Fertilisation Account

For 1 January to 31 December 2009

For Northern Ireland farmers on the requirements of the Nitrates Directive Derogation from the livestock manure limit of 170kg Nitrogen per hectare per year

Name _____

Business Number _____

Address _____

_____

_____

Telephone _____

This fertilisation account must be received by Northern Ireland Environment Agency (NIEA) at
Water Management Unit,
17 Antrim Road, Lisburn, BT28 3AL

The deadline for submission is 1 March at the latest.
Submission after this date may result in a penalty. You are advised to photocopy this document.

Department of
Agriculture and Rural Development
www.dardni.gov.uk

AN ROINN
Talmhaíochta agus Forbartha Tuaithe

MÀNNYSTRIE O
Fairms an Kintra Fordèrin

NIEA
www.ni-environment.gov.uk
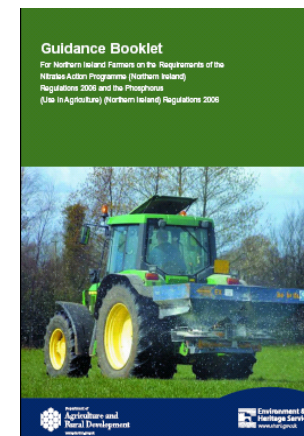Northern Ireland **Environment** Agency

This is an example format for a Fertilisation Account. However a farmer can present the information in other formats if preferred, for example the farm nutrient management calculators, available at www.ruralni.gov.uk

A Fertilisation Account must be prepared for all farms operating under a derogation and must be submitted to the Northern Ireland Environment Agency (NIEA) no later than 1 March for the previous calendar year.

To assist in the completion of the Fertilisation Account, please refer to the Derogation Guidance Booklet pages 48 to 58. Please note that this Fertilisation Account has been updated since the Guidance Booklet was written, therefore, there may be some differences in the layout of information.

The Nitrates Action Programme Guidance Booklet will also provide information. This was sent to all farmers in 2007. It is also available at www.dardni.gov.uk and www.ruralni.gov.uk

Please note: Any inaccuracies or omissions could lead to a breach of Cross-Compliance and a financial penalty. Please complete with care.

An accompanying worksheet is also available to assist you in assuring that your farm complies with the Phosphorus (P) balance limit.

1 Area of crops

See page 49 of the Derogation Guidance Booklet for a completed example.

Refer to the farm map and / or list of fields in the previous year's fertilisation plan noting crop areas.

Crop Grown	Area Grown (ha)	N Requirement* kg/ha
Grassland		
Spring Barley		
Winter Barley		
Spring Wheat		
Winter Wheat		
Maize		
Potatoes		
Spring oats		
Winter oats		
Spring oilseed rape		
Winter oilseed rape		
Other please specify		

*Nitrogen (N) requirement for various crops can be found in the tables in the Nitrates Guidance Booklet pages 18 for grassland and pages 68-69 for crops

2. Livestock numbers

See page 50 of the Derogation Guidance Booklet for a completed example.
Use **accurate** average cattle numbers. These livestock numbers can be calculated from herd records or Aphis online.

* If keeping calves/lambs for part year use **EITHER** 0-6 and 6-12 months **OR** the 0 – 1 year categories

Stock type	Average number for year	
Dairy Cows		
Dairy heifer (over 2 years)		
Dairy heifer (1 – 2 years)		
Breeding bull		
Dairy cattle (0-1 year) *		
Heifer calves (6-12 months) *		
Heifer calves (0-6 months) *		
Suckler cows		
Cattle (over 2 years)		
Cattle (1-2 years)		
Breeding bull		
Bull beef (0-13 months)		
Beef cattle (0-1 year) *		
Bull beef (6-13 months)		
Calves (6-12 months) *		
Calves (0-6 months) *		
Ewe over 1 year		
Ram over 1 year		
Lamb (0-1 year)*		
Lamb (6-12 months)*		
Lamb (0-6 months)*		

Stock type	Average produced for year	
Broilers (1000s)		
Male turkeys (1000s)		
Female turkeys (1000s)		
Fattening ducks (1000s)		
	Unit capacity	No. of weeks occupancy
Broiler breeders (1000s) (0-18 wks)		
Broiler breeders (1000s) (18-60wks)		
Broiler breeders (1000s) (0-60 wks)		
Pullets (1000s)		
Layers (1000s)		
	Average number for year	
Breeding Sows		
Boars		
Maiden Gilts		
For Birth to Bacon system average no. of pigs per sow per year		
For Growing and finishing farms only	**Average number for year**	
Pigs (18-35kg)		
Pigs (18-105kg)		
Pigs (35-105kg)		
Other livestock please specify		

3. Imported and exported organic manures (from records)

See page 51 of the Derogation Guidance Booklet for a completed example.
1 cubic metre (m³) = 220 gallons

Slurry type	Imported Volume (m³)	Exported Volume (m³)
Cattle slurry – 6%DM*		
Pig slurry - 4%DM*		
Separated Slurry		
Other (including N & P content)**		
Other (including N & P content)**		

Manure Type	Imported Quantity (t)	Exported Quantity (t)
Broiler/Turkey manure – 60%DM		
Cattle FYM – 25%DM		
Duck manure – 25%DM		
Layer manure – 30%DM		
Pig FYM – 25%DM		
Other (including N and P content)**		

* This represents the most common dry matter (DM) for this type of slurry.
**Manure type and N and P content of organic manures, excluding livestock manure, must also be provided in accordance with the Waste Management Licensing Regulations (NI) 2003.

Pages 2 to 5 will be used by NIEA to calculate the livestock nitrogen limit of 250 kg N per hectare per year. You can check compliance with this limit at www.ruralni.gov.uk or the Nitrates Action Programme Guidance Booklet page 17.

4. Chemical fertiliser details

See page 52 of the Derogation Guidance Booklet for a completed example.

Record the tonnage and N and P content of all chemical fertiliser stocks on 1 January and 31 December and the tonnage and N and P content of chemical fertiliser imported in and exported off the farm during 2009. This will allow NIEA to determine if you have complied with the chemical nitrogen restrictions. You can check compliance with this limit at www.ruralni.gov.uk or the Nitrates Action Programme Guidance Booklet pages 18 for grassland and pages 68-69 for crops.

Chemical fertilisers 1 January 2009 (held from 2008)

Fertiliser type for example 25:5:5			Quantity (t)
N	P (P$_2$O$_5$)	K	

Chemical fertilisers (purchased/imported and sold/exported during 2009 from 1 Jan to the 31 Dec)

(The amount recorded as purchased or imported onto the farm will also be used by NIEA to check compliance with the P balance)

Fertiliser type for example 25:5:5			Amount purchased or imported onto farm (t)	Amount sold or exported off farm (t)
N	P (P$_2$O$_5$)	K		

Chemical fertilisers 31 December 2009 (not used during year and held for 2010)

Fertiliser type for example 25:5:5			Quantity (tonnes)
N	P (P$_2$O$_5$)	K	

5   Dirty water management

How is your dirty water managed?

Stored with slurry

Stored separately

If other please specify   _____

_____

_____

6   P Balance Section

List any agricultural products containing P that are purchased /imported or sold / exported off the farm. This will allow NIEA to calculate if you have complied with the **10kg P/ha/year limit** P Balance for your farm for the year.

To assist you in ensuring that you have complied with this limit a P Balance worksheet is enclosed. If you complete the worksheet you can submit it with the rest of the Fertilisation Account and you do not have to complete this P Balance section.

Alternatively you can access the P Balance Calculator at www.ruralni.gov.uk. If using the P Balance Calculator you can print the "Detailed Balance Summary". Again this can be submitted with the rest of your Fertilisation Account and you do not have to complete this P Balance section.

Notes

Inputs include:
P in chemical fertiliser purchased / imported (quantity and P content)
P in feedstuffs purchased / imported onto farm (quantity and P content)
The P content of concentrates is taken as 5.8kg per tonne or 0.58%. If you deviate lower from this you <u>must</u> submit documentation showing the P content. Failure to submit will mean that the typical value will be used
P in any organic manure imported onto farm (quantity and P content)

Outputs include:
P in produce sold / exported off the farm, e.g. meat, milk, crops
P exported in organic manures (quantity and P content)

P balance for the calendar year = $\dfrac{\text{Inputs – Outputs}}{\text{Controlled agricultural area}}$

The P Balance limit is 10 kg P/ha/year

Step 1 – INPUTS

INPUTS - Chemical fertilisers

The purchased / imported fertiliser already entered in page 7 will be used by NIEA to check compliance.

INPUTS - Imported organic manures

The imported organic manures already entered in page 5 will be used by NIEA to check compliance.

**INPUTS - Purchased feedstuffs which includes concentrates / straights / silage / straw / hay
(Do not include home grown feedstuffs)**

Feedstuff type	Amount purchased per year (t)	Phosphorus content* (kg/t) (To convert from % P to kg/t multiply the % by 10)

*The standard total P content is 0.58% or 5.8kg per tonne for concentrates. If you purchased a concentrate with a lower P content you must supply documentation from your feed supplier to demonstrate the P content fed. Evidence should include a letter / invoice from the meal supplier containing:

- your name and address
- the P content of the meal and dated
- If you have purchased / imported different types of feed the documentation must contain the tonnage and P content of each type
- In the absence of a letterhead the note should be signed by the supplier together with their contact details.

See overleaf for an example

An example of a note from a meal supplier if you are deviating from the standard 5.8kg P per tonne of concentrates

Inshalleen Mills

Ballymills
Co. Tyrone
BT2 9ZZ

4/1/10

John Smith
1 Bigfarm Road
Ballyhome
BT2 7AG

Deliveries for the period 1 January 2009 to 31 December 2009

120 tonnes of supreme dairy mix feed with a P content of 0.45%

100 tonnes of summer grazing mix feed with a P content of 0.5%

INPUTS - Livestock bought in (both columns must be completed)

Livestock type	Number bought in year	Total Liveweight of livestock (kg)
Dropped calves (50kg)		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Pigs		
Pigs		
Pigs		
Pigs		
Other please specify		

Step 2 - P Outputs

OUPUTS – Crop Produce

Crop produce type	Amount sold per year (t)
Silage	
Hay	
Straw	
Barley	
Potatoes	
Wheat	
Oats	
Other please specify	

OUTPUT - Exported organic manures

The exported organic manures already entered in page 5 will be used by NIEA to check compliance.

OUTPUT - Livestock produce sold / exported off farm

Livestock produce type	Amount / number sold
Milk (litres)	
Wool (t)	
1000 Broilers	
1000 Broiler breeders 0-18 weeks	
1000 Broiler breeders 18-60 weeks (including eggs)	
1000 Broiler breeders 0-60 weeks (including eggs)	
1000 Layers (including eggs)	
1000 Pullets	
1000 Turkeys male	
1000 Turkeys female	
1000 Ducks	
Other	

OUTPUT - Livestock leaving the farm (both columns must be completed)

Livestock type	Number sold in year	Total Liveweight of livestock* (kg)
Dropped calves (50kg)		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Cattle		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Sheep/lambs		
Pigs		
Pigs		
Pigs		
Pigs		
Other please specify		

*Include fallen animals

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