

Digestate Emission Factors

Reference Guide

Emission factors for digestate and sewage sludge land application are provided in Table 1 below.

Specific digestate emission factors for each cattle type are available here: [Development that may have an effect on air quality | Department of Agriculture, Environment and Rural Affairs](#) (click on 'Northern Ireland NH3 Cattle Emission Factors')

Table 1. Digestate Emission Factors

Emission factors for digestate and sewage sludge applications to land (2022)	(kg NH₃/tonne/digestate applied) based on full inventory year
Digestate (manure) - non-specific = dairy, beef, pig and poultry-based digestate	2.34 (fresh matter basis)
Digestate (non-manure) - non-specific = crop-based, food waste-based and other digestate	1.81 (fresh matter basis)
Crop-based digestate	1.66 (fresh matter basis)
Food waste-based digestate	2.09 (fresh matter basis)
Other digestate (non-manure)	1.40 (fresh matter basis)
Sewage sludge	0.71 (dry matter basis)