

# [Form: Claim a facilitation fund grant and record progress: Countryside Stewardship](#)

*Updated:* Form updated to make it editable.

See the [Countryside Stewardship facilitation fund](#) page for more information.

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## [Detailed guide: Packaging of radioactive waste: specifications and guidance](#)

*Updated:* WPS/999/01 document added

### **Packaging specifications**

The RWM packaging specifications take the form of a structured hierarchy with each level having a specific purpose. The Generic Waste Package Specification (GWPS) defines the requirements for all waste packages destined for geological disposal, and provides the basis for the definition of the Generic Specifications, which define the standards and specifications for waste packages containing specific categories of waste. The Generic Specifications are used to specify the requirements for the waste packages that could be manufactured using standardised designs of waste container, these being referred to as the Waste Package Specifications (WPS)

#### [Geological Disposal – Generic Waste Package Specification](#)

(PDF, 1.9MB, 37 pages)

Please note that all the requirements from the document 'Geological disposal – Generic Waste Package Specification' have now been subsumed into the DSS Part B, verbatim. This document has therefore been superseded.

### **Generic specifications for specific categories of waste**

#### [Generic specification for waste packages containing low heat generating waste](#)

(PDF, 391KB, 57 pages)

[WPS/240/01 Generic Specification for waste packages containing high heat generating waste](#)

(PDF, 5.15MB, 67 pages)

[WPS/230/01 Generic Specification for waste packages containing depleted, natural and low enriched uranium](#)

(PDF, 1.47MB, 63 pages)

## **Waste package specifications**

[WPS/300/03 Specification for 500 litre drum waste package](#)

(PDF, 532KB, 17 pages)

[WPS/310/04 Specification for side lifting variant of 3 cubic metre box waste package](#)

(PDF, 449KB, 17 pages)

[WPS/315/05 Specification for corner lifting variant of 3 cubic metre box waste package](#)

(PDF, 2.1MB, 17 pages)

[WPS/320/04 Specification for 3 cubic metre drum waste package](#)

(PDF, 421KB, 17 pages)

[WPS/330/03 Specification for 4 metre box waste package](#)

(PDF, 549KB, 19 pages)

[WPS/340/01 Specification for miscellaneous beta gamma waste store box waste packages](#)

(PDF, 1.75MB, 17 pages)

[WPS/350/03 Specification for 2 metre box waste package](#)

(PDF, 519KB, 19 pages)

[WPS 360/03 Specification for 6 cubic metre concrete box waste package](#)

(PDF, 488KB, 17 pages)

[WPS/361/01 Specification for 500 litre concrete drum waste packages](#)

(PDF, 1.3MB, 17 pages)

[WPS/362/01 Specification for 1 cubic metre concrete drum waste packages](#)

(PDF, 1.32MB, 17 pages)

[WPS/380/01 Specification for 500 litre robust shielded drum waste packages to be transported in a SWTC-150](#)

(PDF, 2.31MB, 18 pages)

[WPS/381/01 Specification for 3 cubic metre robust shielded box waste packages for transport as part of a Type IP-2 package](#)

(PDF, 2.83MB, 18 pages)

## **Other specifications**

[WPS/400/03 Geological Disposal: Waste Package Data and Information Recording Requirements](#)

(PDF, 1.82MB, 18 pages)

[WPS/410/03 Specification for waste package identification system](#)

(PDF, 1.62MB, 12 pages)

[WPS/420/01 Management System Requirements for Waste Packaging](#)

(PDF, 1.55MB, 15 pages)

[WPS/430/01 Specification for waste containers for the packaging of low heat generating waste](#)

(PDF, 1.67MB, 19 pages)

## **Wasteform specifications and guidance**

[WPS/501/01 Wasteform specification for waste packages containing low heat generating waste](#)

(PDF, 321KB, 17 pages)

[WPS/503/01 Guidance on the production of non-encapsulated wasteforms](#)

(PDF, 1.55MB, 63 pages)

[WPS/502/01 Geological Disposal: Guidance on the production of encapsulated wasteforms](#)

(PDF, 3.15MB, 77 pages)

## **Ancillary information and guidance**

[WPS/600/02 Lifting grab for 500 litre drum waste package description and design guidelines](#)

(PDF, 191KB, 16 pages)

[WPS/601/02 Lifting frame for side lifting variant of 3 cubic metre box and 3 cubic metre drum waste package description and design guidelines](#)

(PDF, 471KB, 18 pages)

[WPS/602/02 Lifting frame for 4 metre box waste package description and design guidelines](#)

(PDF, 366KB, 18 pages)

[WPS/603/02 Lifting frame for 2 metre box waste package description and design guidelines](#)

(PDF, 348KB, 14 pages)

[WPS/604/02 Lifting frame for stillage and corner lifting variant of 3 cubic metre box waste package description and design guidelines](#)

(PDF, 465KB, 18 pages)

[WPS/605/01 Specification for stillage for the transport and disposal of 500 litre drum waste packages](#)

(PDF, 688KB, 17 pages)

[WPS/620/03 Guidance on the structure and format of waste product specifications](#)

(PDF, 1.7MB, 21 pages)

[WPS/625/02 Guidance on the preparation of criticality compliance assurance documentation for waste package proposals](#)

(PDF, 127KB, 24 pages)

[WPS630/02 Guidance on environmental conditions during storage of waste packages](#)

(PDF, 133KB, 22 pages)

[WPS/640/02 Guidance on monitoring of waste packages during storage](#)

(PDF, 230KB, 30 pages)

[WPS/650/03 An overview of the RWM Disposability Assessment Process](#)

(PDF, 2.71MB, 50 pages)

**Waste package specifications guidance material**

[WPS/701/01 Guidance on the application of the waste package specifications for unshielded waste packages](#)

(PDF, 10MB, 84 pages)

[WPS/702/01 Guidance on the application of the waste package specifications for shielded waste packages](#)

(PDF, 7.83MB, 76 pages)

[WPS/705/01 Guidance on the application of the specification for stillages for use in the transport and disposal of 500 litre drum waste packages](#)

(PDF, 2.27MB, 27 pages)

## **Miscellaneous guidance**

[WPS/850/03 Geological Disposal: Waste Package Data and Information Recording Requirements: Explanatory Material and Guidance](#)

(PDF, 1.05MB, 46 pages)

[WPS/860/03 Waste Package Identification System – Explanatory Material and Guidance](#)

(PDF, 1.68MB, 20 pages)

[WPS/870/03 Long-term Management of Information and Records – Explanatory Material and Guidance](#)

(PDF, 1.6MB, 31 pages)

## **Thematic guidance**

[WPS901/02 Geological Disposal: Guidance on the use of organic polymers for the packaging of low heat generating wastes](#)

(PDF, 14.1MB, 58 pages)

[WPS/902/02 Geological Disposal: Guidance on the packaging of radon generating wastes](#)

(PDF, 4.02MB, 44 pages)

[WPS/903 Guidance on the immobilisation of radionuclides in wasteforms](#)

(PDF, 361KB, 39 pages)

[WPS/904 Guidance on the characteristics and demonstration of robust formulation envelopes for cementitious wasteforms](#)

(PDF, 391KB, 29 pages)

[WPS/905 Guidance Note on the packaging of filters](#)

(PDF, 976KB, 41 pages)

[WPS/906 Guidance on the packaging of closed sources](#)

(PDF, 916KB, 48 pages)

[WPS/907 Guidance on the packaging of Tritium Bearing Wastes](#)

(PDF, 494KB, 47 pages)

[WPS/908/05 Guidance on the preparation of submissions for the disposability assessment of packaging proposals](#)

(PDF, 845KB, 43 pages)

[WPS/909 Guidance on the scope of periodic review of final stage Letter of Compliance](#)

(PDF, 218KB, 18 pages)

[WPS/911/02 Guidance on the application of the criticality safety requirements of the 2012 IAEA Transport Regulations](#)

(PDF, 5.81MB, 39 pages)

[WPS/912 Guidance on the sentencing of non-compliant waste packages](#)

(PDF, 265KB, 26 pages)

[WPS/914 Guidance on the issues arising from the packaging of non-encapsulated wastes](#)

(PDF, 324KB, 32 pages)

[WPS/915 Guidance on the use of grout caps in waste packages](#)

(PDF, 957KB, 36 pages)

[WPS/916 Guidance on the control of fissile material in waste packages](#)

(PDF, 5.58MB, 71 pages)

[WPS/921 Guidance on the preparation of submissions for the disposability assessment of waste packages](#)

(PDF, 285KB, 31 pages)

[WPS/923 Guidance on the application of safeguards during the packaging of higher activity waste](#)

(PDF, 2.8MB, 45 pages)

[WPS/926/01 Guidance on the use of polycarboxylate ether superplasticisers for the packaging of low heat generating wastes](#)

(PDF, 1.76MB, 25 pages)

[WPS/928/01 Geological Disposal: Guidance on the disposability of waste packages containing chemical decontamination agents](#)

(PDF, 2.02MB, 45 pages)

[WPS/929/02 Thematic Guidance on the management of Larger PCM Waste Items](#)

(PDF, 3.89MB, 79 pages)

## **Options guidance**

[Upstream Options – Overview and uses of the 6 cubic metre concrete box](#)

(PDF, 1.06MB, 53 pages)

[Upstream optioneering: centralised intermediate level radioactive waste finishing facility \(NDA/RWM/117\)](#)

(PDF, 6.84MB, 60 pages)

[WPS/999/01 Supplementary Specification for Requirements Based on the 2016 Generic Disposal System Safety Case \(gDSSC\)](#)

(PDF, 1.95MB, 20 pages)

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## **Guidance: Pet travel: approved air, sea and rail carriers and routes**

*Updated:* Updated airline and airports entries for PHS, Windsor Jet Management, Albinati Aviation, PHS, VIP Flight and Executive Jet Management.

You can only use these carriers and routes approved by the Animal and Plant Health Agency to bring your pet to England or Scotland. There are no approved routes to Wales.

You must [follow pet travel rules](#). Ask your travel company if they have extra rules you must follow.

## **Exemptions**

You don't have to use an approved carrier or route if you travel to England,

Scotland or Wales from:

- UK countries
  - the Channel Islands
  - the Isle of Man
  - the Republic of Ireland
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## [Detailed guide: Using nitrogen fertilisers in nitrate vulnerable zones](#)

*Updated:* Corrected link

You must follow this guidance if you use any manufactured fertilisers, manures or other materials that contain nitrogen on agricultural land in a nitrate vulnerable zone (NVZ).

Find out if you're in an NVZ.

You must also follow the [guidance on storing organic manures in NVZs](#) and [storing silage, slurry and agricultural fuel oil](#) if you produce or import livestock manures.

The NVZs rules are part of the requirements for cross compliance, known as Statutory Management Requirement 1. You must meet [cross compliance](#) requirements to qualify for full payment under the basic payment scheme and other direct rural payments.

### **Fertilisers that contain nitrogen**

Nitrogen fertilisers can be manufactured (inorganic, bagged) fertilisers that you buy, other materials containing nitrogen (like waste soil) or organic manures that you produce or bring on to your holding.

Organic manures come from animals, plants or humans. They include:

- slurry
- poultry manures
- solid manures (such as farmyard manure, sludge cake or compost)
- sewage sludge (also called biosolids)
- other liquid manures (such as abattoir waste or anaerobic digestate)



## How much nitrogen you can apply to your crops

There's a limit on the average amount of manufactured fertiliser and crop-available nitrogen from organic manure that you can apply to most crops each year – this is known as the N-max limit.

These are shown in the following table:

Crop	N-max limit (kilograms of nitrogen per hectare)	Standard crop yield (tonnes per hectare)
Autumn or early winter-sown wheat	220	8
Spring-sown wheat	180	7
Winter barley	180	6.5
Spring barley	150	5.5
Winter oilseed rape	250	3.5
Sugar beet	120	–
Potatoes	270	–
Forage maize	150	–
Field beans	0	–
Peas	0	–
Grass	300	–
Asparagus, carrots, radishes, swedes, individually or in any combination	180	–
Celery, courgettes, dwarf beans, lettuce, onions, parsnips, runner beans, sweetcorn, turnips individually or in any combination	280	–
Beetroot, brussels sprouts, cabbage, calabrese, cauliflower, leeks individually or in any combination	370	–

### Crops that you can apply more nitrogen to

You can apply more nitrogen to some crops if your expected yield is higher than the 'standard crop yield' shown in the table.

You can use an additional 80kg of nitrogen per hectare if you've used straw or paper sludge on the previous or current crop.

#### Wheat and barley

For wheat and barley, you can use an additional 20kg of nitrogen per hectare for every tonne that the expected yield exceeds the standard yield.

#### Milling wheat

On milling wheat varieties, you can use an additional 40kg of nitrogen per hectare.

## **Wheat and barley on shallow soils**

On autumn and winter-sown wheat and winter barley you can use an additional 20kg of nitrogen per hectare on fields with a shallow soil type (except on shallow soils over sandstone).

## **Winter oilseed rape**

On winter oilseed rape you can use up to 250kg of nitrogen per hectare. This includes a maximum autumn (closed period) application of 30kg of nitrogen per hectare of manufactured nitrogen fertiliser.

If you use 30kg of nitrogen per hectare in the autumn, you can only use up to 220kg of nitrogen per hectare in the spring. However, you can increase this by an additional 30kg of nitrogen per hectare for every half tonne that the expected yield exceeds the standard yield.

## **Grass**

On grass that's cut at least 3 times in a year, you can use an additional 40kg of nitrogen per hectare.

## **Grass grown for dehydration or chlorophyll production**

You can use nitrogen up to the level recommended in writing by a [FACTS-qualified adviser](#) if you're growing grass to achieve a protein content of at least 16% in the dried product.

If the land is irrigated, you must not use more than 700kg of nitrogen per hectare. If the land isn't irrigated, you must not use more than 500kg of nitrogen per hectare.

In subsequent years, you must sample these fields between 1 September and 31 October for soil mineral nitrogen levels and give your FACTS-qualified adviser the results.

## **How much organic manure you can use (farm and field limits)**

You can apply up to 170kg per hectare of nitrogen in livestock manure (including manure deposited directly by livestock and spreading) on your holding in each calendar year. This limit is the loading limit and applies as an average across your holding. It's separate from the field limit of 250kg per hectare from organic manures.

You must not use more than 250kg of total nitrogen from all organic manures spread in any 12 month period on any single hectare of your land. This limit (the field limit) doesn't include livestock manures deposited by grazing animals.

You must use standard values to work out how much nitrogen is produced by the livestock on your farm or bought on to your farm. You must plan so that you

don't exceed the limit.

You can find the standard values in the [blank field records and standard values tables](#) (XLSM, 128KB)

You can apply for a ['grassland derogation'](#) to increase this limit if more than 80% of your holding is grassland.

## Using compost

If the only organic manure you use is certified green or certified green/food compost, you can apply:

- up to 500kg of nitrogen per hectare every 2 years as mulch or worked into the ground
- up to 1,000kg of nitrogen per hectare every 4 years (only as mulch and in an orchard growing fruit of the genera Malus, Prunus or Pyrus)

The compost that you use must not contain livestock manure and must be produced to the [PAS100 protocol](#).

## Plan your nitrogen use

You must plan all your applications of nitrogen on each crop in each field (including grass). This is your fertilisation plan. You must keep it as part of your farm records.

To help with your plan, you can use farm software like [PLANET](#) or tools like the ['Tried and Tested'](#) nutrient management tools.

You can also use the [blank field records and standard values tables](#) (XLSM, 128KB)

to calculate how much nitrogen is available in different types of livestock manure.

Your plan must show you've taken the following steps before you apply nitrogen for the first time in a field where you're going to plant a crop or have planted a crop:

1. Calculate the amount of nitrogen in the soil that's likely to be available for the crop to use during the growing season.
2. Calculate the optimum amount of nitrogen that should be applied to the crop, taking into account the amount of nitrogen already available in the soil.
3. Calculate the amount of nitrogen from any planned applications of organic manure that's likely to be available to the crop in the growing season in which you spread it.

4. Calculate the amount of manufactured nitrogen fertiliser you need.

You must also carry out steps 1 and 2 before you apply any nitrogen fertiliser or manure for the first time.

You must carry out steps 3 and 4 every time you apply nitrogen fertiliser or manure.

In subsequent growing seasons, before you apply nitrogen to any crop or land where you're going to plant a crop (including grass) you must:

- repeat steps 1 and 2
- prepare a plan for your fertiliser use for that growing season

For permanent grassland, make your calculations based on the farming year starting on 1 January. Prepare a plan for any manure or fertiliser use for the year after that date.

## **Work out the total and crop-available nitrogen in organic manures**

Before you apply livestock manure, you must calculate the:

- total amount of nitrogen in the manure, using standard values or results from sampling and analysis
- amount of crop-available nitrogen in the manure

You can find the values you need for these calculations in the blank field records and standard values tables.

Before you apply other organic manures, work out the total amount of nitrogen and crop-available nitrogen using the technical analyses supplied by the fertiliser supplier (for example, on the delivery note).

Where these technical analyses are unavailable, typical values may be obtained from other sources such as the [Fertiliser Manual](#) (RB209) or [MANNER-NPK](#) software. The Fertiliser Manual refers to the total amount of nitrogen as 'total nitrogen'. It refers to crop-available nitrogen as 'nitrogen available to the next crop'.

You can also use values from your own sampling and analysis.

You must not spread any organic manure unless you have used one of these methods to work out the crop-available nitrogen in the manure before applying it to crops that have an N-max limit.

## **Assess the risk of run-off before spreading**

It's an offence to allow fertiliser or organic manure to enter surface water (such as rivers or ponds).

You must inspect the field to assess the risk of nitrogen getting into surface water (for example, through runoff) before you spread any fertilisers or organic manures.

In particular, when assessing the risk of runoff, you need to take account of:

- land that's sloping, especially if the slope is over 12 degrees
- ground cover provided by vegetation
- the distance to surface water
- weather conditions
- the soil type and condition
- the presence of land drains

## **Where you can't spread manufactured fertilisers or organic manures**

You must not spread any manufactured fertilisers or organic manures if a field is either:

- waterlogged, flooded or covered in snow
- frozen for more than 12 hours in the previous 24 hours

You must not spread:

- manufactured nitrogen fertiliser within 2 metres of surface water
- manufactured nitrogen fertilisers within a 2 metre zone from the centre of an established hedge (this only applies if you need to meet cross compliance requirements)
- organic manure within 50 metres of a spring, well or borehole or 10 metres of surface water

You must only spread manufactured nitrogen fertilisers and manures on agricultural land that you're using to grow crops (including grass).

You must spread manufactured nitrogen fertilisers and organic manures as accurately as possible.

## **Exceptions for precision spreading equipment for organic manures**

You can spread slurry, sewage sludge and anaerobic digestate no less than 6 metres from surface water if you use precision manure spreading equipment like:

- band spreaders (trailing hose or trailing shoe)
- shallow injectors (that inject no more than 10cm below the surface)
- dribble-bar applicators

## **Exceptions for straw-based solid manure**

You can spread straw-based solid manure (such as farmyard manure) within 10 metres of surface water on land that's notified as a site of special scientific interest or managed under an agri-environment scheme if you meet one of the following conditions:

- you're managing the land for breeding wader birds

- the land is designated as a 'species-rich semi-natural grassland'

You must only spread between 1 June and 31 October and not:

- directly into surface water
- more than 12.5 tonnes per hectare each year

## Using manures with high readily available nitrogen

Some organic fertilisers have more than 30% of their total nitrogen content immediately available to crops. These are called 'high readily available nitrogen manures'.

They include:

- poultry manure (layer manure and litter)
- liquid organic manures (such as sludge, cattle and pig slurries and anaerobic digestate)

If you use sewage sludge or slurry on your holding, you need to follow the rules in this guidance and separate rules on [managing sewage sludge, slurry and silage](#).

### When you can't spread manures with high readily available nitrogen (closed periods)

You must not spread high readily available nitrogen manures on or between the dates shown in this table.

	On grassland	On tillage land
Sandy or shallow soils	1 Sep to 31 Dec	1 Aug to 31 Dec
All other soils	15 Oct to 31 Jan	1 Oct to 31 Jan

Your soil is sandy if it lies over sandstone or it has all the characteristics shown in this table:

Layer of soil	Up to 40cm	From 40cm to 80cm
Content of the soil	more than 50% by weight of particles from 0.06mm to 2mm in diameter	more than 70% by weight of particles from 0.06mm to 2mm in diameter
	less than 18% by weight of particles less than 0.02mm in diameter	less than 15% by weight of particles less than 0.02mm in diameter
	less than 5% by weight of organic carbon	less than 5% by weight of organic carbon

Your soil is shallow if it's less than 40cm deep

## Exceptions for crops on sandy or shallow soils

If you sow a crop on sandy or shallow tillage land on or before 15 September, you can apply manures with high readily available nitrogen between 1 August and 15 September inclusive.

## Exceptions for organic farms

If you're an organic farmer, or you're formally converting to organic status, you can spread manures with high readily available nitrogen in the periods shown in the table.

You must not spread more than 150kg of total nitrogen per hectare.

Crop	When you can spread nitrogen	Additional limits on spreading
Asparagus, overwintered salad onions, parsley, bulb onions	from the start of the closed period to the end of February	
Brassica	from the start of the closed period until harvest	no more than 50kg of nitrogen per hectare every 4 weeks
Winter oilseed rape	from the start of the closed period to the end of October	
Grass	from the start of the closed period to the end of October	no more than 40kg at any one time

## Restrictions on applications outside the closed period

You must not spread more than 30 m<sup>3</sup> /ha of slurry or 8 tonnes/ha of poultry manure in a single application from the end of the closed period until the end of February. You must allow at least 3 weeks between each individual application.

The poultry manure limit remains the same but the slurry limit has been reduced from 50 m<sup>3</sup> to 30 m<sup>3</sup>.

## Equipment for spreading slurry

You must only spread slurry using precision spreading equipment or equipment that either:

- has a low spreading trajectory (below 4 metres from the ground)
- spreads slurry at a maximum rate of no more than 1 millimetre per hour when operating continuously

## Work organic manures into the soil after spreading

When you spread manure on bare soil or stubble (except if it's been sown with seed), you must:

- work poultry manure, slurry and liquid-digested sludge into the soil (for example, by ploughing) as soon as it's practically possible to do so and within 24 hours at the latest
- work any organic manure into the soil (unless it's been spread as mulch on sandy soil) as soon as possible and within 24 hours at the latest if the land is sloping and within 50 metres of surface water that could receive run-off from it

You don't have to work in slurry and liquid-digested sludge if you have applied it using a trailing hose, shoe band spreader, dribble bar applicator or an injector.

## **When you can't spread manufactured nitrogen fertilisers (closed periods)**

You must not spread manufactured nitrogen fertiliser on or between the following dates (closed periods):

- from 15 September to 15 January on grassland
- from 1 September to 15 January on tillage land

## **Exceptions to the closed periods for manufactured nitrogen fertilisers**

You can spread manufactured nitrogen fertiliser during the closed period if you grow the crops listed in the table and you keep to the limits and times shown.

If you grow crops that aren't listed in the table, you must have written advice from a FACTS-qualified adviser before you spread manufactured nitrogen fertilisers.

<b>Crop</b>	<b>Maximum amount of nitrogen you can spread within the closed period on each hectare</b>
Winter oilseed rape	30kg (you must not spread nitrogen after 31 October)
Asparagus	50kg
Brassica	100kg (no more than 50kg can be applied every 4 weeks, up to the date on which you harvest the crop)
Grass	80kg (you can apply a maximum of 40kg at any one time, and you must not spread nitrogen after 31 October)
Over-wintered salad onions	40kg
Parsley	40kg
Bulb onions	40kg



# Exemptions for greenhouses and low-intensity farms

## Greenhouses

You don't need to keep to limits on fertiliser use on land inside greenhouses, glasshouses and polytunnels where the land is enclosed for the whole calendar year. If land is exposed to the open air at any time (for example, if you uncover a polytunnel) the limits apply for the whole of that year.

You don't need to keep records of your use of nitrogen fertilisers or the yield of arable crops in a greenhouse.

## Low-intensity farms

You're a low-intensity farmer if all of the following apply to you:

- at least 80% of your land is grassland
- you apply no more than 100kg of nitrogen per hectare per year as organic manure (including any nitrogen in manure deposited on the field by livestock)
- you spread no more than 90kg of nitrogen per hectare per year as manufactured fertiliser
- you don't bring any organic manure onto your holding

You don't have to keep a record of your actual applications of manufactured fertiliser and organic manure in each field. You must have recorded information to show that you meet the criteria for low-intensity farms. You must still plan your nitrogen use by keeping a fertilisation plan.

When calculating your fertiliser applications, you must not include any area of your holding where you don't spread any fertiliser or work the soil (for example, on rough grazing areas).

## Keeping records

You must keep all records of your fertiliser use for at least 5 years.

## Fertilisation plan

You must keep records of each step in your fertilisation plan for each field in which you use nitrogen fertiliser.

### Step 1

Record the:

- name and area of the field to be planted
- type of crop to be grown
- month in which you plan to plant the crop
- soil type
- previous crop (If the previous crop was grass, record whether it was cut

or grazed)

- amount of nitrogen from the soil that is likely to become available for uptake by the crop during the growing season (the soil nitrogen supply)
- method you used to work out the soil nitrogen supply

## **Step 2**

Record the:

- anticipated yield, if it's an arable crop
- how you'll manage the crop, if it's grass (cut or grazed)
- the month when you'll plant the crop (unless the previous crop is grass and it has not been ploughed out)
- the crop nitrogen requirement, taking account of the soil nitrogen supply

You must also keep a copy of any advice from a FACTS-qualified adviser with your plan.

You can estimate your expected yield using your farm records for previous crops.

## **Step 3**

Record the:

- area (including location) to which you'll apply organic manure
- quantity and type of organic manure you'll apply
- month when you plan to apply the manure
- total nitrogen content of the organic manure
- amount of nitrogen that is likely to become available for crop uptake in the growing season in which you'll apply the organic manure

## **Step 4**

Record the:

- amount of nitrogen needed from manufactured fertiliser, taking account of the crop available nitrogen from applications of organic manure
- month when you plan to apply the manufactured fertiliser

## **Field records**

You must update your field records within 1 week of sowing, spreading fertiliser or harvesting a crop.

When you sow a crop on which you're going to spread nitrogen fertiliser, record the type of crop and the date you sowed it on.

### **When you spread manufactured fertiliser**

Record the date of spreading and the amount of nitrogen you spread.

## **When you spread organic manure**

Record the:

- area you spread
- quantity of manure you spread
- date of spreading
- method of spreading
- type of manure
- the total nitrogen content of the manure
- the amount of nitrogen that was available to the crop (crop-available nitrogen)

## **Recording nitrogen calculations**

You must keep evidence of:

- the soil nitrogen supply and how you calculated it
- the crop nitrogen requirement and how you calculated it
- any written advice from a FACTS-qualified adviser

## **Keeping laboratory reports**

You must keep original laboratory reports of any sampling and analysis you have done to find out the nitrogen content in organic manure that you use.

## **Recording yields**

You must record the yield of any arable crop on which nitrogen fertiliser has been used, within one week of finding it out.

## **Recording the size of your holding**

You must keep an up-to-date record of the total size of your holding and update it within 1 month if it changes. This applies to you if the change in area isn't land covered by a greenhouse.

The total size of your holding must include any area not covered by greenhouses and excludes surface waters, any hardstanding (areas for parking vehicles), buildings, roads or any woodland (unless that woodland is used for grazing).

## **Making a risk map**

You must make a risk map and keep it with your farm records if you spread organic manure on your land. You must mark on the map:

- the location of each field and its area in hectares
- areas with sandy or shallow soils
- land with a slope greater than 12 degrees
- land drains (except if they are sealed and impermeable)
- sites where you plan to use temporary field heaps to store manure
- all surface waters (for example, streams or ponds) and land within 10

metres of them

- all springs, wells and boreholes on your land or within 50 metres of the boundary of your land
- all land within 50 metres of a spring, well or borehole
- low run-off risk land (if you intend to spread to this land to reduce the amount of storage you need to provide)

Your risk map can be printed or drawn by hand and it doesn't need to be to scale.

You must update the map with any changes within 3 months of the date of the change.

## **Keeping records of livestock manure**

For the previous calendar year, you must complete a record by 30 April showing:

- the area of your holding in hectares
- the numbers of livestock kept on your holding
- the type of animal ('category' in the standard tables) and number of days each animal spent on your holding
- your calculation of the amount of nitrogen produced by livestock

Within 1 week of bringing livestock manure (including poultry manure and slurry) onto your holding or sending it off, you must record:

- the type and amount of manure and the date it was brought onto or sent off your holding
- the total nitrogen content of any manure you send off or bring onto your holding
- the name and address of the supplier or recipient of the manure
- a contingency plan you'll follow if the manure isn't accepted by a recipient (for example, how you plan to store the manure)

If you don't know the nitrogen content of imported manure, you must find this out (by analysis or calculation) as soon as possible, and then record it within a week.

## **Further requirements for claimants of direct payments**

You must follow the [Code of Good Agricultural Practice](#) for nitrates if you claim direct payments other than those under the [basic payment scheme](#) (for example, agri-environment payments).

## **Inspections**

The Environment Agency enforces the NVZ rules. Its officers select which farms to inspect. If you have land in an NVZ and don't comply with the NVZ rules, you may be prosecuted and fined.

The Rural Payments Agency inspects a proportion of farmers who claim under the cross-compliance scheme. If you have land in an NVZ and don't comply with the NVZ rules your payment may be reduced.

## Where to get help

Contact the Farming Advice Service for more information on using nitrogen fertilisers and manures in NVZs, and other requirements of cross compliance.

Telephone: 03000 200 301 (Monday to Friday, 8.30am to 5pm). ([See call charges](#))

Email: [advice@farmingadvice.org.uk](mailto:advice@farmingadvice.org.uk)

[Find a local FACTS-qualified adviser.](#)

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## [Detailed guide: Grassland derogations for livestock manure in nitrate vulnerable zones](#)

*Updated:* Updated to include information for 2019 Derogation application process.

You can apply up to 170kg per hectare of nitrogen in livestock manure on your holding in a nitrate vulnerable zone (NVZ) in each calendar year.

This includes manure deposited directly by grazing livestock and what you spread. This limit is the loading limit and applies as an average across your holding.

You can't get permission to use more nitrogen from non-grazing livestock (veal calves, pigs or poultry) and must keep within the 170kg per hectare limit.

Use this guide to find out how to apply for a derogation to use up to 250kg of nitrogen per hectare.

## Check if your farm is in an NVZ

Use the [What's In Your Backyard tool](#) to find out if any part of your holding is in an NVZ.

Defra continually updates this tool to show any changes to NVZ designations which may affect your derogation.

# Eligibility for a grassland derogation

You can apply for a grassland derogation to use a higher limit of up to 250kg of nitrogen per hectare, if the nitrogen comes from grazing livestock manure.

Grazing livestock are:

- cattle (except for veal calves)
- sheep
- deer
- goats
- horses

You must comply with the conditions of a derogation and the NVZ rules if your application is successful.

You can only apply for a derogation if at least 80% of the agricultural area of your holding is grass.

The agricultural area is the part of your holding you use for agricultural purposes. It doesn't include, for example:

- surface waters
- areas of hardstanding
- buildings or woodland (unless the woodland is used for grazing)
- any land covered by a greenhouse.

## Grassland derogations for 2019

You must apply between 1 October and 31 December 2018.

If you have a current derogation, this will finish on the 31 December 2018 and you must reapply for 2019.

You can apply by telephoning the Environment Agency (EA) on 03708 506 506 (Monday to Friday, 8am to 6pm).

When you apply, you must give the:

- farm name, address and your County Parish Holding (CPH) number
- agricultural area and grassland area of your farm in hectares on 1 January of the year for which you are applying
- amount of manure nitrogen produced by grazing livestock kept on your farm during the calendar year in kilograms of nitrogen (kgN)
- amount of manure nitrogen produced by grazing livestock you intend to bring onto or send off your farm during the calendar year (kgN)
- total amount of manure nitrogen from grazing livestock on your farm during the calendar year (kgN)
- amount of manure nitrogen produced by non-grazing livestock on your farm during the calendar year (kgN)
- amount of manure nitrogen produced by non-grazing livestock you intend to bring onto or send off your farm during the calendar year (kgN)
- total amount of manure nitrogen from non-grazing livestock on your farm

during the calendar year (kgN)

The EA will use these to calculate whether you're able to stay within the 250kg of nitrogen per hectare limit from grazing livestock.

You can use  
[standard values tables](#)  
(XLSM, 128KB)

or farm software to do these calculations before you apply.

The EA will assess your application on the call, and tell you if you're eligible for a derogation. If you're eligible, they'll send you a written approval notice.

You must formally agree to fulfil the conditions of your derogation by signing and returning the approval notice to the EA.

The European Commission has ultimate control over the use of derogations. This may mean that derogations:

- are not available in 2019
- will end earlier than 31 December 2019

If this happens, the EA will tell you as soon as possible.

## **Apply in Northern Ireland, Scotland and Wales**

You must apply for the derogation:

- through the [Northern Ireland Environment Agency \(NIEA\)](#) in Northern Ireland
- through the [Scottish Government website](#) in Scotland
- by calling the NVZ Wales helpline in Wales: 01824 704060

Find out about [call charges](#)

## **Reasons why your application may be unsuccessful**

If you don't meet the eligibility criteria or don't apply during the specified dates your application will be rejected.

If your holding is near a [special area of conservation or a special protection area](#), the EA will carry out an assessment of risks to the environment. The EA can withdraw a previously approved derogation after they've assessed this.

The EA may also refuse to give you a derogation if you had a derogation during a previous year but didn't follow all the conditions for that derogation.

## How to appeal if your application is refused

You can appeal within 30 days of your application being rejected. An independent panel will consider your appeal.

Contact the Defra Helpline or email [nitratesdirectiveteam@defra.gsi.gov.uk](mailto:nitratesdirectiveteam@defra.gsi.gov.uk) to find out how to appeal.

## Defra Helpline

Seacole Building

2 Marsham Street  
London  
SW1P 4DF

Contact form

<https://www.gov.uk/gui...>

Telephone (UK only)

03459 33 55 77

Telephone (from outside the UK)

+44 20 7238 6951

The quickest way to get a response is to call our Helpline which is open Monday to Friday 8:30am to 5:00pm (find out about call charges at [www.gov.uk/call-charges](http://www.gov.uk/call-charges)). Alternatively you can email us, or write to us at the postal address given above. We aim to reply to emails or letters within fifteen working days.

## Derogation conditions

You must meet all the conditions of your derogation and follow the [rules that apply when using nitrogen fertilisers](#) and [storing organic manures](#) in NVZs.

If you don't meet the conditions of a derogation for the year it covers:

- the EA may fine you
- you may not be eligible to apply for a derogation in the following year

You won't be allowed to apply more than 170kg of nitrogen per hectare in livestock manure, averaged across your holding, if the EA either:

- withdraws your derogation
- decides you're ineligible to apply for a derogation the following year



## **Ploughing grassland if you have a derogation**

If you plough grassland where you have a derogation, you must plant one of the following:

- a crop with a high nitrogen demand (for example, grass, potatoes, sugar beet, maize) within 4 weeks from the date of ploughing
- grass within 6 weeks from the date of ploughing

You must not plough temporary grassland on sandy soils between 1 July and 31 December.

You must not plough any area of grass before 16 January if you've spread livestock manure on that area in the previous year between:

- 1 September and 31 December on sandy soils
- 15 October and 15 January on all other soils

## **Crops you can't grow in rotation with grassland**

You must not grow leguminous or other atmospheric nitrogen-fixing plants in your rotation, except:

- grass with less than 50% clover
- legumes under-sown with grass

## **Create a phosphate plan**

You must plan the amount of phosphate fertiliser you put on your land in an NVZ.

You must take the following steps before you use phosphate for the first time in a field where you're going to plant a crop or have planted a crop:

1. Calculate the amount of phosphate in the soil that's likely to be available for the crop to use during the growing season.
2. Calculate the amount of phosphate that should be applied to the crop to get the best crops, taking into account the phosphate already available in the soil.
3. Calculate the amount of phosphate from any planned applications of organic manure that's likely to be available to the crop in the growing season in which you spread it.
4. Calculate the amount of manufactured phosphate fertiliser you will need.

You must also carry out steps 3 and 4 every time you spread manure or fertiliser.

Before you use manure or fertiliser on any crop (including grass) in following growing seasons, you must:

- repeat steps 1 and 2
- plan your fertiliser use for that growing season

For permanent grassland, make your calculations based on the farming year starting on 1 January.

You can use the standard values tables (XLSM, 128KB) to calculate how much nitrogen and phosphate is contained in different types of livestock manure.

Alternatively, you can use the [PLANET](#) farm software or the [‘Tried and Tested’ nutrient management tools](#).

## Sample and analyse your soil: field records

You must sample and analyse the soil at least once every 4 years. This will tell you the amount of phosphorus in the soil that’s likely to be available for the crop to use during the growing season.

You must do this for at least every 5 hectares of your holding that has the same cropping and soil type. Use either the [PLANET Nutrient Management software](#) or the [fertiliser manual \(RB209\)](#) to find out how to do this.

You can use existing soil sampling results if they’re less than 4 years old when your derogation starts.

If you haven’t got sampling data that’s less than 4 years old, you’ll need to sample 75% of your farm area in the first year of your derogation. You then need to sample the remaining 25% of your farm area in the year of your next derogation.

## Record keeping

In your fertilisation plan and field records you must record your nitrogen use and any phosphate you use from:

- manufactured fertilisers
- organic manures

You must record how much phosphate and nitrogen any manure contains within 1 week of bringing it onto your holding.

If you don’t know the phosphate content of manure you bring onto your farm, you must analyse or calculate the amount. Record the amount within a week of finding it out.

By 1 March of each year in which you have a derogation, you must have the following information recorded:

- the size of the agricultural area of your holding in hectares (update within 1 month if this changes)
- the size of the area of grassland for that calendar year in hectares (update within 1 month if this changes)
- a written description of the livestock housing and manure storage systems you have on your farm, including the volume of the manure storage available
- the numbers and type of livestock you expect to have on your holding

during the remaining part of the calendar year

- an estimate of the manure nitrogen and phosphate that your livestock will produce during the current calendar year

## Submit your fertilisation account

You must send the EA details about your farming practices and fertiliser use for the period 1 January to 31 December. You must send the details by 30 April in the year following the derogation. This is your fertilisation account. You must do this for each you have a derogation.

Your fertilisation account must show the total agricultural area of your derogated holding and the area (in hectares) covered by each of the following crops:

- winter wheat
- spring wheat
- winter barley
- spring barley
- winter oilseed rape
- sugar beet
- potatoes
- forage maize
- grass

You need to show the area covered by other crops (for example, vegetables, lucerne, flowers), but the specific crop does not need to be named.

Your fertilisation plan must also show the:

- number and category of livestock kept on your farm, and the amount of nitrogen and phosphate in the manure they produce (according to the categories in the [standard values tables](#) (XLSM, 128KB))
- amount and type of livestock manure brought on or sent off your farm, together with the total amount of nitrogen and phosphate in that manure
- weight in tonnes and nitrogen content of all manufactured nitrogen fertiliser stocks kept on, brought in or sent off your farm during the calendar year

You can submit your fertilisation account records by email to [regaware@environment-agency.gov.uk](mailto:regaware@environment-agency.gov.uk) or by post to:

Regulation Awareness Team

National Customer Contact Centre

The Environment Agency

Quadrant 2

Parkway Business Park

Sheffield

S9 4WF

## **Inspections**

The EA may inspect your farm to make sure you're meeting conditions of your derogation.

The Rural Payments Agency may inspect you if you claim basic farm payments as part of your cross-compliance requirements.

## **Contact the Farming Advice Service**

Contact the Farming Advice Service for more information on using nitrogen fertilisers and manures in NVZs and other requirements of cross compliance.

Telephone: 03000 200 301 (Monday to Friday, 8am to 6pm)

Email: [advice@farmingadvice.org.uk](mailto:advice@farmingadvice.org.uk)