tabs* button.

Further information to help with data entry is provided throughout PLANET by clicking on the Ψ buttons.

Important. You can only save one set of data in this module. For instance, if you enter data for a calendar year then this will be saved on your computer. However, if you then edit this data (e.g. for a later calendar year) the original data will be overwritten and only the new data will be saved. Therefore, if you wish to keep a permanent record of the PLANET calculation and report for a particular assessment year, you should either print out a hard copy of the PLANET report before making any edits to the data, or use the 'Save As' function in the File menu to save each set of data as a separate Farm file file which you will need to name individually.

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 land 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 v3 has been developed by ADAS and SRUC with funding and support from Defra and the Scottish Government. The software is maintained by ADAS. For further information, visit <u>www.planet4farmers.co.uk</u> or ring the PLANET Helpline on 08453 451302 (PLANET England and Wales) or 08456 023864 (PLANET Scotland).

Farm and Cropping Details Tab

Use this tab to enter details of the farm and assessment year.

PÞ	LANET - F	armgate Nutr	rient Balance fo	r 12 months f	rom Se	ptember 2009			
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	Then selec	ate Nutrient Balan It the farm type tha	ice is calculated from at most closesly desc	ribes your farm. If	your fam	month period. Select the start mo n is a pig or poultry enterprise with	nth and year of the accounting h little of no land, select 'Arable) year. ;, with manures'.	
	Start date:	September		✓ 2	009	M Enc	date: August 2010		
				_					
	Farm type:	Mixed arable wi	ith dairy	*					
÷	Crop type	•		1	urea ha				
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	Lucerne			11	.00				
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- 1. The Farmgate Nutrient Balance is calculated for a 12 month period. Select the *Start Date* (month and year) from the drop-down lists.
- 2. Select the *Farm type* which most closely describes your farm from the drop-down list. If your farm is a pig or poultry enterprise with little or no land choose 'Arable with manures'.
- 3. Next select the crop type from the *Crop type* drop-down list. Select 'Other crops (including setaside)' for most arable/horticultural crops.
- 4. Enter the *Area* of each crop type for the required assessment year. Be careful to enter information in the required units.
- 5. When you have completed entry of data, click on the *Imports* tab.

Imports Tab

Click this tab and a series of tabs will appear for you to enter details of Livestock Imports, Animal Feeds Imports, Bedding Imports, Organic Manure Imports and Inorganic Fertiliser Imports that you have or intend to bring onto the farm (import) during the assessment year.

Livestock Imports Tab

Use this tab to enter details of the animals that are imported onto the farm during the assessment year. Do NOT enter details of those livestock that are already on the farm.

Live stock Imports	Animal Feeds Imports Bedding Imports	Organic Manures Imports	Inorganic Fertilisers Imports
Livestock group	Livestock unit	Weight 🥡 Number o	f units
		kg	
Characteria	1 lamb. 6-9 months	10	45
Sheep/other Poultry	1 lamb, 6-9 months 1000 laying hens (free range), 17 wks and over	2,050	20
Pigs	1 grower, 31-66 kg (liquid fed)	50	50
Cattle	1 dairy heiter replacement, 13 months to first calf	450	20
Cattle	1 bull breeding, 25 months and over	650	1

- 1. Select the *Livestock group* cattle, pigs, poultry or sheep/other.
- 2. Select the Livestock unit (e.g. dairy heifer replacement, laying hens).
- 3. The typical *Weight* of the livestock unit will be shown automatically, but you can edit this if you have more specific information.
- 4. Enter the *No. of units.* Note that some categories are quoted in 1000's, so if you have imported 2000 laying hens enter 2 units not 2000.

Animal Feeds Imports Tab

Use this tab to enter details of Animal Feeds that are imported onto the farm during the assessment year.

				oorts Nutr	ient Balance					
Liv	estock Impo	rts Animal Feeds	s Imports	Bedding Import	s Organic	Manures Imports	Inorgani	c Fertilisers Imports	5	
Set N	New Defaults									
	nimal feeds	i, Animal feeds type	DM	Crude protein	Phosphorus (P)	Potassium (K) 👔	Purchases	Stock at year-start	i) Stock at year-end i	Us
gi K	roup		%	% in fresh wt	% in DM	% IN DM	t fresh wt	t fresh wt	t t fresh wt	t fresh
	orages	Maize silage (30% DM)	30	3.0	0.20	1.22	100.0 75.0			100
	orages	Grass silage (25% DM)	25	4.2 25.2	0.30	1.99	75.0		5.0	75
	Concentrates Concentrates	Distillers dark grains, maize Brewers grains (23% DM)	23	5.8	0.49	0.04	50.0		5.0	50
	Compounds	Dairy (16% CP)	90	16.0	0.43	1.12	25.0	10.0	5.0	30
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/ St PLAN e Set	HET - Farmg View Units New Default New Default To change the of Then click 'Sav	ate Nutrient Balance fo Tools Library Help s default for an existing item, sel	or 12 months f lect the appropriate ges.	rom September Animal Feeds Grou	Inbox - Microsoft C 2009 Ip' and the 'Animal F	'eeds Type' from the	drop-down lists a	PLANET v3 Farr	mga 🔇 💽 🔊	** 9, 10 _ 6 _ 1
ent fi / St PLAN e Set	HET - Farmg View Units New Default New Default To change the of Then click 'Sav	ate Nutrient Balance fo Tools Library Help S default for an existing item, set e changes' to save the chang item, select the appropriate 'A	or 12 months f lect the appropriate ges.	rom September Animal Feeds Grou	Inbox - Mcrosoft C 2009 Ip' and the 'Animal F I list. Type the item r	eeds Type' from the name in the 'Animal F	drop-down lists a	PLANET v3 Farr	mga 🔇 💽 🔊	** 9, 10 _ 6 _ 1

- Select the Animal feeds group and Animal feeds type using the drop-down lists. <u>Do not enter</u> <u>home produced feeds.</u> The options for the animal feeds group are concentrates, compounds, and forages.
- 2. If the animal feed type you require is not shown press the **Set New Defaults** button to set up the name and nutrient content of a new feed type using the appropriate columns. Make sure you enter the nutrient content data in the correct units (see the 1 buttons). Press the **Save Changes** button to save the details of the new feed type which will then be available for selection on the full list of animal feed types. You can also use this procedure to make permanent changes to the default nutrient contents of any feed type.
- 3. The default content of **DM** (dry matter), **Crude protein, Phosphorus** and **Potassium** of the animal feed type will be shown automatically. These can be edited if required, but make sure you enter the information in the correct units (see the 4 buttons).
- 4. Enter the total amount of *Purchases* during the assessment year. Then enter the total amount of *Stock at year-start* (this is the amount in stock, if any, at the start of the accounting year) and *Stock at year-end* (this is the amount remaining at the end of the accounting year). The amount that is *Used* during the assessment year is then calculated automatically. However, you can enter this figure directly without entering values for 'stock'.

Bedding Imports Tab

Use this tab to enter details of Bedding that is imported onto the farm during the assessment year. <u>Do</u> not include details of home produced bedding.

arm and Cropping	Details Imports	Exports Nutrient Ba	alance		
Livestock Imports	Animal Feeds Imports	Bedding Imports	Organic Manures Imports	Inorganic Fertilisers Imports	
Bedding type	i Purchases i Sto t fresh wt	ck at year-start į, Stock at year-e t fresh wt t fresh	endij Used wt tfresh.wt		
Sand	10.0	5.0	15.0		
Sawdust	50.0		50.0		
Woodchip	100.0		100.0		
Other	20.0		20.0		

- 1. Select the **Bedding type** using the drop-down list. <u>Do not enter home produced bedding.</u> Each bedding type has a standard nutrient content which you cannot edit.
- 2. Enter the total amount of *Purchases* during the assessment year. Then enter the total amount of *Stock at year-start* (this is the amount in stock, if any, at the start of the accounting year) and *Stock at year-end* (this is the amount remaining at the end of the accounting year). The amount that is *Used* during the assessment year is then calculated automatically. However, you can enter this figure directly without entering values for 'stock'.

Organic Manure Imports Tab

Use this tab to enter details of Organic Manures that are imported onto the farm during the assessment year. Do not include details of home produced organic manures.

Live	stock Imports Animal Feeds Impo	orts Bedid	ing Imports	OrganicMan	ures Imports Inorg	ganic Fertilisers Imp	oorts	
Set Ner	w Defaults Load data					8		
	inure type	i N	P205	i К20 i	Quantity imported	Stock at year-start	Stock at year-end	Applied to lan
		kg/t or kg/m²	kg/m² or kg/t	kg/m² or kg/t	t or m ²	t or m ²	t or m ²	t or m
	ver Manure	19.0	14.0	9.5	30.0			30.
	aste food - brewing	2.0	0.8	0.2	100.0 50.0	5.0	10.0	90. 55.
	per crumble, chemically/physically treated	2.0	3.0	0.2	2632.450	0.0		
	een compost ttle slurry	2.6	3.0	5.5	150.0 20.0			150.

- 1. Select the *Manure type* using the drop-down list. Do not enter home produced organic manures.
- 2. If the manure type you require is not shown press the **Set New Defaults** button to set up the name and nutrient content of a new manure type using the appropriate columns. Make sure you enter the nutrient content data in the correct units (see the i buttons). Press the **Save Changes** button to save the details of the new manure type which will then be available for selection on the full list of manure types. You can also use this procedure to make permanent changes to the default nutrient contents of any manure type.
- 3. The default content of **N**, P_2O_5 and K_2O of the manure type will be shown automatically. These can be edited if required but make sure you enter the information in the correct units (see the \bullet buttons).
- 4. Enter the total amount of *Quantity imported* during the assessment year. Then enter the total amount of *Stock at year-start* (this is the amount in stock, if any, at the start of the accounting year) and *Stock at year-end* (this is the amount remaining at the end of the accounting year). The amount that is *Applied to land* during the assessment year is then calculated automatically. However, you can enter this figure directly without entering values for 'stock'.

If you have previously entered data into the Organic Manure Imports and Exports module, you can load this data by clicking the *Load data* button. If you then select 'Yes' to loading the data, data for all Organic manure imports for the 12 month period will automatically be imported to this tab.

Note: If you select to import data using the *Load data* button, this will overwrite any data that already has been entered into this grid.

Inorganic Fertiliser Imports Tab

Use this tab to enter details of Inorganic Fertilisers that are imported onto the farm during the assessment year.

	Livestock Imports An	nimal Feeds Impor	ts Bedd	ing Imports	Organic Ma	nures imports	Inorganic Fertilisers I	mports	
	et New Defaults			3			2		
	Name	Solid or liquid Tick if solid	N % or % w/v	P205 % or % w/v	K20 i % or % w/v	Purchases i t or m ³	Stock at year-start i t or m ³	Stock at year-end it	Applied to land t or m ³
ŧ			78 OF 78 YW Y	/* 01 /* 11/ 1	78 UI 78 WY Y	C OF IN	(or m	(or m	c or m
	Other		0.0	0.0	0.0	100.0	15.0	20.0	95.0
	Urea		46.0	0.0	0.0	300.0		0.0	300.0
	Triple superphosphate	v	0.0	47.0	0.0	500.0		100.0	400.0
	Muriate of potash	~	0.0	0.0	60.0	200.0		120.0	80.0
	Ammonium nitrate (33.5% N)	~	33.5	0.0	0.0	250.0	10.0	5.0	255.0

- 1. Select the *Name* of the fertiliser using the drop-down list.
- 2. If the fertiliser name you require is not shown press the **Set New Defaults** button to set up the name and nutrient content of a new fertiliser using the appropriate columns. Make sure you enter the nutrient content data in the correct units (see the 1 buttons). Press the **Save Changes** button to save the details of the new fertiliser which will then be available for selection on the full list of named fertilisers. You can also use this procedure to make permanent changes to the default nutrient contents of any named fertiliser.

Farm and Cropping Details Imports Exports Nutrient Balance Set New Defaults To charge the default for a existing item, select the "Name" from the drop-down list and charge any of the current default values. Then click "Save changes" to save the changes. To enter a new item, type the item name in the "Name" cell, enter the new values and click "Save changes" to save the changes.	- 7 🗙		ember 2009	onths from Sept		NET - Farmgate Nutrier	P PL File
Farm and Cropping Details Imports Exports Nutrient Balance Set New Defaults Imports To charge the default for an existing item, select the "Name" from the drop-down list and charge any of the current default values. Then click "Save changes" to save the changes. To enter a new item, type the item name in the "Name" cell, enter the new values and click. "Save changes" to save the changes.		🐄 🌨 🛛 📄		N			File
Set New Defaults To change the default or an existing item, select the "Name" from the diop-down list and change any of the current default values. Then click: "Save changes" to save the changes. To enter a new item, type the item name in the "Name" cell, enter the new values and click. "Save changes" to save the changes.		UU /////		max			
To change the default for an existing item, select the 'Name' from the drop-down list and change any of the current default values. Then click 'Save changes' to save the changes. To enter a new item, type the item name in the 'Name' cell, enter the new values and click 'Save changes' to save the changes.		ince	Nutrient Bal	Exports	Imports	n and Cropping Details	Fa
Then click 'Save changes' to save the changes. To enter a new item, type the item name in the 'Name' cell, enter the new values and click 'Save changes' to save the changes.						New Defaults	Ps
ij Name Solid or liquid N P205 K20 Tele ž solid – X or Yurku X or Yurku					save the changes.	Then click 'Save changes' to	
THUK II SUND AS DE ASWY A AS DE ASWY A		K20 % or %w/v	P205 % or %w/v	N % or %w/v	Solid or liquid Tick if solid	Name	î,
							*

- 3. For solid fertilisers make sure that the box in the column headed **Solid or liquid** is ticked.
- 4. The default content of N, P_2O_5 and K_2O of the fertiliser will be shown automatically. These can be edited if required but make sure you enter the information in the correct units (see the $\frac{1}{2}$ buttons).
- 5. Enter the total amount of *Purchases* during the assessment year. Then enter the total amount of *Stock at year-start* (this is the amount in stock, if any, at the start of the accounting year) and *Stock at year-end* (this is the amount remaining at the end of the accounting year). The amount that is *Applied to land* during the assessment year is then calculated automatically. However, you can enter this figure directly without entering values for 'stock'.

Exports Tab

Click this tab and a series of tabs will appear for you to enter details of Livestock Exports, Livestock Products Exports, Harvested Crops Exports, Organic Manure Exports and Inorganic Fertiliser Exports that you have or intend to move off the farm (export) during the assessment year.

Livestock Exports Tab

Use this tab to enter details of the animals that are exported off the farm during the assessment year. Include details of fallen stock.

Livestock group Livestock unit Weight & No. of units		Livestock Exports	Livestock Products Exports	Harvested Crops	Exports	Organic Manures Exp	orts Inorganic Fertilisers Exports	
kg kg Sheep/other 1 lamb. 6-9 months 10 200 Pouthy 1 000 broker breeder pullets, up to 25 wks 2,400 2 Pigs 1 grower, 31-66 kg flouid ted) 500 150 Cattle 1 daity cow (up to 6000 litres mik yield) 500 5								
Sheep/other 1 lamb, 6-9 months 10 200 Pouhy 1000 broller breeder pullet, up to 25 w/s 2.400 2 Pigs 1 grower, 31-66 kg (liquid ded) 50 150 Cattle 1 disign con (up to 5000 liters mik yield) 500 5		Livestock group	Livestock unit		Weight 👔	No. of units		
Sheep/other 1 lamb, 6-9 months 10 200 Poulty 1000 broller bieeder pulleti, up to 25 wks 2,400 2 Pigs 1 grower, 31-66 kg (liquid fed) 500 150 Cattle 1 dairy cow (up to 6000 litres mik yield) 500 5					kg			
Poulty 1000 broller breeder pullet, up to 25 wks 2.400 2 Pigs 1 grower, 31-66 kg (liquid fed) 500 150 Cattle 1 dairy cow (up to 6000 litres mik yield) 500 5					10	200		
Pigs 1 grower, 31-66 kg (liquid fed) 50 150 Cattle 1 dairy cow (up to 6000 litres mik yield) 500 5	•							
Cattle 1 dairy cow (up to 6000 litres milk yield) 500 5		-						
Laffie I Car, up to 3 monims								

- 1. Select the *Livestock group* using the drop-down list cattle, pigs, poultry or sheep/other.
- 2. Select the *Livestock unit* using the drop-down list (e.g. dairy heifer replacement, laying hens).
- 3. The typical *Weight* of the livestock unit will be shown automatically, but you can edit this if you have more specific information.
- 4. Enter the *No. of units.* Note that some categories are quoted in 1000's, so if you have imported 2000 laying hens enter 2 units not 2000.

Livestock Products Exports Tab

Use this tab to enter details of the Livestock Products that are exported off the farm during the assessment year.

irm and Cropping	Details	Imports	Exports	NutrientBalance		
Livestock Expo	rts	Livestock Pr	oducts Exports	Harvested Crops Exports	Organic Manures Exports	Inorganic Fertilisers Exports
Product type	i	Crude protein	Unit	ij No. of units		
		% fresh wt				
Wool			tonnes	125		
Milk		3.19	1000 litres	150		
Eggs, medium			1000 eggs	200		
Eggs, extra large			1000 eggs	100		

- 1. Select the *Product type* using the drop-down list.
- 2. The *Crude protein* content will be shown automatically but can be edited if more specific information is available. Standard values for the P and K content of each product type are not shown, but will be used in the balance calculation these cannot be edited.
- 3. Enter the *No of units* sold. Note that some product types are quoted in *Units* of 1000's, so if you have exported 10,000 litres of milk enter 10 units not 10,000.

Harvested Crop Exports Tab

Use this tab to enter details of the Harvested Crop Products that are exported off the farm during the assessment year.

	Livestock Exp	orts Livestock	Products Exports	Harve	sted Crops Exports	Organic Manures E	Seports Inorgani	c Fertilisers Exports	
	Crop group	Crop type	🌲 N or protein	Units	 Quantity harvested t fresh wt 	Crop used on farm i t fresh wt	Stock at year-start i	Stock at year-end i	Exporte t fresh v
*					(nesri wi	(near W	(nearly w	(near wi	CHEST
•	Vegetables	Brussel sprouts			200.0				200.
	Fruit	Cherries			300.0				300
	Forage crops	Turnips			500.0	200.0		50.0	250
	Arable - other	Peas, vining			600.0	200.0		50.0	600
	Arable - cereals	Wheat grain, milling	13.0	% protein	10,000.0		500.0	200.0	10,300
	Arable - cereals	Barley grain, feed		% N in 100	5,000.0	2.000.0			3,000

- 1. Select the *Crop group* and *Crop type* using the drop-down lists.
- 2. The default content of *N* or protein and the Units that this value is expressed in is then shown for some crop types (e.g. winter wheat). Where shown, this value may be edited if more specific information is available. Standard values for the P and K content of each crop type are not shown, but will be used in the balance calculation these cannot be edited.
- 3. Enter the total amount of *Quantity harvested* during the assessment year and the total amount of *Crop used on farm.* Then enter the *Stock at year-start* (this is the amount in stock, if any, at the start of the accounting year) and *Stock at year-end* (this is the amount remaining at the end of the accounting year). The amount that is *Exported* during the assessment year is then calculated automatically. However, you can enter this figure directly without entering values for 'stock'.

Organic Manure Exports Tab

Use this tab to enter details of Organic Manures that are exported off the farm during the assessment year.

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Livestock		Livestock Products	Exports Ha	rvested Crops Exports	OrganicMa	nures Exports	Inorganic Fertilisers Exports
et New Defaults	Load Data	_					
Manure type		Ŷ	N kg/t or kg/m²	P205 i kg/t or kg/m²	K2D kg/t or kg/m²	Quantity exporte t or n	
Goat FYM			6.0	3.2	8.0	50.	D
Pig FYM - old			7.0	6.0	8.0	200.	D
Layer Manure			19.0	14.0	9.5	5,000.	0

- 1. Select the *Manure type* using the drop-down list.
- 2. If the manure type you require is not shown press the **Set New Defaults** button to set up the name and nutrient content of a new manure type using the appropriate columns. Make sure you enter the nutrient content data in the correct units (see the is buttons). Press the **Save Changes** button to save the details of the new manure type which will then be available for selection on the full list of Manure types. You can also use this procedure to make permanent changes to the default nutrient contents of any manure type.
- 3. The default content of *N*, P_2O_5 and K_2O of the manure type will be shown automatically. These can be edited if required but make sure you enter the information in the correct units (see the \bullet buttons).
- 4. Enter the total amount of *Quantity exported* during the assessment year.

If you have previously entered data into the Organic Manure Imports and Exports module, you can load this data by clicking the *Load data* button. If you then select 'Yes' to loading the data, data for all Organic manure exports for the 12 month period will automatically be imported to this tab.

Note: If you select to import data using the *Load data* button, this will overwrite any data that already has been entered into this grid.

Inorganic Fertiliser Exports Tab

Use this tab to enter details of manufactured fertilisers that are exported off the farm during the assessment year.

rm and Cropping Detai		Exports	NutrientBa	lance			
Livestock Exports	Livestock Produc	ts Exports	Harvested Cro	ops Exports	Organic Manures E	Seports Inorganic F	ertilisers Exports
et New Defaults							
Name	Tick if solid	N % or % w/v	P205 % or % w/v	K2D % or % w/v	Quantity t or m ²		
Triple superphosphate	V	0.0	47.0	0.0	25.0		
Muriate of potash	2	0.0	0.0	60.0	120.0		

- 1. Select the *Name* of the fertiliser using the drop-down list.
- 2. If the fertiliser name you require is not shown press the **Set New Defaults** button to set up the name and nutrient content of a new fertiliser using the appropriate columns. Make sure you enter the nutrient content data in the correct units (see the ¹/₂ buttons). Press the **Save Changes** button to save the details of the new fertiliser which will then be available for selection on the full list of named fertilisers. You can also use this procedure to make permanent changes to the default nutrient contents of any named fertiliser.
- 3. For solid fertilisers make sure that the box in the column headed **Solid or liquid** is ticked.
- 4. The default content of N, P_2O_5 and K_2O of the fertiliser will be shown automatically. These can be edited if required but make sure you enter the information in the correct units (see the \downarrow buttons).
- 5. Enter the total *Quantity exported* during the assessment year.

Nutrient Balance Tab

This tab shows a summary of the information that you have entered and the calculated nutrient content values of the different imports and exports. When you select this tab you will be asked to save your changes. Click **Yes** to save the information you have entered on the preceding tabs.

-	t Balance for 12 months from September 20 ary Help					
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arm and Cropping Details	Imports Exports <mark>Nutrien</mark>	nt Balance				i i
	Description	Units	Quantity or area 🔱 t or m3 of fresh wt,ha	Nitrogen (N) kg	Phosphate (P205 🌡 kg	Potash (K2O) kg
PORTS				-		
Livestock						
	1 bull breeding, 25 months and over	1		15	11	2
	1 dairy heifer replacement, 13 months to first	20		202	147	21
	1 grower, 31-66 kg (liquid fed)	50		60	29	4
	1 lamb, 6-9 months	45		11	5	1
	1000 laying hens (free range), 17 wks and ov	20		886	504	107
	Livestock sub-total			1,174	696	135
Animal feeds						
	Brewers grains (23% DM)		50	464	129	6
	Dairy (16% CP)		30	768	445	364
	Distillers dark grains, maize		95	3,830	1,958	1,133
	Grass silage (25% DM)		75	504	129	450
	Maize silage (30% DM)		100	480	137	441
Padding	Animal feeds sub-total			6,046	2,798	2,394
Bedding	Other		20	0	0	0
	Sand		15	2	2	2
	Sawdust		50	100	30	350
	Woodchip		100	330	20	900
	Bedding sub-total		100	432	52	1,252
Organic manures	Dedding sub-total			4JZ	JZ	1,232
organic induarca	Cattle slurry		20	52	24	64
	Green compost	<u>_</u>	150	1,125	450	825
	Layer Manure		30	570	420	285
	Paper crumble, chemically/physically treated		55	110	22	11
	Waste food - brewing		90	180	72	18
	Organic manures sub-total			2,037	988	1,203
ent file: PLANET England.mdb					rsion 3 (England & Wales)	
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	Balance for 12 months from September 200	09				
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View Units Tools Libra	ary Help	•	Quantity or area to torm 3 of fresh witha	Nitrogen (N)	i Phosphate (P205 i kg	Potash (K20) kg
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View Units Tools Libre	ary Help	t Balance	Quantity or area 🎄	kg Nitrogen	kg Phosphate	Potash (K20) kg Potash
	ary Help	t Balance	Quantity or area 🎄	kg Nitrogen (N)	kg Phosphate (P205)	Potash (K20) kg Potash (K20)
Wew Units Tools Libre	ary Help	t Balance	Quantity or area 🎄	kg Nitrogen (N) kg	kg Phosphate (P205) kg	Potash (K20) kg Potash (K20) kg
View Units Tools Libre	ary Help	t Balance	Quantity or area 🎄	kg Nitrogen (N)	kg Phosphate (P205)	Potash (K20) kg Potash (K20)

This tab shows the calculated nitrogen (N), phosphate (P_2O_5) and potash (K_2O) contents of each import or export, and the net nutrient balance for the farm for the assessment year. The values are shown as kg of nutrient for the farm.

If more nutrient is imported onto the farm than is exported off the farm, then the farm has a surplus of nutrient (a positive value shown in red); if more nutrient is exported than imported, then there is a deficit of nutrient (a negative value shown in green).

Right click and press the **Collapse all** button to view only the totals for each category (top example) or the **Expand all** button to see the full details (bottom example).

Farmgate Nutrient Balance Report

Select the Reports icon **I** to generate a printed report of your Farmgate Nutrient Balance. The report shown below is only the first page. The full report will be several pages long.

P Farmgate nutrient balance				
😓 Brint 🏦 🗈 🗄 🗁 🦕 🖓 75 %	💽 🖸 1/7 🛛 🗟 <u>B</u> ackw	ard 🛛 🛞 Eorward 🛛 🚺 🔁 PDF expo	rt	
Farm	gate Nutrient Balance			
Farm ty		Single business identifier		
Clover Luceme Peas, vir Rough Grass	199 Area ha 5.00 10.00 10.00	Milk production Total volume ('000 litres)	160	
Other or	ops(incl. uncropped/fallow) 200.00 Totalfarmed area 400.00 No. of units	Quantity	Nitrogen (N) Phosphate (PgQs) Potash (KgQ	
1 dairy he months to	eding, 25 months and over 1 ifer replacement, 13 20 first calf	t or m³fresh vvt, ha	202 147 2	2
1 lamb, 6	enerated on: 22-Jun-2010 PLA	NET v3.0 (England & Wales)	80 29 1 11 5 Page 1 of 7	

The report will include benchmark Farmgate Nutrient Balance values. These are typical values for your farm type against which you can compare the calculated balances for your farm.

If you have a nutrient balance surplus (a positive value shown in red) that is higher than the benchmark value, then you may be importing more nutrients than required and there may be opportunities to reduce your imports of nutrients (e.g. use less manufactured fertiliser).

The report provides advice on ways of reducing or increasing the nutrient balance of the farm.

To return to other modules in PLANET select the required icon from the task bar or use the 'View' menu.