
STATUTORY INSTRUMENTS

2008 No. 2349

AGRICULTURE, ENGLAND
WATER, ENGLAND

The Nitrate Pollution Prevention Regulations 2008

Made - - - - 1st September 2008
Laid before Parliament 4th September 2008
Coming into force in accordance with regulation 3

The Secretary of State, in exercise of the powers conferred by section 2(2) of the European Communities Act 1972 ^{M1}, being designated ^{M2} in relation to the environment,

having taken into account available scientific and technical data, mainly with reference to the respective nitrogen contributions originating from agricultural and other sources, and the environmental conditions of the nitrate vulnerable zones in England as required by Article 5(3) of Council Directive [91/676/EEC](#) (concerning the protection of waters against pollution caused by nitrates from agricultural sources ^{M3}),

makes the following Regulations:

Marginal Citations

- M1** [1972 c. 68.](#)
M2 [S. I. 2008/301.](#)
M3 [OJ No. L 375, 31,12,1991, p. 1.](#)

PART 1

Introduction

Citation

1. These Regulations may be cited as the Nitrate Pollution Prevention Regulations 2008.

Application

- 2.—(1) These Regulations apply in England.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

(2) Parts 3 to 8 only apply in relation to a holding in a nitrate vulnerable zone designated as such in these Regulations (in the case of a holding partly in a nitrate vulnerable zone, they apply only in the part of the holding inside the zone, and a reference to a holding is a reference to that part).

Coming into force

3.—(1) These Regulations (other than regulation 22(1) and Part 7) come into force on 1st January 2009.

[^{F1}(2) Regulation 22(1) and Part 7 come into force on 1st January 2012, unless the holding is within an area marked as a NVZ deferred slurry storage area on the maps marked “Nitrate Vulnerable Zones (England 2009)” and deposited at the offices of the Secretary of State for Environment, Food and Rural Affairs, Nobel House, 17 Smith Square, London SW1P 3JR, where these provisions come into force on 1st January 2013.]

Textual Amendments

F1 Reg. 3(2) substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), 3(2)

Transitional measures for holdings not previously in a nitrate vulnerable zone

4. In a holding or part of a holding which was not part of a nitrate vulnerable zone under the Protection of Water Against Agricultural Nitrate Pollution (England and Wales) Regulations 1996^{M4} or the Nitrate Vulnerable Zones (Additional Designations) England (No. 2) Regulations 2002^{M5}, but which is designated as part of a nitrate vulnerable zone under these Regulations—

- (a) Parts 3 and 4, regulations 19 to 21, 22(2), 23, Part 6 and Part 8 do not apply until 1st January 2010, and
- (b) the requirements in regulations 35(1) and 36(1) to record the size of the holding and storage capacity do not apply until 30th April 2010.

Marginal Citations

M4 S. I. 1996/888.

M5 S. I. 2002/2614.

Meaning of “polluted water”

5. Water is polluted if—

- (a) it is freshwater and contains a concentration of nitrates greater than 50 mg/l, or could do so if these Regulations were not to apply there, or
- (b) it is eutrophic or may in the near future become eutrophic if these Regulations were not to apply there.

Interpretation

[^{F2}6. In these Regulations—

“Agency” means the Environment Agency;

“agricultural area” means any agricultural land used for agricultural purposes;

“agriculture” has the same meaning as in section 109(3) of the Agriculture Act 1947;

“crop with high nitrogen demand” includes, but not limited to, grass, potatoes, sugar beet, maize, wheat, oilseed rape, barley, brassicas, rye and triticale;

“deemed derogation” means a derogation granted under regulation 13B;

“derogated holding” means a holding over which a derogation has been granted;

“derogation” means a derogation from the limit of the total amount of nitrogen in livestock manure that can be applied to land each year as provided for in paragraph 2(b) of Annex III of Council Directive 91/676/EEC granted by the Commission Decision 2009/431/EEC and deemed or granted by the Agency or, on appeal, the derogation application appeals panel under regulation 13C;

“derogation application” means an application for a derogation;

“eutrophic” means water that is enriched by nitrogen compounds, causing an accelerated growth of algae and higher forms of plant life that produces an undesirable disturbance to the balance of organisms present in the water and to the quality of the water concerned;

“fertilisation plan” means a plan prepared under regulation 14(1)(c) or other similar plans required under Schedule 4;

“grass” means—

- (a) permanent grassland or temporary grassland (temporary means for less than four years);
- (b) existing between the sowing and ploughing the grass; and
- (c) including crops under-sown with grass,

but does not include grassland with 50% or more clover;

“grazing livestock” means any animal specified in Table 1 in Schedule 1;

“holding” means all the land located within a nitrate vulnerable zone and its associated buildings that are at the disposal of the occupier and which are used for the growing of crops in soil or rearing of livestock for agricultural purposes;

“land that has a low run-off risk” means land that—

- (a) has an average slope less than 3°;
- (b) does not have land drains (other than a sealed impermeable pipe); and
- (c) is at least 50 metres from a watercourse or conduit leading to a watercourse;

“livestock” means any animal (including poultry) specified in Schedule 1;

“manufactured nitrogen fertiliser” means any nitrogen fertiliser (other than organic manure) manufactured by an industrial process;

“manufactured phosphate fertiliser” means any phosphate fertiliser (other than organic manure) manufactured by an industrial process;

“nitrogen fertiliser” means any substance containing one or more nitrogen compounds used on land to enhance growth of vegetation and includes organic manure;

“non-grazing livestock” means any animal specified in Table 2 in Schedule 1;

“organic manure” means any nitrogen fertiliser or phosphate fertiliser derived from animal, plant or human sources and includes livestock manure;

“phosphate fertiliser” means any substance containing one or more phosphorus compounds used on land to enhance growth of vegetation and includes organic manure;

“poultry” means poultry specified in Schedule 1;

“sandy soil” means any soil over sandstone, and any other soil where—

- (a) in the layer up to 40 cm deep, there are—

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

- (i) more than 50 per cent by weight of particles from 0.06 to 2 mm in diameter,
 - (ii) less than 18 per cent by weight of particles less than 0.02 mm diameter, and
 - (iii) less than 5 per cent by weight of organic carbon; and
- (b) in the layer from 40 to 80 cm deep, there are—
- (i) more than 70 per cent by weight of particles from 0.06 to 2mm in diameter,
 - (ii) less than 15 per cent by weight of particles less than 0.02 mm diameter, and
 - (iii) less than 5 per cent by weight of organic carbon;

“shallow soil” is soil that is less than 40 cm deep;

“slurry” means excreta produced by livestock (other than poultry) while in a yard or building (including any bedding, rainwater or washings mixed with it) that has a consistency that allows it to be pumped or discharged by gravity (in the case of excreta separated into its liquid and solid fractions, the slurry is the liquid fraction);

“spreading” includes application to the surface of the land, injection into the land or mixing with the surface layers of the land but does not include the direct deposit of excreta on to land by animals.]

Textual Amendments

- F2** Reg. 6 substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **3(3)**

PART 2

Designation of nitrate vulnerable zones

Designation of nitrate vulnerable zones

7.—(1) The areas marked as nitrate vulnerable zones on the maps marked “Nitrate Vulnerable Zones (England 2008)”^{M6} and deposited at the offices of the Secretary of State for Environment, Food and Rural Affairs, Nobel House, 17 Smith Square, London SW1P 3JR are designated as nitrate vulnerable zones for the purposes of these Regulations.

(2) These are areas of land that drain into polluted waters and that contribute to the pollution of those waters.

Marginal Citations

- M6** These maps, for illustrative purposes only, can be accessed on <http://nvz.adasis.co.uk/maps/index/html>, but the version deposited at the offices of the Secretary of State is the definitive version.

Application for a declaration

8.—(1) The owner or occupier of any holding within a nitrate vulnerable zone may apply to an independent panel appointed by the Secretary of State for the purpose of these Regulations for a finding that the holding or part of it—

- (a) does not drain into water identified by the Secretary of State as being polluted, or
- (b) drains into water that the Secretary of State should not have identified as being polluted,

and accordingly the land should not be designated as a nitrate vulnerable zone.

- (2) An application must be based on either—
 - (a) data provided by the applicant, or
 - (b) evidence provided by the applicant that the data used by the Secretary of State were incorrect.
- (3) The Secretary of State must publish the manner and form in which the application must be made.
- (4) An application must be made in writing on or before 31st January 2009, must be made in the manner and form published by the Secretary of State and must include all the documentation that the applicant relies on.

Proceedings before the panel

- 9.**—(1) The panel must consist of an odd number of persons, and make its decision either unanimously or by a simple majority.
- (2) The panel must consider the application and make a finding whether or not the applicant has demonstrated, on the balance of probabilities, that the holding or part of it—
 - (a) does not drain into water identified by the Secretary of State as being polluted; or
 - (b) drains into water that the Secretary of State should not have identified as being polluted;
 - (3) The panel must arrive at its decision based on documentation submitted to it unless it decides that it needs additional information to form a judgment, in which case it may request an applicant, or the Secretary of State, to provide additional material, and in exceptional circumstances may convene an oral hearing.
 - (4) At an oral hearing the applicant and the Secretary of State have the right to appear, and the panel may permit any other person to appear.
 - (5) All parties must bear their own costs.

Effect of panel findings

- 10.**—(1) If the panel decides in favour of the applicant, the holding to which the application applies is no longer treated for the purposes of these Regulations as being in a nitrate vulnerable zone.
- (2) If the panel finds that any body of water should not have been identified as being polluted, any holding draining into that body of water is no longer treated for the purposes of these Regulations as being in a nitrate vulnerable zone and the Secretary of State must immediately notify the occupier of such a holding.
 - (3) The Secretary of State must publish all findings by the panel on the Secretary of State's website.

Review of nitrate vulnerable zones

- 11.**—(1) The Secretary of State must keep under review the eutrophic state of fresh surface waters, estuarial and coastal waters.
- (2) Before 1st January 2013, and at least every four years subsequently, the Secretary of State must monitor the nitrate concentration in freshwaters over a period of one year—
 - (a) at sampling stations that are representative of surface water, at least monthly and more frequently during flood periods, and

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Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

- (b) at sampling stations that are representative of groundwater, at regular intervals and taking into account the provisions of Council Directive [98/83/EC](#) on the quality of water intended for human consumption ^{M7},

except for those sampling stations where the nitrate concentration in all previous samples taken for this purpose has been below 25 mg/l and no new factor likely to increase the nitrate content has appeared, in which case the monitoring programme need be repeated only every eight years.

(3) Nitrate concentration must be measured in accordance with the reference methods of measurement referred to in Article 4a(3) of Council Decision [77/795/EEC](#) establishing a common procedure for the exchange of information on the quality of surface fresh water in the Community ^{M8}.

- (4) At the end of each four-year or eight-year period at the latest the Secretary of State must—
- (a) identify water that is or could be affected by pollution if the controls in these Regulations are not applied in that area, using the criteria in Annex I to Council Directive [91/676/EEC](#) concerning the protection of waters against pollution caused by nitrates from agricultural sources ^{M9};
 - (b) identify land that drains into those waters, or water similarly identified in Wales or Scotland, and that contributes to the pollution of those waters;
 - (c) take into account changes and factors unforeseen at the time of the previous designation; and
 - (d) if necessary revise or add to the designation of nitrate vulnerable zones.

Marginal Citations

M7 OJ No. L330, 5.12.1998, p. 32.

M8 OJ No. L334, 24. 12. 1977, p. 29 as last amended by the 2003 Act of Accession.

M9 OJ No. L375, 31.12. 1991, p. 1 as amended by Regulation (EC) 1882/2003 (OJ No. L284, 31.10.2003, p. 1).

PART 3

Limiting the application of organic manure

Application of livestock manure – total nitrogen limit for the whole holding

12.—(1) [^{F3}Except where the occupier has been granted a derogation,] the occupier of a holding must ensure that, in any year beginning 1st January, the total amount of nitrogen in livestock manure applied to the holding, whether directly by an animal or by spreading, does not exceed 170 kg multiplied by the area of the holding in hectares.

(2) The amount of nitrogen produced by livestock must be calculated in accordance with Schedule 1.

(3) In calculating the area of the holding for the purposes of ascertaining the amount of nitrogen permitted to be spread on the holding, no account is taken of surface waters, any hardstanding, buildings, roads or any woodland unless that woodland is used for grazing.

Textual Amendments

- F3** Words in [reg. 12\(1\)](#) inserted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **4(2)**

Spreading organic manure – nitrogen limits per hectare

13. The occupier of a holding must ensure that, in any twelve-month period, the total amount of nitrogen in organic manure spread on any given hectare on the holding does not exceed 250kg.

[^{F4}PART 3A

Derogation

Textual Amendments

- F4** Pt. 3A inserted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **5**

Application for a derogation

13A.—(1) An occupier of any holding or any person on the occupier’s behalf (“the applicant”) may apply to the Agency for a derogation where 80% or more of the agricultural area is sown with grass.

(2) A derogation application must be submitted between the following dates—

- (a) 1st January 2010 and 31st March 2010 for a 2010 derogation;
- (b) in relation to an application for any year after 2010, 1st October and 31st December in the calendar year preceding that in respect of which the application is made.

(3) The Secretary of State must publish the manner and form in which the application must be made.

(4) The Agency must grant or refuse a derogation application as soon as practicable and notify the applicant of the decision in writing and, where the Agency refuses a derogation application, must give reasons for the refusal at the same time.

(5) The Agency must refuse a derogation application where it considers the granting of the derogation would have an adverse effect on the integrity of—

- (a) a European site; or
- (b) a European offshore marine site,

where those sites have been subject to an appropriate assessment under regulation 48 of the Conservation (Natural Habitats, & c.) Regulations 1994.

(6) Where the Agency has refused to grant the derogation application, the applicant may appeal in accordance with the procedure set out in regulation 13C.

(7) Where the Agency has granted the derogation application, the holding to which the derogation applies shall be designated by the Agency as a derogated holding for the calendar year in respect of which the application was made.

(8) The occupier must keep a record of the derogation application and decision.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

(9) In this regulation—

- (a) “European offshore marine site” means a European offshore marine site within the meaning of regulation 15 (meaning of European offshore marine site) of the Offshore Marine Conservation (Natural Habitats, &c.) Regulations 2007; and
- (b) “European site” means a European site within the meaning of regulation 10 (meaning of European site) of the Conservation (Natural Habitats, &c.) Regulations 1994.

Deemed derogation

13B.—(1) Where 70% or more of a holding’s agricultural area is sown with grass during the 2009 calendar year the holding is deemed to be a derogated holding for that calendar year.

(2) An occupier of a holding deemed to be a derogated holding under paragraph (1) who has applied livestock manure to the holding above the 170kg limit in Regulation 12(1) must record the percentage of the holding’s agricultural area sown with grass during 2009.

Appeal against refusal of a derogation application

13C.—(1) Where the Agency has refused a derogation application, the applicant may by notice appeal the decision to an independent panel appointed by the Secretary of State for the purpose of these Regulations (“the derogation application appeals panel”).

(2) An appeal against a refusal of a derogation application must be submitted within 30 days beginning on the day after the date of the refusal.

(3) The Secretary of State must publish the manner and form in which an appeal must be made.

Proceedings of the derogation application appeals panel

13D.—(1) The derogation application appeals panel must consist of an odd number of persons, not being less than 3 persons, and make its decision by a simple majority.

(2) The derogation application appeals panel must consider the appeal and determine whether or not to allow the appeal.

(3) The derogation application appeals panel must arrive at its decision based on documentation submitted to it by the appellant and the Agency, unless it decides that it needs additional information to form a judgement, in which case it may—

- (a) request the appellant, or the Agency, to provide additional material; and
- (b) in exceptional circumstances may convene an oral hearing.

(4) At an oral hearing the appellant and the Agency have the right to appear.

(5) All parties must bear their own costs.

Effect of derogation application appeals panel findings

13E.—(1) If the derogation application appeals panel allows the appeal, the holding to which the derogation application applies must be designated by the Agency as a derogated holding for that calendar year.

(2) The derogation application appeals panel must—

- (a) notify the Agency, the applicant and the Secretary of State, as soon as reasonably practicable, of its findings; and
- (b) where the appeal is refused, give reasons for the refusal.

Derogated holdings

13F. Schedule 4 has effect in relation to derogated holdings.]

PART 4

Crop requirements

Planning the spreading of nitrogen fertiliser

14.—(1) An occupier of a holding who intends to spread nitrogen fertiliser must—

- (a) calculate the amount of nitrogen in the soil that is likely to be available for uptake by the crop during the growing season (“the soil nitrogen supply”);
- (b) calculate the optimum amount of nitrogen that should be spread on the crop, taking into account the amount of nitrogen available from the soil nitrogen supply; and
- (c) produce a plan for the spreading of nitrogen fertiliser for that growing season.

(2) In the case of any crop other than permanent grassland, the occupier must do this before spreading any nitrogen fertiliser for the first time for the purpose of fertilising a crop planted or intended to be planted.

(3) In the case of permanent grassland the occupier must do this each year beginning 1st January before the first spreading of nitrogen fertiliser.

(4) The plan must be in permanent form.

(5) The plan must record—

- (a) the reference or name of the relevant field;
- (b) the area of the field planted or intended to be planted; and
- (c) the type of crop.

(6) For the area planted or intended to be planted the plan must record—

- (a) the soil type;
- (b) the previous crop (if the previous crop was grass, whether it was managed by cutting or grazing);
- (c) the soil nitrogen supply calculated in accordance with paragraph (1) and the method used to establish this figure;
- (d) the anticipated month that the crop will be planted;
- (e) the anticipated yield (if arable); and
- (f) the optimum amount of nitrogen that should be spread on the crop, taking into account the amount of nitrogen available from the soil nitrogen supply.

Additional information to be recorded during the year

15.—(1) Before spreading organic manure, the occupier must on each occasion calculate the amount of nitrogen from that manure that is likely to be available for crop uptake in the growing season in which it is spread.

(2) The occupier must, before spreading the organic manure, record—

- (a) the area on which the organic manure will be spread;
- (b) the quantity of organic manure to be spread;
- (c) the planned date for spreading (month);

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

- (d) the type of organic manure;
 - (e) the total nitrogen content of the organic manure; and
 - (f) the amount of nitrogen likely to be available from the manure intended to be spread for crop uptake in the growing season in which it is spread.
- [^{F5}(3) Before spreading manufactured nitrogen fertiliser, the occupier must record—
- (a) the amount required; and
 - (b) the planned date for spreading (month).]

Textual Amendments

F5 Reg. 15(3) substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **6(2)**

Total nitrogen spread on a holding

- 16.** Irrespective of the figure in the plan, an occupier must ensure that the total amount of—
- [^{F6}(a) nitrogen from manufactured nitrogen fertiliser, and]
 - [^{F7}(b) nitrogen available for crop uptake from livestock manure in the growing season in which it is spread, calculated in accordance with regulation 17,]

spread on the following crops ^{F8}... does not exceed the following limits in any twelve-month period (the total amount of nitrogen permitted to be spread on any given crop is the figure in the second column, adjusted in accordance with the notes to the table and multiplied by the total area in hectares of that crop sown on the holding).

Maximum Nitrogen

Crop	Permitted amount of nitrogen (kg)¹	Standard yield (tonne/ha)
Autumn or early winter sown wheat	220 ²³⁴	8.0
Spring-sown wheat	180 ³⁴	7.0
Winter barley	180 ²³	6.5
Spring barley	150 ³	5.5
Winter oilseed rape	250 ⁵	3.5
Sugar beet	120	n/a
Potatoes	270	n/a
Forage maize	150	n/a
Field beans	0	n/a
Peas	0	n/a
Grass	330 ⁶	n/a

Notes

1

An additional 80 kg per hectare is permitted to all crops grown in fields if the current or previous crop has had straw or paper sludge applied to it.

2

An additional 20 kg per hectare is permitted on fields with shallow soil (other than shallow soils over sandstone).

3

An additional 20 kg per hectare is permitted for every tonne that the expected yield exceeds the standard yield.

4

An additional 40 kg per hectare is permitted to milling wheat varieties.

5

[^{F9}This is inclusive of any nitrogen that is applied as an exemption to the closed period for manufactured nitrogen fertiliser. The permitted amount may be increased by up to 30 kg per hectare for every half tonne that expected yield exceeds the standard yield.]

6

An additional 40 kg per hectare is permitted to grass that is cut at least three times a year. From 1st January 2012 the permitted amount of nitrogen drops to 300 kg per hectare.

Textual Amendments

- F6** Reg. 16(a) substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **6(3)(a)**
- F7** Reg. 16(b) substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **6(3)(b)**
- F8** Words in reg. 16 omitted (28.12.2009) by virtue of [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **6(3)(c)**

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

F9 Words in reg. 16 table substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **6(3)(d)**

Calculating the amount of nitrogen available for crop uptake from livestock manure

17.—(1) For the purposes of regulation 16, the occupier must first establish the total amount of nitrogen in the manure, either using the standard table in Schedule 2 or by sampling and analysis in accordance with that Schedule.

(2) Once the total amount of nitrogen in the manure has been established, the following percentages are assumed to establish the amount of nitrogen in the manure that is available for crop uptake in the growing season in which it is spread.

<i>Type of livestock manure</i>	Available percentage	
	<i>Amount of nitrogen available for crop uptake in the growing season in which it is spread</i>	
	<i>Until 1st January 2012</i>	<i>From 1st January 2012</i>
Cattle slurry	20%	35%
Pig slurry	25%	45%
Poultry manure	20%	30%
Other livestock manure	10%	10%

PART 5

Controlling the spreading of nitrogen fertiliser

Risk maps

18.—(1) Before 1st January 2010 an occupier of a holding who spreads organic manure on that holding must produce a map of the holding (“a risk map”) in accordance with this regulation.

(2) If circumstances change the occupier must update the risk map within three months of the change.

(3) The risk map must show—

- (a) each field, with its area in hectares;
- (b) all surface waters;
- (c) any boreholes, springs or wells on the holding or within 50 metres of the holding boundary;
- (d) areas with sandy or shallow soils;
- (e) land with an incline greater than 12°;
- (f) land within 10 metres of surface waters;
- (g) land within 50 metres of a borehole, spring or well;
- (h) land drains (other than a sealed impermeable pipe);
- (i) sites suitable for temporary field heaps if this method of storing manure is to be used;
- (j) land that has a low run-off risk (this is optional for an occupier who does not intend to spread manure on land that has a low run-off risk during the storage period in accordance with regulation 34).

- (4) The occupier must keep a copy.

When to spread fertiliser

19.—(1) An occupier who intends to spread nitrogen fertiliser must first undertake a field inspection to consider the risk of nitrogen getting into surface water.

(2) No person may spread nitrogen fertiliser on that land if there is a significant risk of nitrogen getting into surface water, taking into account in particular—

- (a) the slope of the land, particularly if the slope is more than 12°;
- (b) any ground cover;
- (c) the proximity to surface water;
- (d) the weather conditions;
- (e) the soil type; and
- (f) the presence of land drains.

(3) No person may spread nitrogen fertiliser if the soil is waterlogged, flooded or snow covered, or has been frozen for more than 12 hours in the previous 24 hours.

Spreading manufactured fertiliser near surface water

[^{F10}20. No person may spread manufactured nitrogen fertiliser within 2 metres of surface water.]

Textual Amendments

F10 Reg. 20 substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009](#) (S.I. 2009/3160), regs. 1(b), 7(2)

Spreading organic manure near surface water, boreholes, springs or wells

21.—(1) No person may spread organic manure within 10 metres of surface water.

(2) But livestock manure (other than slurry and poultry manure) may be spread there if—

- (a) it is spread on land managed for breeding wader birds or as a species-rich semi-natural grassland and the land is—
 - (i) notified as a Site of Special Scientific Interest under the Wildlife and Countryside Act 1981 ^{M10}; or
 - (ii) subject to an agri-environment commitment entered into under Council Regulation (EC) No. 1257/1999 (on support for rural development from the European Agricultural Guidance and Guarantee Fund (EAGGF) ^{M11}) or under Council Regulation (EC) No. 1698/2005 (on support for rural development by the European Agricultural Guidance and Guarantee Fund (EAGGF) ^{M12});
- (b) it is spread between 1st June and 31st October inclusive;
- (c) it is not spread directly on to surface water; and
- (d) the total annual amount does not exceed 12.5 tonnes per hectare.

(3) No person may spread organic manure within 50 metres of a borehole, spring or well.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

Marginal Citations

M10 1981 c. 69.

M11 OJ No. L160, 26.6.1999, p. 80.

M12 OJ No. L277, 21.10.2005, p. 1.

Controlling how nitrogen fertiliser is spread

[^{F11}**22.**—(1) Subject to paragraph (2), any person spreading slurry must use spreading equipment with a spreading trajectory less than 4 metres from the ground.

(2) Spreading equipment with a spreading trajectory of more than 4 metres from the ground can be used where such equipment can achieve an average slurry application rate of not more than 2 millimetres per hour when it is operating continuously.

(3) Any person spreading nitrogen fertiliser must do so in as accurate manner as possible.]

Textual Amendments

F11 Reg. 22 substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009](#) (S.I. 2009/3160), regs. 1(b), **7(3)**

Incorporating organic manure into the ground

23.—(1) Any person who applies organic manure on to the surface of bare soil or stubble (other than soil that has been sown) must ensure that it is incorporated into the soil in accordance with this regulation.

(2) Poultry manure must be incorporated as soon as practicable, and within 24 hours at the latest.

(3) Slurry and liquid digested sewage sludge (that is, liquid from the treatment of sewage sludge by anaerobic digestion) must be incorporated as soon as practicable, and within 24 hours at the latest, unless it was applied in separated bands.

(4) Any other organic manure (other than organic manure spread as a mulch on sandy soil) must be incorporated as soon as practicable, and within 24 hours at the latest, if the land is within 50 metres of surface water and slopes in such a way that there may be run-off to that water.

PART 6

Closed periods for spreading nitrogen fertiliser

Meaning of “organic manure with high readily available nitrogen”

24. In this Part “organic manure with high readily available nitrogen” means organic manure in which more than 30 per cent of the total nitrogen content is available to the crop at the time of spreading.

Closed periods for spreading organic manure with high readily available nitrogen

25. No person may spread organic manure with high readily available nitrogen on land during the following dates, all inclusive (“the closed period”)—

The closed period

Soil type	Grassland	Tillage land
<i>Sandy or shallow soil</i>	<i>1st September to 31st December</i>	<i>1st August to 31st December</i>
All other soils	15th October to 15th January	1st October to 15th January

Exemptions: crops sown before 15th September

26. Spreading organic manure with high readily available nitrogen on tillage land with sandy or shallow soil is permitted between 1st August and 15th September inclusive provided that the crop is sown on or before 15th September.

Exemptions for organic holdings

27. ^{M13}An occupier of a holding registered as an organic producer with a body registered with the Advisory Committee on Organic Standards may spread organic manure with high readily available nitrogen at any time on—

- [^{F12}(a) crops specified in the table in Schedule 3 (permitted crops for the closed period), or]
- (b) other crops in accordance with written advice from a person who is a member of the Fertiliser Advisers Certification and Training Scheme ^{M14},

provided that each hectare on which organic manure is spread does not receive more than 150kg total nitrogen between the start of the closed period and the end of February.

Textual Amendments

F12 Reg. 27(a) substituted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **8(2)**

Marginal Citations

- M13** The Advisory Committee on Organic Standards is a non-executive, non departmental public body that approves organic inspection bodies.
- M14** The scheme is administered by Basis Registration Ltd, and a list of qualified persons is available from them on request at <http://www.basis-reg.com/contact.aspx>.

Restrictions following the closed period

28. From the end of the closed period until the end of February—
- (a) the maximum amount of slurry that may be spread at any one time is 50 cubic metres per hectare and the maximum amount of poultry manure that may be spread at any one time is 8 tonnes per hectare; and
 - (b) there must be at least three weeks between each spreading.

Times in which spreading manufactured nitrogen fertiliser is prohibited

29.—(1) No person may spread manufactured nitrogen fertiliser on land during the following periods (all dates inclusive)—

- (a) in the case of grassland, from 15th September to 15th January, or
- (b) in the case of tillage land, from 1st September to 15th January.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

(2) Spreading fertiliser during these periods is permitted on the crops specified in the Table in Schedule 3, provided that the maximum rate in column 2 is not exceeded.

(3) Spreading during those periods on crops not in Schedule 3 is permitted on the basis of written advice from a person who is a member of the Fertiliser Advisers Certification and Training Scheme.

Defence

30. In any proceedings for any breach of a provision in this Part relating to organic manure, it is a defence for the defendant to prove that—

- (a) the breach took place before 1st January 2012, and
- (b) the holding did not have the storage facilities for organic manure required by Part 7 at the time of the breach.

PART 7

Storage of organic manure

Storage of organic manure

31. An occupier of a holding who stores any organic manure (other than slurry), or any bedding contaminated with any organic manure, must store it—

- (a) in a vessel;
- (b) in a covered building;
- (c) on an impermeable surface; or
- (d) in the case of solid manure that can be stacked in a free standing heap and that does not drain liquid from the material, on a temporary field site.

Temporary field sites

32.—(1) A temporary field site must not be—

- (a) in a field liable to flooding or becoming waterlogged;
- (b) within 50 metres of a spring, well or borehole or within 10m of surface water or a land drain (other than a sealed impermeable pipe);
- (c) located in any single position for more than 12 consecutive months;
- (d) located in the same place as an earlier one constructed within the last two years.

(2) Solid poultry manure that does not have bedding mixed into it and is stored on a temporary field site must be covered with an impermeable material.

Separation of slurry

33. Separation of slurry into its solid and liquid fractions must either be carried out mechanically or on an impermeable surface where the liquid fraction drains into a suitable receptacle.

Storage capacity

34.—(1) An occupier of a holding who keeps any of the animals specified in Schedule 1 must provide sufficient storage for all slurry produced on the holding during the storage period, and all poultry manure produced in a yard or building on the holding during the storage period.

(2) The volume of the manure produced by the animals on the holding must be calculated in accordance with Schedule 1.

(3) A slurry store must have the capacity to store, in addition to the manure, any rainfall, washings or other liquid that enters the vessel (either directly or indirectly) during the storage period.

(4) Storage facilities are not necessary for slurry or poultry manure—

(a) sent off the holding; or

(b) spread on land that has a low run-off risk (provided that this is done in accordance with the restrictions on spreading in these Regulations); but in this case storage facilities for an additional one week's manure must be provided as a contingency measure in the event of spreading not being possible on some dates.

(5) For the purposes of this regulation the “storage period” (all dates inclusive) is—

(a) the period between 1st October and 1st April for pigs and poultry;

(b) the period between 1st October and 1st March in any other case.

PART 8

Calculations and records

Recording the size of the holding

35.—(1) By 30th April 2009 the occupier of a holding must record the total size of the holding calculated in accordance with regulation 12(3).

(2) If the size of the holding changes this record must be updated within one month.

Records relating to storage of manure during the storage period

36.—(1) By 30th April 2009 an occupier of a holding with livestock must calculate and record—

(a) the amount of manure that will be produced by the anticipated number of animals that will be kept in a building or on hardstanding during the storage period referred to regulation 34, using the figures in Schedule 1;

(b) the amount of storage capacity (slurry vessels and hardstanding) required to enable compliance with regulation 34 (storage capacity), taking into account—

(i) the amount of manure intended to be exported from the holding;

(ii) the amount of manure intended to be spread on land that has a low run-off risk ; and

(iii) in the case of a slurry vessel the amount of liquids other than slurry likely to enter the vessel;

(c) the current storage capacity on the holding.

(2) An occupier who introduces animals on to a holding for the first time must comply with paragraph (1) within one month of the introduction of the animals.

(3) If the amount of storage capacity changes the occupier must record the change within one week.

Annual records relating to storage

37.—(1) Before 30th April each year an occupier of a holding with livestock must record, for the previous storage period referred to in regulation 34 the number and category of animals in a building or hardstanding during the storage period.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

- (2) The occupier must also record the sites used for field heaps and the dates of use.

Record of nitrogen produced by animals on the holding

38.—(1) Before 30th April every year an occupier of a holding with livestock must make a record of—

- (a) the number and category (in accordance with the categories in Schedule 1) of animals on the holding during the previous calendar year, and
- (b) the number of days that each animal spent on the holding.

(2) The occupier must then calculate the amount of nitrogen in the manure produced by the animals on the holding during that year using the Table in Schedule 1.

(3) Alternatively, in the case of permanently housed pigs or poultry, the occupier may use—

- (a) software approved by the Secretary of State; or
- (b) in the case of a system of keeping livestock that only produces solid manure, sampling and analysis in accordance with Part 2 of Schedule 2.

(4) The occupier must make a record of the calculations and how the final figures were arrived at.

(5) An occupier who used software approved by the Secretary of State must keep a printout of the result.

Livestock manure brought on to or sent off the holding

39.—(1) An occupier who brings livestock manure on to a holding must, within one week record—

- (a) the type and amount of livestock manure;
- (b) the date it is brought on to the holding;
- (c) the nitrogen content, if known; and
- (d) the name and address of the supplier.

(2) An occupier who sends livestock manure off a holding must within one week record—

- (a) the type and amount of livestock manure;
- (b) the date it is sent off the holding;
- (c) the nitrogen content;
- (d) the name and address of the recipient; and
- (e) details of a contingency plan to be used in the event that an agreement for a person to accept the livestock manure fails.

(3) If the nitrogen content of the livestock manure brought on to a holding is not known, the occupier must ascertain it, as soon as is reasonably practicable after arrival, and record it within one week.

(4) All nitrogen content must be ascertained using either the standard figures in Part 1 of Schedule 2 or by sampling and analysis as set out in Part 2 of that Schedule.

Sampling and analysis

40.—(1) Any person using sampling and analysis to determine nitrogen content in organic manure must keep the original report from the laboratory.

Records of crops sown

41. An occupier who intends to spread nitrogen fertiliser must record within one week of sowing a crop—

- (a) the crop sown; and
- (b) the date of sowing.

Records of spreading nitrogen fertiliser

42.—(1) Within one week of spreading organic manure the occupier must record—

- (a) the area spread;
- (b) the quantity of organic manure spread;
- (c) the date;
- (d) the method;
- (e) the type of organic manure;
- (f) the total nitrogen content;
- (g) the amount of nitrogen that was available to the crop.

(2) Within one week of spreading manufactured [^{F13}nitrogen] fertiliser the occupier must record—

- (a) the date of spreading; and
- (b) the amount of nitrogen spread.

Textual Amendments

F13 Word in [reg. 42\(2\)](#) inserted (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), **9**

Subsequent records

43.—(1) An occupier who has used nitrogen fertiliser must record the yield achieved by an arable crop within one week of ascertaining it.

(2) Before 30th April each year an occupier must record how any grassland was managed in the previous calendar year.

Fertiliser Advisers Certification and Training Scheme advice

44. An occupier must keep a copy of any advice from a person who is a member of the Fertiliser Advisers Certification and Training Scheme relied on for any purpose under these Regulations.

Duration of records

45. Any person required to make a record under these Regulations must keep it for five years.

PART 9

Review

Monitoring and review

46.—(1) At least every four years the Secretary of State must review the effectiveness of the restrictions in nitrate vulnerable zones imposed by these Regulations as a means of reducing or preventing water pollution caused by nitrates from agricultural sources and if necessary revise them.

(2) In order to do this the Secretary of State must establish a monitoring programme to assess the effectiveness of the restrictions in these Regulations.

(3) When carrying out this review the Secretary of State must take into account—

- (a) available scientific and technical data, particularly with reference to respective nitrogen contributions originating from agricultural and other sources; and
- (b) regional environmental conditions.

Public participation

47.—(1) When carrying out this review the Secretary of State must ensure that the public is given early and effective opportunities to participate.

(2) The Secretary of State must make adequate arrangements for public participation to enable the public to prepare and participate effectively.

(3) The Secretary of State must ensure that—

- (a) the public is consulted about any proposals and that relevant information about such proposals is made available to the public, including information about the right to participate in decision-making and about the body to which comments or questions may be submitted; and
- (b) the public is entitled to express comments and opinions when all options are open before decisions on the plans and programmes are made.

(4) The Secretary of State must identify the public entitled to be consulted, including non-governmental organisations promoting environmental protection.

(5) Reasonable time must be allowed for consultation.

(6) Consultation must be taken into account in reaching a decision.

(7) Following consultation the Secretary of State must inform the public about the decisions taken and the reasons and considerations upon which those decisions are based, including information about the public participation process.

PART 10

Enforcement

Offences and penalties

48.—(1) Any person who breaches any provision of these Regulations is guilty of an offence and liable —

- (a) on summary conviction, to a fine not exceeding the statutory maximum, or
- (b) on conviction on indictment, to a fine.

(2) Where a body corporate is guilty of an offence under these Regulations, and that offence is proved to have been committed with the consent or connivance of, or to have been attributable to any neglect on the part of—

- (a) any director, manager, secretary or other similar person of the body corporate, or
- (b) any person who was purporting to act in any such capacity,

that person, as well as the body corporate, is guilty of the offence and liable to be proceeded against and punished accordingly.

(3) For the purposes of this regulation, “director”, in relation to a body corporate whose affairs are managed by its members, means a member of the body corporate.

Enforcement

49. These Regulations are enforced by the Environment Agency.

Revocations

50. The following are revoked in so far as they apply in England—

- (a) the Nitrate Sensitive Areas Regulations 1994 ^{M15};
- (b) the Nitrate Sensitive Areas (Amendment) Regulations 1995 ^{M16};
- (c) the Nitrate Sensitive Areas (Amendment) (No. 2) Regulations 1995 ^{M17};
- (d) the Protection of Water Against Agricultural Nitrate Pollution (England and Wales) Regulations 1996 ^{M18};
- (e) the Nitrate Sensitive Areas (Amendment) Regulations 1996 ^{M19};
- (f) the Nitrate Sensitive Areas (Amendment) Regulations 1997 ^{M20};
- (g) the Nitrate Sensitive Areas (Amendment) Regulations 1998 ^{M21};
- (h) the Action Programme for Nitrate Vulnerable Zones (England and Wales) Regulations 1998 ^{M22};
- (i) the Nitrate Sensitive Areas (Amendment) (No. 2) Regulations 1998 ^{M23};
- (j) the Nitrate Sensitive Areas (Amendment) Regulations 2002 ^{M24};
- (k) the Nitrate Vulnerable Zones (Additional Designations) (England) (No 2) Regulations 2002 ^{M25};
- (l) the Farm Waste Grant (Nitrate Vulnerable Zones) (England) Scheme 2003 ^{M26}; and
- (m) the Protection of Water Against Agricultural Nitrate Pollution (England and Wales) (Amendment) Regulations 2006 ^{M27}.

Marginal Citations

- M15** S. I. 1994/1729.
- M16** S. I. 1995/1708.
- M17** S. I. 1995/2095.
- M18** S. I. 1996/888.
- M19** S. I. 1996/3105.
- M20** S. I. 1997/990.
- M21** S. I. 1998/79.
- M22** S. I. 1998/1202.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

M23 S. I. 1998/2138.

M24 S. I. 2002/744.

M25 S. I. 2002/2614.

M26 S. I. 2003/562.

M27 S. I. 2006/1289.

Department for Environment, Food and Rural
Affairs

Phil Woolas
Minister of State

SCHEDULE 1

Regulations 6 and 38

[^{F14}Amount of manure, nitrogen and phosphate produced
by grazing livestock and non-grazing livestock

Textual Amendments

F14 Schs. 1-4 substituted for Schs. 1-3 (28.12.2009) by [The Nitrate Pollution Prevention \(Amendment\) Regulations 2009 \(S.I. 2009/3160\)](#), regs. 1(b), 10, [Sch.](#)

Table 1**Grazing livestock**

<i>Category</i>	<i>Daily manure produced by each animal (litres)</i>	<i>Daily nitrogen produced by each animal (grams)</i>	<i>Daily phosphate produced by each animal (grams)</i>
Cattle			
Calf (all categories except veal) up to 3 months:	7	23	12.7
Dairy cow—			
From 3 months and less than 13 months:	20	95	34
From 13 months up to first calf:	40	167	69
After first calf and—			
annual milk yield more than 9000 litres:	64	315	142
annual milk yield between 6000 and 9000 litres:	53	276	121
annual milk yield less than 6000 litres:	42	211	93
Beef cows or steers—			
From 3 months and less than 13 months:	20	91	33
From 13 months and less than 25 months:	26	137	43
From 25 months—			
females or steers for slaughter:	32	137	60
females for breeding—			
weighing 500kg or less:	32	167	65

(a) Castrated male.

(b) In the case of a ewe, this figure includes one or more suckled lambs until the lambs are aged six months.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

<i>Category</i>	<i>Daily manure produced by each animal (litres)</i>	<i>Daily nitrogen produced by each animal (grams)</i>	<i>Daily phosphate produced by each animal (grams)</i>
weighing more than 500kg:	45	227	86
Bulls			
Non-breeding, 3 months and over:	26	148	24
Breeding—			
from 3 months and less than 25 months:	26	137	43
from 25 months:	26	132	60
Sheep			
From 6 months up to 9 months old:	1.8	5.5	0.76
From 9 months old to first lambing, first tugging or slaughter:	1.8	3.9	2.1
After lambing or tugging—			
weight less than 60kg:	3.3	21	8.8
weight from 60kg:	5	33	10.0
Goat, deer and horses			
Goat:	3.5	41	18.8
Deer—			
breeding:	5	42	17.6
other:	3.5	33	11.7
Horse:	24	58	56

(a) Castrated male.

(b) In the case of a ewe, this figure includes one or more suckled lambs until the lambs are aged six months.

Table 2

Non-grazing livestock

<i>Category</i>	<i>Daily manure produced by each animal (litres)</i>	<i>Daily nitrogen produced by each animal (grams)</i>	<i>Daily phosphate produced by each animal (grams)</i>
Cattle			
Veal calf:	7	23	12.7
Poultry			

(a) Note: all figures for poultry include litter.

<i>Category</i>	<i>Daily manure produced by each animal (litres)</i>	<i>Daily nitrogen produced by each animal (grams)</i>	<i>Daily phosphate produced by each animal (grams)</i>
Chicken used for production of eggs for human consumption—			
less than 17 weeks:	0.04	0.64	0.47
from 17 weeks (caged):	0.12	1.13	1.0
from 17 weeks (not caged):	0.12	1.5	1.1
Chickens raised for meat:	0.06	1.06	0.72
Chickens raised for breeding—			
less than 25 weeks:	0.04	0.86	0.78
from 25 weeks:	0.12	2.02	1.5
Turkey—			
male:	0.16	3.74	3.1
female:	0.12	2.83	2.3
Duck:	0.10	2.48	2.4
Ostrich:	1.6	3.83	18.5
Pigs			
Weight from 7kg and less than 13kg:	1.3	4.1	1.3
Weight from 13kg and less than 31kg:	2	14.2	6.0
Weight from 31kg and less than 66kg—			
dry fed:	3.7	24	12.1
liquid fed:	7.1	24	12.1
Weight from 66kg and—			
intended for slaughter—			
dry fed:	5.1	33	17.9
liquid fed:	10	33	17.9
sow intended for breeding that has not yet had its first litter:	5.6	38	20
sow (including litter up to 7kg) fed on a diet supplemented with synthetic amino acids:	10.9	44	37
sow (including litter up to 7kg) fed on a diet without synthetic amino acids:	10.9	49	37

(a) Note: all figures for poultry include litter.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

<i>Category</i>	<i>Daily manure produced by each animal (litres)</i>	<i>Daily nitrogen produced by each animal (grams)</i>	<i>Daily phosphate produced by each animal (grams)</i>
breeding boar from 66kg up to 150kg:	5.1	33	17.9
breeding boar, from 150kg:	8.7	48	28

(a) Note: all figures for poultry include litter.

SCHEDULE2

Regulation 17

Calculating nitrogen in manure

PART 1

Standard table

Total amount of nitrogen in manure

<i>Manure other than slurry</i>	<i>Total nitrogen in each tonne (kg)</i>
Manure other than slurry from—	
cattle:	6
pigs:	7
sheep:	7
ducks:	6.5
horses:	7
goats:	6
Manure from laying hens:	19
Manure from turkeys or broiler chickens:	30
<i>Slurry</i>	<i>Total nitrogen in each cubic metre (kg)</i>
Cattle:	2.6
Pigs:	3.6
Separated cattle slurry (liquid fraction)—	
strainer box:	1.5
weeping wall:	2
mechanical separator:	3
Separated cattle slurry (solid fraction):	4
Separated pig slurry (liquid fraction):	3.6

<i>Slurry</i>	<i>Total nitrogen in each cubic metre (kg)</i>
Separated pig slurry (solid fraction):	5
Dirty water:	0.5

PART 2

Sampling and analysis

Slurry

- 1.—(1) In relation to slurry, at least five samples, each of 2 litres, must be taken.
- (2) The sample must be taken from a slurry vessel, and—
 - (a) if reasonably practicable, the slurry must be thoroughly mixed before the samples are taken, and
 - (b) each sample must be taken from a different location.
- (3) But if a tanker used for spreading is fitted with a suitable valve, the samples may be taken while spreading, and each sample must be taken at intervals during the spreading.
- (4) The samples must be poured into a larger container, stirred thoroughly and a 2 litre sample must be taken from that container and poured into a smaller clean container.
- (5) That sample must then be sent for analysis.

Solid manures

- 2.—(1) In relation to solid manures, the samples must be taken from a manure heap.
- (2) At least ten samples of 1kg each must be taken, each from a different location in a heap.
- (3) Each sub-sample must be taken at least 0.5 metres from the surface of the heap.
- (4) If samples are being collected to calculate compliance with the whole farm limit for pigs and poultry, four samples for analysis must be taken in a calendar year (one taken in each quarter) from manure heaps not more than 12 months old.
- (5) The sub-samples must be placed on a clean, dry tray or sheet.
- (6) Any lumps must be broken up and the sub-samples must be thoroughly mixed together.
- (7) A representative sample of at least 2kg must then be sent for analysis.

SCHEDULE 3

Regulations 27 and 29

Permitted crops for the closed period

<i>Crop</i>	<i>Maximum nitrogen rate (kg/hectare)</i>
Oilseed rape, winter	30
Asparagus	50

- (a) Nitrogen must not be spread on these crops after 31st October.
- (b) An additional 50kg of nitrogen per hectare may be spread every four weeks during the closed period up to the date of harvest.
- (c) A maximum of 40kg of nitrogen per hectare may be spread at any one time.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

<i>Crop</i>	<i>Maximum nitrogen rate (kg/hectare)</i>
Brassica	100
Grass	80
Over-wintered salad onions	40
Parsley	40
Bulb onions	40

- (a) Nitrogen must not be spread on these crops after 31st October.
- (b) An additional 50kg of nitrogen per hectare may be spread every four weeks during the closed period up to the date of harvest.
- (c) A maximum of 40kg of nitrogen per hectare may be spread at any one time.

SCHEDULE 4

Regulation 13F

Derogated holdings

1. The following additional requirements apply to derogated holdings but not to holdings with the benefit of a deemed derogation.

Derogation from the measures governing the limit on application of livestock manure

2. An occupier of a derogated holding must ensure that in any calendar year for which the derogation has been granted—

$$A \geq (N_{gl} \div 250) + (N_{ngl} \div 170)$$

where—

A is the area of the derogated holding (hectares), as existing on 1st January for that calendar year,

N_{gl}

is the total amount of nitrogen (kilogrammes) in livestock manure from grazing livestock, whether applied directly by an animal or by spreading, and

N_{ngl}

is the total amount of nitrogen (kilogrammes) in livestock manure from non-grazing livestock, whether applied directly by an animal or by spreading.

Planning the spreading of phosphate fertiliser

3.—(1) In addition to the production of nitrogen spreading plans under regulation 14 (planning the spreading of nitrogen fertiliser) the occupier must—

- (a) assess the amount of phosphorus in the soil that is likely to be available for uptake by the crop during the growing season (“the soil phosphorus supply”);
- (b) calculate the optimum amount of phosphate fertiliser that should be spread on the crop, taking into account the amount of phosphorus available from the soil phosphorus supply; and
- (c) produce a plan for the spreading of phosphate fertiliser for that growing season.
- (2) The occupier must do this—

- (a) in the case of any crop other than permanent grassland, before spreading any phosphate fertiliser for the first time for the purpose of fertilising a crop planted or intended to be planted; and
 - (b) in the case of permanent grassland, each year beginning on 1st January before the spreading of phosphate fertiliser.
4. In addition to the requirements under paragraph 3 the fertilisation plan must record—
- (a) the soil phosphorus supply and the method used to establish this figure;
 - (b) the optimum amount of phosphate fertiliser that should be spread on the crop, taking into account the amount of phosphorus from the soil phosphorus supply;
 - (c) the amount of nitrogen likely to be available for uptake by the crop from any organic manure intended to be spread for crop uptake in the growing season during the calendar year in which it is spread;
 - (d) the amount of phosphate likely to be supplied to meet the requirement of the crop from any organic manure spread or intended to be spread during the calendar year;
 - (e) the amount of manufactured nitrogen fertiliser required (that is, the optimum amount of nitrogen required by the crop less the amount of nitrogen that will be available for crop uptake from any organic manure spread during that calendar year); and
 - (f) the amount of manufactured phosphate fertiliser required (that is, the optimum amount of phosphate required by the crop less the amount of phosphate supplied for crop uptake from any organic manure spread for the purpose of fertilising the crop during that calendar year).

Soil sampling and analysis

5.—(1) At least every four years the occupier must undertake soil sampling and analysis for the supply of phosphorus of at least every five hectares of the agricultural area of the derogated holding under the same cropping regime and soil type.

(2) An occupier may rely on the results of previous phosphorus soil sampling and analysis of the agricultural area of the derogated holding under the same cropping regime and soil type for the purposes of paragraph (1), provided such sampling and analysis was carried out within four years before the derogation.

(3) Where phosphorus soil sampling and analysis of the agricultural area of the derogated holding under the same cropping regime and soil type has not been carried out before 2010, such sampling and analysis must be carried out as follows—

- (a) 75% of the agricultural area by 1st March 2011, and
- (b) 100% of the agricultural area by 1st March 2012.

Additional information to be recorded during the year

6.—(1) In addition to the information to be recorded under regulation 15 (additional information to be recorded during the year) the occupier must, before spreading organic manure, record—

- (a) the total phosphate content of the organic manure; and
- (b) the amount of phosphate likely to be supplied from the organic manure intended to be spread for the purpose of fertilising the crop in the growing season in which it is spread.

(2) In addition to the requirements of paragraph (1) the occupier must, before spreading manufactured phosphate fertiliser, record—

- (a) the amount required (that is, the optimum amount of phosphate required by the crop less the amount of phosphate that will be supplied for crop uptake from any organic manure spread); and

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Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

- (b) the planned date for spreading (month).

Risk maps

- 7.—(1) In addition to the requirements under regulation 18 (risk maps), the risk map must—
- (a) show each field marked with a reference number or number to enable cross reference to fields recorded in fertilisation plans;
 - (b) correspond with the agricultural area of the derogated holding; and
 - (c) be completed by 1st March for that calendar year.
- (2) The occupier must update the risk map within one month of any change in circumstances.

Maintaining the derogated holding as a grassland holding

8. The occupier must maintain the holding to ensure 80% or more of the agricultural area is sown with grass during that calendar year.

Closed period for ploughing grass on the derogated holding

9. In relation to any grass ploughed on or after 1st January 2010, no person may—
- (a) plough temporary grassland on sandy soils between 1st July and 31st December;
 - (b) plough grass on sandy soils before 16th January where livestock manure has been spread on that grass between 1st September and 31st December in the previous calendar year; and
 - (c) plough grass on soils that are not sandy soils before 16th January where livestock manure has been spread on that grass between 15th October in the previous calendar year and 15th January.

Sowing of crops following grass on the derogated holding

10. In relation to the sowing of crops or grass on any grass ploughed on or after 1st January 2010, the land must be—

- (a) sown with a crop with high nitrogen demand within four weeks beginning on the day after the date of ploughing grass; or
- (b) sown with grass within six weeks beginning on the day after the date of ploughing grass.

Crop rotation on the derogated holding

11. Crop rotation must not include leguminous or other plants fixing atmospheric nitrogen except for grass with less than 50% clover and other leguminous plants that are under-sown with grass.

Recording the size of the derogated holding

12.—(1) An occupier must record the total agricultural area and the area of grass within the derogated holding by 1st March for that calendar year.

(2) If the size of the derogated holding or area of grass changes the occupier must update the record within one month beginning on the day after the change

Records relating to storage of manure during the storage period

13. In addition to the requirements of regulation 36 (records relating to storage of manure during the storage period) the occupier must make a record describing the livestock housing and manure

storage systems together with the volume of manure storage in place on the holding by 1st March for that calendar year.

Record of nitrogen and phosphate produced by animals

14.—(1) The occupier must make a record of the expected number and category (in accordance with the categories in Tables 1 and 2 in Schedule 1) of livestock to be kept on the holding during that calendar year.

(2) Following the record making requirements in paragraph (1), the occupier must then calculate and record the amount of nitrogen and phosphate in manure expected to be produced by the livestock on the holding during that year using Tables 1 and 2 in Schedule 1.

(3) The records to be made in accordance with paragraphs (1) and (2) must be made before 1st March for that calendar year.

Livestock manure intended to be brought on to or sent off the derogated holding

15.—(1) The occupier must—

- (a) make a record of the type and amount of livestock manure that is intended to be brought on to the holding and sent off the holding during that calendar year; and
- (b) calculate and record the amount of nitrogen in the livestock manure recorded under paragraph (a) in accordance with regulation 39(4).

(2) The records to be made under paragraph (1) must be made by 1st March for that calendar year.

Records of crops sown

16. In addition to the requirements of regulation 41(records of crops sown) an occupier who intends to spread phosphate fertiliser must, within one week of sowing a crop record—

- (a) the crop sown; and
- (b) the date of sowing.

Records of spreading phosphate fertiliser

17. In addition to the requirements of regulation 42 (records of spreading nitrogen fertiliser), an occupier must record—

- (a) within one week of spreading organic manure—
 - (i) the total phosphorus content; and
 - (ii) the amount of phosphate that was supplied for uptake by the crop; and
- (b) within one week of spreading manufactured phosphate fertiliser—
 - (i) the date of spreading; and
 - (ii) the amount of phosphate spread.

Recording the date of ploughing

18. In addition to the requirements of regulation 43 (subsequent records) an occupier must record within one week of ploughing, the date of that ploughing.

Status: Point in time view as at 28/12/2009.

Changes to legislation: There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked). (See end of Document for details)

Fertilisation accounts

19.—(1) An occupier, or any person on behalf of the occupier, must submit fertilisation accounts for the calendar year to the Agency by 30th April of the following year.

(2) The Agency must publish the manner and form in which the fertilisation account must be made.

(3) The fertilisation account must record—

- (a) the total agricultural area of the derogated holding;
- (b) the area of the derogated holding covered by—
 - (i) winter wheat,
 - (ii) spring wheat,
 - (iii) winter barley,
 - (iv) spring barley,
 - (v) winter oilseed rape,
 - (vi) sugar beet,
 - (vii) potatoes,
 - (viii) forage maize,
 - (ix) grass, and
 - (x) other crops;
- (c) the number and category of animals kept on the derogated holding during the previous calendar year in accordance with the categories described in Tables 1 and 2 in Schedule 1;
- (d) the amount of nitrogen and phosphate in the manure produced by the animals on the derogated holding during the previous calendar year using Tables 1 and 2 in Schedule 1;
- (e) the amount and type of livestock manure brought on to or sent off the derogated holding during the previous calendar year;
- (f) the amount of nitrogen and phosphate in the manure recorded under paragraph (e) calculated in accordance with paragraph 14(2);
- (g) the weight (tonnes) and nitrogen content of all manufactured nitrogen fertiliser stocks kept on the derogated holding between 1st January and 31st December in the previous calendar year; and
- (h) the weight (tonnes) and nitrogen content of all manufactured nitrogen fertiliser brought on to and sent off the derogated holding between 1st January and 31st December in the previous calendar year.]

EXPLANATORY NOTE

(This note is not part of the Regulations)

These Regulations revoke and replace, in so far as they apply in England, the provisions set out in regulation 50, which controlled the application of nitrogen fertiliser in nitrate sensitive areas. They continue to implement in England Council Directive [91/676/EEC](#) concerning the protection of waters against pollution by nitrates from agricultural sources (OJ No. L.375, 31.12.91, p.1).

Principal changes

The principal changes are as follows.

The Regulations extend the areas designated as nitrate vulnerable zones.

The permitted annual level of nitrate application of livestock manure to grassland in a nitrate vulnerable zone is reduced from 250 kg/ha to 170 kg/ha (previously the lower limit applied to land other than grassland).

They change the period during which organic manure in a nitrate vulnerable zone may not be spread and increase the amount of organic manure storage capacity required.

The Regulations

The Regulations designate nitrate vulnerable zones and establish an appeals procedure against the designation (Part 2).

They impose annual limits on the amount of nitrogen from organic manure that may be applied or spread in a holding in a nitrate vulnerable zone (Part 3).

Part 4 establishes requirements relating to the amount of nitrogen to be spread on a crop, and requires an occupier to plan in advance how much nitrogen fertiliser will be spread.

Part 5 requires an occupier to provide a risk map of the holding (regulation 18) and imposes conditions on how, where and when to spread nitrogen fertiliser. Part 6 establishes closed periods during which it is prohibited to spread nitrogen fertiliser.

Part 7 makes provision for how nitrogen fertiliser must be stored, and requires storage capacity for manure produced on the holding during the period specified in that Part.

Part 8 specifies which records must be kept. Part 9 requires the Secretary of State to review the Regulations within set time scales.

The Regulations are enforced by the Environment Agency.

Breach of the Regulations is an offence punishable—

- (a) on summary conviction, with a fine not exceeding the statutory maximum, or
- (b) on conviction on indictment, with a fine.

A full impact assessment has been prepared for these Regulations and placed in the libraries of both Houses of Parliament and copies can be obtained at www.defra.gov.uk.

Status:

Point in time view as at 28/12/2009.

Changes to legislation:

There are currently no known outstanding effects for the The Nitrate Pollution Prevention Regulations 2008 (revoked).