



Ammonia and Agriculture





## **About Ammonia**

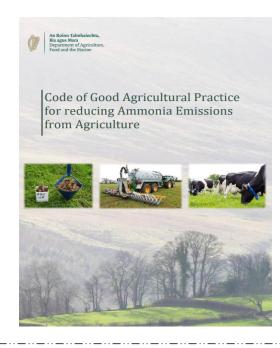
Ammonia (NH<sub>3</sub>) is a reactive, soluble gas. Excessive levels can be harmful to human and animal health and toxic to plants.

Ammonia is an air pollutant and not a greenhouse gas. However, Ammonia can contribute indirectly to greenhouse gas emissions and therefore climate change. When atmospheric ammonia dissolves in rain, it is re-deposited elsewhere, where it can facilitate the emission of potent nitrous oxide, a GHG.

## Sources

Agriculture is responsible for 99% of ammonia emissions in Ireland. The main source of these emissions is from animal manures, particularly how they are managed i.e., stored and applied. Artificial fertilisers also contribute to ammonia emissions.





DAFM's Code of Good Agricultural Practice for reducing Ammonia Emissions from Agriculture explores in detail the strategies to reduce ammonia emissions. Click on the image above to find out more.

# **Targets**

As a member state of the European Union and under the National Emissions Ceiling Directive (NECD), Ireland must reduce ammonia emissions to 5% below 2005 levels by 2030. Failing to do so could have repercussions for Ireland's image as a producer of sustainable green food.

# Simple Solutions, Big difference

Meeting reduction targets will depend on action at farm level. Some alterations to farm practices have been shown to make a huge difference, some effective measures of which are:

- Low Emission Slurry Systems (LESS) like injection and trailing shoe opposed to conventional splash plate
- Fertiliser types replacing urea and other nitrogen products with protected urea
- Implementation of appropriate Nutrient Management Plans
- Extended grazing seasons
- Covered manure stores
- Clover incorporation





#### **Further Information**

DAFM - gov.ie - Code of Good Agricultural Practice for reducing Ammonia Emissions from Agriculture (www.gov.ie)

Teagasc <u>- https://www.teagasc.ie/environment/climate-change--air-quality/ammonia/</u>

The Teagasc MACC - <u>NH3-Ammonia-MACC.pdf</u> (teagasc.ie)