

Environmental Audit Committee February 2021.

Environmental Audit Committee Inquiry : Water Quality and Rivers.

Supplementary Submission 1 of Marinet Limited.

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The Scale of intensive indoor livestock farming in the United Kingdom, and the impact of its related sewage disposal regime upon Water Quality in Rivers.

We provide here tabulated data based on research undertaken by Compassion in World Farming (CIWM) published 2021, ref. <https://www.ciwf.org.uk/factory-farm-map/#pig/all>

The Tables below record the information for indoor reared pigs, meat chickens, egg chickens, and dairy cows. Specifically:

- Individual Levels for these livestock animals being reared intensively indoors in the counties of England, Wales, Scotland and Northern Ireland.
- Total Levels for these livestock animals being reared intensively indoors in the counties of England, Wales, Scotland and Northern Ireland.
- Total Levels for these livestock animals being reared intensively indoors in the United Kingdom as a whole.

Note: CIWM advise: “There is little publicly available information on the method of production system used on-farm. Therefore, the number of animals and farms are estimates of chickens, pigs and dairy cows that are permanently housed indoors in the UK.” It is also to be noted that in a large number of categories no data was available, so the figures cited are likely to be under-estimates of the total levels of indoor intensive livestock farming in the UK.

In England, the 40,000 dairy cows being farmed in this way occur across 70 farms; the 11 million egg laying hens occur across 60 farms and the 100 million broiler (meat) chickens occur across 800 farms; whilst in the UK as a whole the 1.3 million pigs occur in over 200 farms.

It is estimated that around 73% of farmed animals in the UK are kept in indoor factory farms, with a 26 per cent rise in intensive animal farming in the UK in the last six years. In the case of intensively reared chickens (egg laying and broiler) there are now approximately 1,400 factory farms (2017 figure) whereas in 2000 there were none. This intensive indoor farming of livestock is therefore a recent development in farming practices, ref. <https://www.thebureauinvestigates.com/stories/2017-07-17/megafarms-uk-intensive-farming-meat>

The specific issue that Marinet places before the House of Commons Environmental Audit Committee, with the request that it be asked of DEFRA and the UK farming industry, is:

● **How is the animal livestock waste (sewage) disposed of at these animal intensive indoor farms to ensure that:**

a/. **All this animal waste is neutralised in terms of its pathogen content (viral, bacterial and parasitic) before disposal, given that it will contain antibiotic resistant bacteria (AMR) due to the husbandry regimes employed.**

b/. **None of this animal waste is released into rivers and watercourses.**

Title: Individual and Total Levels for livestock animals being reared intensively indoors in the counties of England.

Source: CIWM, 2021.

<i>County</i>	<i>Pigs</i>	<i>Meat Chickens</i>	<i>Egg Chickens</i>	<i>Dairy Cows</i>	<i>All</i>
Norfolk	130,000	12,231,000	No data available	No data available	12,363,000
Suffolk	140,000	5,623,000	15,000	No data available	5,779,000
Essex	10,960	2,163,000	No data available	No data available	2,174,000
Cambridge	No data available	1,903,000	75,000	No data available	1,978,000
Kent	No data available	No data available	1,652,000	280	1,652,280
W. Sussex	12,410	40,000	424,000	No data available	476,000
E. Sussex	No data available	153,000	No data available	180	153,180
Hampshire	13,370	1,152,000	187,000	No data available	1,352,000
Dorset	50,920	606,000	538,000	2,070	1,196,990
Wiltshire	18,050	2,237,000	634,000	200	2,889,250
Somerset	38,760	3,625,000	702,000	2,660	4,368,000
Devon	22,610	1,715,000	708,000	2,760	2,449,000
Cornwall	15,480	340,000	No data available	2,900	358,380
Oxfordshire	43,590	1,405,000	No data available	No data available	1,485,590
Bedford	6,550	210,000	59,000	No data available	275,550
Buckingham	No data available	1,537,000	No data available	No data available	1,537,000
Hertford	No data available	780,000	No data available	No data available	780,000
Northampton	15,570	247,000	114,000	No data available	376,570
Warwickshire	21,710	1,189,000	No data available	No data available	1,210,710
Worcester	6,200	1,292,000	72,600	190	1,370,990
W. Midlands	750	90,000	No data available	No data available	90,750
Leicestershire	29,620	1,775,000	No data available	No data available	1,804,620
Gloucester	10,670	3,535,000	285,000	1,180	3,831,850
Hereford	5,010	16,726,000	113,000	No data available	16,844,010
Shropshire	23,040	13,360,000	1,330,000	2,040	14,715,080
Staffordshire	12,050	2,707,000	650,000	No data available	3,369,050
Derbyshire	5,400	1,853,000	No data available	260	1,858,660
Nottingham	No data available	2,142,000	476,000	No data available	2,618,000
Lincolnshire	41,970	11,885,000	268,000	No data available	12,194,970
Cheshire	4,750	2,122,000	697,000	3,160	2,826,910
Manchester	No data available	462,000	120,000	No data available	582,000
S. Yorkshire	13,570	No data available	No data available	No data available	13,570
W. Yorkshire	48,020	1,585,000	No data available	490	1,633,510
N. Yorkshire	221,000	6,868,000	164,000	2,220	7,255,220
E. Yorkshire	144,000	2,884,000	344,000	No data available	3,372,000
Lancashire	11,560	1,879,000	498,000	3,070	2,391,630
Cumbria	14,710	3,228,000	No data available	680	3,243,390
Durham	4,400	40,000	132,000	No data available	576,400
Totals	1,136,700	103,558,000	10,257,600	24,340	114,976,640

Title: Individual and Total Levels for livestock animals being reared intensively indoors in the counties of Wales. Source: CIWM, 2021.

<i>County</i>	<i>Pigs</i>	<i>Meat Chickens</i>	<i>Egg Chickens</i>	<i>Dairy Cows</i>	<i>All</i>
Powys	1,000	2,949,000	64,000	1,000	3,015,000
Dyfed	750	No data available	No data available	3,710	4,460
Gwent	5,350	1,920,000	60,000	No data available	1,985,350
Clwyd	No data available	810,000	No data available	250	810,250
Glamorgan	No data available	No data available	295,000	No data available	295,000
Gwynedd	1,520	1,430,000	No data available	No data available	1,431,520
Totals	8,620	7,109,000	419,000	4,960	7,541,580

Title: Individual and Total Levels for livestock animals being reared intensively indoors in the counties of Scotland. Source: CIWM, 2021.

<i>County</i>	<i>Pigs</i>	<i>Meat Chickens</i>	<i>Egg Chickens</i>	<i>Dairy Cows</i>	<i>All</i>
Scot. Borders	1,050	48,420	No data available	1,550	51,020
Dumfries / Galloway	No data available	615,000	No data available	6,350	621,350
Strathclyde	700	No data available	46,800	215	47,715
Lothian	3,370	2,862,000	100,000	No data available	2,965,370
Fife	No data available	878,000	492,000	No data available	1,370,000
Central	No data available	1,200,000	No data available	No data available	1,200,000
Tayside	No data available	2,755,000	No data available	No data available	2,755,000
Grampian	20,340	1,010,000	614,000	No data available	1,644,340
Totals	25,460	9,368,420	1,252,800	8,115	10,654,795

Title: Individual and Total Levels for livestock animals being reared intensively indoors in the counties of Northern Ireland. Source: CIWM, 2021.

<i>County</i>	<i>Pigs</i>	<i>Meat Chickens</i>	<i>Egg Chickens</i>	<i>Dairy Cows</i>	<i>All</i>
Fermanagh	No data available	65,000	415,000	No data available	480,000
Tyrone	24,920	8,210,000	316,000	No data available	8,550,920
Londonderry	No data available	1,576,000	91,000	No data available	1,667,000
Antrim	17,850	4,825,000	287,000	870	5,130,720
Down	26,770	2,382,000	No data available	300	2,409,070
Armagh	39,220	3,132,000	No data available	735	3,171,955
Totals	108,760	20,190,000	1,109,000	1,905	21,409,665

Title: Total Levels for livestock animals being reared intensively indoors in the United Kingdom as a whole. Source: CIWM 2021.

<i>Country</i>	<i>Pigs</i>	<i>Meat Chickens</i>	<i>Egg Chickens</i>	<i>Dairy Cows</i>	<i>All</i>
England	1,136,700	103,558,000	10,257,600	24,340	114,976,640
Wales	8,620	7,109,000	419,000	4,960	7,541,580
Scotland	25,460	9,368,420	1,252,800	8,115	10,654,795
N. Ireland	108,760	20,190,000	1,109,000	1,905	21,409,665
United Kingdom	1,279,540	140,225,420	13,038,400	39,320	154,582,680

End.