**Manure Management Plan**

**Manure Management Plan – 250 kg/ha**

**Step 1: Map**

Prepare a map of the farm using a system such as colour coding to identify areas where manure must not be spread (eg within 10m of watercourses); where spreading is possible but with some restrictions; and areas where spreading can be carried out throughout the year.

**Step 2: Area Available**

From the details identified on the map, estimate the total areas available for spreading.

|  |  |  |  |
| --- | --- | --- | --- |
| **What** | **Where** | **Spreadable Area** | **When – Identify Restrictions** |
| Non-spreading areas | Fields where manure would not normally be spread; non-farmed fields, woodlands or fields simply too far away from the farm buildings. | n/a | DO NOT SPREAD |
| Water | Any ditches, watercourses and ponds. Also, springs, wells or boreholes where water is used for human consumption and farm dairies, including any on neighbouring land close to the farm boundary | n/a | DO NOT SPREAD |
| Don’t Spread Areas | Areas where manure shouldn’t be spread. At least 10m either side of all ditches and watercourses; 50m around springs, wells and boreholes; steep slopes with a high risk of run-off throughout the year; and Environmentally Sensitive Areas, SSSI’s, or other land subject to management agreements. | n/a | DO NOT SPREAD |
| High Risk Areas | Fields next to a watercourse, spring or borehole with soil at field capacity with moderate slope or slowly permeable soil; where soil depth over fissured rock is less than 30cm; with effective pipe or field drains. |  | Avoid during winter and in a dry summer due to compact soil or cracks down to drains |
| Very High Risk Areas | Fields likely to flood sometime in most winters; next to a watercourse, spring or borehole; where surface is severely compacted, waterlogged or have a steep slope and the soil is a field capacity, has a moderate slope and slowly permeable soil. |  | Subject to ground conditions, can be used all year round but minimise application rates in winter |
| Low Risk Areas | All other areas not already marked |  | All year round |
| Total Spreadable Area Available: | |  |  |

**Step 3: Area Required**

Calculate the area required for spreading based on stock numbers and housing period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RUMINANTS | | | | |
| Stock Unit | No of Stock Units  (n) | Months Housed  x | Hectares needed By Stock Unit  x | Total Area Needed (Ha)  = |
| Cow (650 kg) |  |  | 0.039 |  |
| Cow (550 kg) |  |  | 0.032 |  |
| Cow (450 kg) |  |  | 0.025 |  |
| Heifer 2 year + (500 kg) |  |  | 0.019 |  |
| Youngstock 1-2 yr (400 kg) |  |  | 0.016 |  |
| Youngstock 6-12 mths |  |  | 0.008 |  |
| Calf |  |  | 0.005 |  |
| Bull |  |  | 0.019 |  |
| Sheep |  |  | 0.003 |  |
| Lamb (up to 6 months) |  |  | 0.001 |  |
| Lamb (6-12 months) |  |  | 0.002 |  |
|  |  |  | Total Area Required | 0.00 |

|  |  |  |  |
| --- | --- | --- | --- |
| PIGS | | | |
| Type | Number of pigs  (n) | Land area/pig 250 Kg/ha  x | Total area required  = |
| Maiden Gilts |  | 0.052 |  |
| Breeding Sows & Boards |  | 0.080 |  |
| Weaners 4- 8 weeks |  | 0.013 |  |
| Growers 8-12 weeks |  | 0.025 |  |
| Finishers over 12 weeks |  | 0.042 |  |
|  |  | Total Area | 0.00 |

If land area available is greater than land area required, plan is complete.

If land area required is greater than land area available, alternative action will be required to export the manure or secure additional land for spreading the manure.

**NVZs**

Producers who are in NVZs and already have manure management plans in place should not need to complete this plan template in addition as the existing plan should fulfil the assurance scheme requirement.

For producers in an NVZ but who do not have a manure management plan at present, the details within this plan will help fulfil the requirements. They are not complete, as the NVZ rules apply additional requirements on available storage capacities and have ‘closed periods’ when spreading is not permitted.

**Manure Management Plan – 170 kg/ha**

**Step 1: Map**

Prepare a map of the farm using a system such as colour coding to identify areas where manure must not be spread (eg within 10m of watercourses); where spreading is possible but with some restrictions; and areas where spreading can be carried out throughout the year.

**Step 2: Area Available**

From the details identified on the map, estimate the total areas available for spreading.

|  |  |  |  |
| --- | --- | --- | --- |
| **What** | **Where** | **Spreadable Area** | **When – Identify Restrictions** |
| Non-spreading areas | Fields where manure would not normally be spread; non-farmed fields, woodlands or fields simply too far away from the farm buildings. | n/a | DO NOT SPREAD |
| Water | Any ditches, watercourses and ponds. Also, springs, wells or boreholes where water is used for human consumption and farm dairies, including any on neighbouring land close to the farm boundary | n/a | DO NOT SPREAD |
| Don’t Spread Areas | Areas where manure shouldn’t be spread. At least 10m either side of all ditches and watercourses; 50m around springs, wells and boreholes; steep slopes with a high risk of run-off throughout the year; and Environmentally Sensitive Areas, SSSI’s, or other land subject to management agreements. | n/a | DO NOT SPREAD |
| High Risk Areas | Fields next to a watercourse, spring or borehole with soil at field capacity with moderate slope or slowly permeable soil; where soil depth over fissured rock is less than 30cm; with effective pipe or field drains. |  | Avoid during winter and in a dry summer due to compact soil or cracks down to drains |
| Very High Risk Areas | Fields likely to flood sometime in most winters; next to a watercourse, spring or borehole; where surface is severely compacted, waterlogged or have a steep slope and the soil is a field capacity, has a moderate slope and slowly permeable soil. |  | Subject to ground conditions, can be used all year round but minimise application rates in winter |
| Low Risk Areas | All other areas not already marked |  | All year round |
| Total Spreadable Area Available: | |  |  |

**Step 3: Area Required**

Calculate the area required for spreading based on stock numbers and housing period

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RUMINANTS | | | | |
| Stock Unit | No of Stock Units  (n) | Months Housed  x | Hectares needed By Stock Unit  x | Total Area Needed (Ha)  = |
| Cow (650 kg) |  |  | 0.057 |  |
| Cow (550 kg) |  |  | 0.047 |  |
| Cow (450 kg) |  |  | 0.037 |  |
| Heifer 2 year + (500 kg) |  |  | 0.028 |  |
| Youngstock 1-2 yr (400 kg) |  |  | 0.024 |  |
| Youngstock 6-12 mths |  |  | 0.012 |  |
| Calf |  |  | 0.007 |  |
| Bull |  |  | 0.028 |  |
| Sheep |  |  | 0.004 |  |
| Lamb (up to 6 months) |  |  | 0.001 |  |
| Lamb (6-12 months) |  |  | 0.003 |  |
|  |  |  | Total Area Required | 0.00 |

|  |  |  |  |
| --- | --- | --- | --- |
| PIGS | | | |
| Type | Number of pigs  (n) | Land area/pig 170 Kg/ha  x | Total area required  = |
| Maiden Gilts |  | 0.076 |  |
| Breeding Sows & Boards |  | 0.118 |  |
| Weaners 4- 8 weeks |  | 0.109 |  |
| Growers 8-12 weeks |  | 0.037 |  |
| Finishers over 12 weeks |  | 0.062 |  |
|  |  | Total Area | 0.00 |

If land area available is greater than land area required, plan is complete.

If land area required is greater than land area available, alternative action will be required to export the manure or secure additional land for spreading the manure.

**NVZs**

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