



ANNEX 2: Estimate of ammonia emissions from agriculture for each UK nation

Table AN1. Estimate of ammonia emissions from agriculture for 2023 from England, Northern Ireland, Scotland and Wales with livestock emissions reported either by livestock category (a), or manure management category (b) and together with other non-livestock sources (c).

Source	England		Northern Ireland		Scotland		Wales	
	kt NH3*	% of total	kt NH3*	% of total	kt NH3*	% of total	kt NH3*	% of total
a. Livestock emissions by livestock category	99.4	66.6	28.0	91.0	23.3	80.5	18.3	85.0
Cattle	61.7	41.3	20.8	67.6	17.4	59.9	13.3	61.8
<i>Dairy cows</i>	34.8	23.3	9.6	31.1	4.9	16.8	7.6	35.3
<i>Other cattle</i> [#]	26.9	18.0	11.2	36.4	12.5	43.1	5.7	26.6
Sheep	5.6	3.8	0.8	2.6	2.6	8.9	2.7	12.6
Pigs	11.2	7.5	2.5	8.0	1.1	3.7	0.1	0.4
Poultry	20.2	13.5	3.9	12.7	2.1	7.3	2.0	9.3
Minor livestock [†]	0.8	0.5	0.0	0.1	0.2	0.6	0.2	0.9
b. Manure emissions by management category	99.4	66.6	28.0	91.0	23.3	80.5	18.3	85.0
Grazing/outdoors	9.7	6.5	2.3	7.4	3.4	11.7	3.2	14.7
Housing	33.7	22.5	10.3	33.5	8.0	27.4	5.6	26.3
Hard standings	7.6	5.1	2.2	7.3	2.4	8.3	1.6	7.6
Manure storage	12.5	8.3	2.5	8.0	2.0	6.9	2.2	10.3
Manure application to soil	33.1	22.1	9.6	31.0	7.3	25.1	5.4	25.2
Manure digestate storage	0.3	0.2	0.1	0.4	0.0	0.1	0.0	0.1
Manure digestate application to soil	2.6	1.7	1.0	3.3	0.3	1.0	0.2	0.8
c. Other sources	50.0	33.4	2.8	9.0	5.7	19.5	3.2	15.0
Fertiliser application	32.7	21.9	1.9	6.3	4.1	14.0	2.3	10.7
<i>Urea and UAN fertiliser</i>	25.1	16.8	1.1	3.6	2.6	8.9	1.4	6.5
<i>Other nitrogen fertiliser</i> [§]	7.6	5.1	0.8	2.7	1.5	5.2	0.9	4.2
Sewage sludge application	4.2	2.8	0.0	0.1	0.2	0.7	0.3	1.3
Non-manure digestate application	13.0	8.7	0.8	2.5	1.4	4.8	0.6	2.9
TOTAL	149.4		30.8		29.0		21.5	

[#]Other cattle refer to all beef cattle and non-lactating dairy cattle

[†] Horses, goats and deer on agricultural holdings

* Totals may differ from sum of components due to rounding

[§]Other nitrogen fertilisers include ammonium nitrate, calcium ammonium nitrate, ammonium sulphate, diammonium phosphate and other nitrogen fertilisers (including compound blends)