NVZ Workshop
Alastair Beattie & Sam Henderson
11th September 2017

Topics to cover:

- NVZ regulations in Lower Nithsdale - Requirements
- What records you need to keep to be compliant
- How to create a RAMS map
- Common errors found on inspections
- Nutrient budgeting, maximising efficiency and reducing fertiliser costs
- Update on cross compliance and greening rules.
NVZ Workshop

Revised NVZ Map - Lower Nithsdale

(Effective from February 2015)

NVZ Plan

• To be completed annually

• To be in place by 1st March each year

• Kept for at least 3 years
NVZ requirements

You must prepare annually a Fertiliser and Manure Management Plan:
1. RAMS map
2. Calculation and record of storage capacity of livestock manures (if applicable)
3. Calculation and record of 170kg N/ha loading limit for livestock manure (based on livestock numbers & area farmed)
4. An N-max calculation for each crop type (based on field records)

1 RAMS Map

(Section 4)

- Field boundaries
- Field size
- Surface water (blue)
- Non-spreading areas
- High risk
- Moderate risk
- Low risk
- Location of field heaps

13/09/2017
Risk Assessment for Manures & Slurry

No spreading at any time

- Areas within 50m of a well or borehole
- Areas within 10m of a watercourse

Risk Assessment for Manures & Slurry

- Land with a slope of more than 12 degrees
- Risk of flooding more than once in 5 years
- Fields with new drains installed in previous 12 months
- No field heaps allowed
- Access limited
- Spreading in ideal conditions only

• Land with a slope of more than 12 degrees

- Access limited
- No field heaps allowed
- Spreading in ideal conditions only

Risk Assessment for Manures & Slurry

HIGH RISK
Risk Assessment for Manures & Slurry

**MODERATE RISK**

- Imperfectly drained land
- Slopes between 4 and 12 degrees in vicinity of watercourses
- Land sloping towards watercourses

**LOW RISK**

- Year round applications possible
- Good access
- No artificial drainage
- BEWARE! Flooding, frost and snow
Other Features on RAMS map

- Identify **surface waters** e.g. ditches, burns, rivers, lochs, ponds and any wet areas especially areas that are prone to flooding.
- Identify **unavailable areas** where spreading cannot be carried out e.g. woodlands, steading areas, roads, yards. Deduct from spreadable area.
- Mark the location of **field middens** – NOT located on no spread or high risk areas.

2. Record capacity of storage facilities for livestock manure
Slurry Storage

<table>
<thead>
<tr>
<th>Slurry</th>
<th>Storage Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pig</td>
<td>26 Weeks</td>
</tr>
<tr>
<td>All other livestock</td>
<td>22 Weeks</td>
</tr>
</tbody>
</table>

- Maintained free from structural defect
- Sufficient standard to prevent run off or seepage entering groundwater
- Storage capacity requirement calculated using **standard production figures** per head, rather than actuals.

Storage of solid manures
Temporary field heaps

- Not more than 12 months in the same place
- Site cannot be reused within 24 months
- 10m from surface water and 50m from a borehole
- Not sited on land sloping toward surface water
- Location identified on RAMS map
  – Not located on high risk areas
- Poultry manure which is not mixed with litter must be covered

Permanent storage
(Manures – sect 5, pg 12)

- Manure that cannot be stacked without slumping
- Manure that produces free drainage of liquid

Storage:
- Impermeable base and run off collected
- Covered to prevent rainfall ingress or
- Facilities to collect and store run off
  (constructed farm wetlands for FYM run-off)
Poultry manure

• 26 weeks storage if cannot be stored in a temporary field heap or exported off the farm

Storage

• In the livestock house or on a concrete base
• Covered by a roof or provisions for safe storage of run off

3. Calculate Loading Limit for Livestock Manure

• 170kg N/ha/year – loading limit for livestock (organic) manure
• Nitrogen excreted by animals on the farm – spread on land or deposited during grazing
• Nitrogen content of any imported livestock manure
• Standard production figures (sect 4, pg 10)
• Assessed across utilisable agricultural area of the land within the NVZ.
170 kg/ha/yr – loading limit for livestock manure

Total N excreted by livestock on the farm plus the N content of imported manure

\[
\frac{\text{Total N excreted by livestock on the farm plus the N content of imported manure}}{\text{the total agricultural area of the farm within the NVZ}}
\]

250 kg N/ha – field application limit for organic nitrogen

• All organic manures
• Applied in any 12 month period
• Excludes grazing deposition and manufactured nitrogen fertiliser
• Assessed across the spreadable area of the field

(see sect 2, pg 6)
250 kg/ha – field limit for organic nitrogen

Total nitrogen content of all organic manures to be applied to the field

\[
\text{Total nitrogen content} \div \text{Available spreading area}
\]

The available spreading area of the field

4. Calculate nitrogen requirement for each crop including grassland (section 6)
N-max (section 6)

- Total nitrogen applied as manufactured fertilisers plus the **crop available nitrogen** from organic manure applications
- Assessed across a crop type - not on a field level basis
- Gives flexibility at a field level

Calculating Nmax for crops

**Stage 1**
- Gather field information: Previous Crop, Planned crop, Soil type

**Stage 2**
- Use simple look-up tables to work out standard nitrogen requirement (look-up tables in section 9, pages 6-11)
- Adjust for higher than standard yields – rainfall & expected yield - CAUTION!
Calculating Nmax for crops

Stage 3
- Account for livestock and other organic manures
- Deduct the crop available nitrogen from the crop requirement to give the balance that can be applied as bagged fertiliser (Sect 9, Pg 12-15)

<table>
<thead>
<tr>
<th>Manure type</th>
<th>Typical N (kg/t)</th>
<th>NVZ Minimum% Available to crop</th>
<th>Available N (kg/t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle Slurry</td>
<td>2.6</td>
<td>40</td>
<td>1.04</td>
</tr>
<tr>
<td>Pig Slurry</td>
<td>3.6</td>
<td>50</td>
<td>1.8</td>
</tr>
<tr>
<td>Layer Manure</td>
<td>19</td>
<td>30</td>
<td>5.7</td>
</tr>
<tr>
<td>Cattle FYM</td>
<td>6</td>
<td>10</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Stage 4
- Adjust for rainfall. An upward adjustment can be made if the actual localised rainfall 1\(^{st}\) Oct – 1\(^{st}\) March exceeds 450mm (Not on residue group 1)
- See N residue tables 1 – 6 (Section 9, Pg 6-11)

Stage 5
- Calculate the Nmax for the crop type by adding up the nitrogen requirement for each field growing that crop type
Example NMax for Spring Barley

<table>
<thead>
<tr>
<th>Crop type</th>
<th>SB</th>
<th>Standard yield 5.5 t/ha</th>
<th>Average yield for this farm 6.5 t/ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field 1</td>
<td>10</td>
<td>SB OMS 130 15 145 1450 150 1300</td>
<td></td>
</tr>
<tr>
<td>Field 2</td>
<td>12</td>
<td>SB SAND 150 15 15 180 2160 2160</td>
<td></td>
</tr>
<tr>
<td>Field 3</td>
<td>5</td>
<td>PEAS OMS 120 15 135 675 675</td>
<td></td>
</tr>
<tr>
<td>Field 4</td>
<td>20</td>
<td>PGRS OMS 90 15 105 2100 2100</td>
<td></td>
</tr>
<tr>
<td>Total Area 47 ha</td>
<td></td>
<td>SB Nmax 6235 kgN 133 kgN/ha</td>
<td></td>
</tr>
</tbody>
</table>

Calculating Nmax for grassland

**Stage 1**
- Determine site class – see section 9, Pg 4

**Stage 2**
- Use look-up tables to determine nitrogen requirement for intended management – i.e grazing/ cutting

**Stage 3**
- Deduct crop available nitrogen from manure applications
  
  \[ \text{Nmax for whole grassland area} = \text{Nmax for whole grassland area} \]
Nmax for Grassland

<table>
<thead>
<tr>
<th>Grass Management</th>
<th>Site Class 2 kgN/ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 or 3 cut silage + grazing</td>
<td>300</td>
</tr>
<tr>
<td>Grazing with low clover</td>
<td>270</td>
</tr>
<tr>
<td>1 cut silage + grazing</td>
<td>260</td>
</tr>
<tr>
<td>Hay + grazing</td>
<td>210</td>
</tr>
<tr>
<td>Grazing with high clover</td>
<td>90</td>
</tr>
</tbody>
</table>

(See section 9, Pg 4)

NVZ requirements

You must prepare annually a Fertiliser and Manure Management Plan:
1. RAMS map
2. Calculation and record of storage capacity of livestock manures (if applicable)
3. Calculation and record of 170kg N/ha loading limit for livestock manure (livestock numbers)
4. An Nmax calculation for each crop type (field records)
NVZ Records

- Record the area of a farm within an NVZ.
- Field records
- Livestock numbers
- Movement of livestock manure on and off farm
- Artificial fertiliser inventory

2. Field Records

- Area
- Soil type
- Crop and date of sowing
- Quantity and type of chemical fertilisers and organic manures

- Already doing this?
Example Field Record

Field Number: Field 1  
Field Area: 10ha  
Harvest year: 2016  

Calculated Nmax for crop type: 133kg/ha  
Soil Type: OMS

<table>
<thead>
<tr>
<th>Date fert or manure applied</th>
<th>Field use details</th>
<th>Manufactured nitrogen applied</th>
<th>Organic manure applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date fert or manure applied</td>
<td>Crop type</td>
<td>Date sown</td>
<td>Fertiliser type</td>
</tr>
<tr>
<td>10/01/2016</td>
<td>SB</td>
<td>15/03/2016</td>
<td></td>
</tr>
<tr>
<td>15/03/2016</td>
<td>14:14:21</td>
<td>375</td>
<td>52.5</td>
</tr>
<tr>
<td>15/04/2016</td>
<td>34.50%</td>
<td>175</td>
<td>60</td>
</tr>
</tbody>
</table>

3. Livestock Numbers

- Species
- Type
- Length of time on the farm
### Example stocking records

<table>
<thead>
<tr>
<th>Livestock Type</th>
<th>Number present on first day of calendar month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Dairy Cow, High Milk Yield (&gt; 9000kg)</td>
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<td></td>
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<tr>
<td>1 Dairy Cow, Med Milk Yield (6000 to 9000kg)</td>
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<tr>
<td>1 Dairy Cow, Low Milk Yield (less than 6000kg)</td>
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</tr>
<tr>
<td>1 Dairy Heifer Replacement, 13 mths to first calf</td>
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<tr>
<td>1 Dairy Heifer Replacement, 3 to 13 mths</td>
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</tr>
<tr>
<td>1 Large Beef Suckler, 25 mths and over (over 500kg)</td>
<td></td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
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</tr>
<tr>
<td>1 Small Beef Suckler, 25 mths and over (up to 500kg)</td>
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<tr>
<td>1 Beef Grazier, 25 mths and over</td>
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<tr>
<td>1 Beef Grazier, 13 to 25 mths</td>
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<tr>
<td>1 Beef Grazier, 3 to 13 mths</td>
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<td>25</td>
<td>50</td>
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<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>48</td>
</tr>
<tr>
<td>1 Bull Beef 5 mths and over</td>
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<tr>
<td>1 Bull for breeding 25 mths and over</td>
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</tr>
<tr>
<td>1 Bull for breeding, 3 to 25 mths</td>
<td></td>
<td>2</td>
<td>2</td>
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<td>2</td>
<td>2</td>
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<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>1 Calf up to 5 mths</td>
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<td>25</td>
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<tr>
<td>1 Hill Ewe with suckled lamb(s) up to 6 mths</td>
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<tr>
<td>1 Lowground Ewe with suckled lamb(s) up to 6 mths</td>
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<tr>
<td>1 Lamb from 6 mths up to 9 mths</td>
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<tr>
<td>1 Lamb, 9 mths &amp; over to 1st lambing/tupping or slaughter</td>
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</tr>
<tr>
<td>1 Goat</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>1 Breeding Deer Hind</td>
<td></td>
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</tr>
<tr>
<td>1 Deer Calf Finisher</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>1 Horse</td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

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### 4. Movement of livestock manure on or off the farm

- **Type of manure**
- **Nitrogen content of manure** (standard figures or own analysis)
- **Quantity moved**
- **Date of movement**
- **Name and address of person supplying or receiving the manure**
Example Manure Records

<table>
<thead>
<tr>
<th>Date of Import/Export</th>
<th>Tonnes Supplied (S) / Received (R)</th>
<th>Manure type</th>
<th>Nitrogen content kg/t/m³</th>
<th>Received from / Supplied to</th>
</tr>
</thead>
<tbody>
<tr>
<td>30/03/2013</td>
<td>1000t (S)</td>
<td>Cattle FYM</td>
<td>6</td>
<td>Mr Brown, Green Farm, Haddington</td>
</tr>
<tr>
<td>15/07/2013</td>
<td>500t (R)</td>
<td>Layer manure</td>
<td>19</td>
<td>Mr Smith, Town Farm, Haddington</td>
</tr>
</tbody>
</table>

5. Manufactured fertiliser inventory

- Purchases
- Used
- Retained
Example Fertiliser Inventory

Calendar year 2017

<table>
<thead>
<tr>
<th>Fertiliser type</th>
<th>Opening stock in tonnes</th>
<th>Purchased fertiliser in tonnes (01/01)</th>
<th>Closing stock in tonnes (31/12)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:10:10</td>
<td>3</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>34.5%</td>
<td>0</td>
<td>20</td>
<td>5</td>
</tr>
</tbody>
</table>

Rules relating to the application and storage of N fertiliser

- Must complete Nmax for a crop before applying any N fertiliser
- Total N available to the crop must not exceed the crop requirement (Nmax)
- No applications to take place when land: is waterlogged, is flooded, has been frozen for 12 hours or longer, is snow covered
- No applications to slopes >12 degrees if risk of N entering water
- All N fertiliser must be applied accurately to land
- All applications of N fertiliser must be recorded
Rules relating to the application and storage of N fertiliser

• No application of manufactured N fertiliser during the following periods:

<table>
<thead>
<tr>
<th></th>
<th>Grassland</th>
<th>Other land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nithsdale NVZ</td>
<td>15th September to 15th February</td>
<td>1st September to 15th February</td>
</tr>
</tbody>
</table>

• Applications to WOSR permitted, a max 100kg/ha can be applied to other brassica crops during closed period

Rules relating to the application and storage of N fertiliser and specific manure types

Organic manure:
• 250kg N/ha/field application limit for organic N
• No spreading within 10m of a watercourse
• No spreading within 50m of a well, borehole or other water supply
Rules relating to the application and storage of N fertiliser and specific manure types

Organic manure with a high available N content

- No spreading within the NVZ during the following periods:

<table>
<thead>
<tr>
<th></th>
<th>Grassland</th>
<th>Other land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy or shallow soil</td>
<td>1st September to 31st December</td>
<td>1st August to 31st December</td>
</tr>
<tr>
<td>All other soils</td>
<td>15th October to 31st January</td>
<td>1st October to 31st January</td>
</tr>
</tbody>
</table>

- *applications permitted up to and including 15th September if a cereal crop is sown before that date, also permitted up to 30th September if the land is sown with OSR, catch crop or cover crop before that date.

Rules relating to the application and storage of N fertiliser and specific manure types

- Quantitative restrictions apply during the 4 weeks prior to the commencement of the relevant closed period and from the day following the last day of the closed period until 14th February.

- If applied to bare ground during July, August or September, crop must be sown within 6 weeks of first application.

- At least 3 weeks must elapse before a repeat application of organic manures
Rules relating to the application and storage of N fertiliser and specific manure types

Solid manure:
- Can be stored in temporary field heaps for no longer than 12 months. Site of temporary field heap cannot be reused for 24 months. Not sited in no spread or high risk area on RAMS map
- Any permanent storage site must be on an impermeable surface which prevents drainage to the water environment. Must be enclosed by waterproof covering or have adequate facilities to collect run off. At least 3 weeks must elapse before a repeat application of organic manures

Rules relating to the application and storage of N fertiliser and specific manure types

Slurry:
- 26 weeks min storage for pigs
- 22 weeks min storage for cattle
- Must not be applied by high trajectory splash plate, except where application is to growing arable crop
- Poultry manure – 26 weeks min storage
Common errors found upon inspection

- NVZ plan not available
- Applications of nitrogen within closed periods
- Nmax breach (plan not being followed or understood)
- Incorrect records
- 250kg/ha N organic manure limit exceeded
- Spreading in closed period
- Over application during restriction period

No plan in place

- 3 years of NVZ plans must be available
- RAMS map
- Slurry Storage
- 170kg Loading
- Nmax for each crop type.
Applications of nitrogen within closed periods (Booklet 2)

<table>
<thead>
<tr>
<th>Closed period: No application to land within the NVZ during the following periods:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grassland</td>
</tr>
<tr>
<td>Moray, Aberdeenshire, Banff and Buchan NVZ</td>
</tr>
<tr>
<td>All other NVZs</td>
</tr>
</tbody>
</table>

- application to winter oilseed rape permitted (use autumn value in crop requirement tables).
- a maximum 100 kg/ha can be applied to other brassica crops during the closed period.
- no application in a location or manner that makes it likely that fertiliser will directly enter any surface water.
- no application within 3m of a surface water not an NVZ rule, but included as covered by General Binding Rule 18 of the Water Environment (Diffuse Pollution) (Scotland) Regulations 2008.

<table>
<thead>
<tr>
<th>Closed period: No spreading within the NVZ during the following periods:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy or shallow soil</td>
</tr>
<tr>
<td>1st September to 31st December</td>
</tr>
<tr>
<td>10th October to 31st January</td>
</tr>
</tbody>
</table>

- Organic Manure with a high available N content means more than 30% of the total nitrogen content of the organic manure is present in molecular forms that will be available for plant use in the year in which it is spread on land.
- This includes slurry, poultry manure and some organic wastes such as liquid digested sewage sludge.

Nmax breach

- Not accounting for organic nitrogen in calculations
- Incorrect calculation of Nmax
- Incorrect previous crop
  - grassland, brassicas, N fixing, rape with high residue groups
Nmax breach due to wrong soil texture

Soils for Scotland website (click here for link)

http://map.environment.gov.scot/Soil_maps/?layer=9#

Incorrect records

- Incorrectly recorded fertiliser applications
- Recording 33.5% N and applying 34.5%N
- Incorrect livestock numbers
- Wrong slurry DM used
250kg/ha N organic manure limit exceeded

- 250kg/ha N limit of total N from all organic manures other than compost applied to land in any 12 month period.
Cross Compliance
GAEC 1- Buffer Strips along watercourses

- **You must not**
  - apply pesticides within 2m of the top of a bank
  - apply nitrogen fertilisers to land if there is significant risk of nitrogen entering surface water
  - apply organic manure or locate field heaps* to/on any land which is situated within
    - 10 metres of any surface water
    - 50 metres of any well, borehole, etc for the supply of water
  - Cultivate land within 2m of the top of a bank of surface water
GAEC 5 - Minimum land management reflecting site specific conditions to limit erosion

• You Must
  – prevent the erosion of the banks of watercourses, watering points and feeding areas from overgrazing or heavy poaching by livestock
  – put in place appropriate measures to limit soil erosion if agronomic or weather conditions prevent the subsequent crop or a cover from being sown

GAEC 7- Retention of landscape features
GAEC 7- Retention of landscape features

- **You must not**
  - Remove or destroy drystone or flagstone dykes, turf and stone-faced banks, walls, hedges, ponds, watercourses or trees
  - Trim hedges or lop branches off trees during the bird nesting and rearing season starting on 1 March and ending on 31 August except for road safety reasons
  - Cultivate land within two metres of the centre line of a hedge
  - Apply fertilisers or pesticides within two metres of the centre line of a hedge
  - Alter, damage or destroy a Scheduled Ancient Monument

Greening

- EFA 5% of your arable area
- Arable area including temporary grass & arable crops
- Fallow 1, Field Margin 1.5, Buffer Strip 1.5, Nitrogen fixing crop 0.7, Catch crop 0.3, Green Crop 0.3
- PGRS nutrient plan
- Fallow no production 15th January – 15th July
- Field Margins & Buffer Strips no production 1st January – 31st December
Thank You