

Appendices

APPENDIX A: DEFINITION OF NFR CODES

Table A1: Definition of NFR Codes

NFR Code	NFR Source Description
1A1a	1 A 1 a Public Electricity and Heat Production
1A1b	1 A 1 b Petroleum refining
1A1c	1 A 1 c Manufacture of Solid Fuels and Other Energy Industries
1A2	1 A 2 Manufacturing Industries and Construction
1A2a	1 A 2 a Iron and Steel
1A2b	1 A 2 b Non-ferrous Metals
1A2c	1 A 2 c Chemicals
1A2d	1 A 2 d Pulp, Paper and Print
1A2e	1 A 2 e Food Processing, Beverages and Tobacco
1A2fi	1 A 2 f i Stationary combustion in manufacturing and construction: Other
1A2fii	1 A 2 f ii Mobile combustion in manufacturing industries and construction
1A3ai(i)	1 A 3 a ii Civil Aviation (International, Landing & Take-Off)
1A3aii(i)	1 A 3 a ii Civil Aviation (Domestic, Landing & Take-Off)
1A3b	1 A 3 b Road Transportation
1A3bi	1 A 3 b i Road Transport, Passenger cars
1A3bii	1 A 3 b ii Road Transport, Light duty vehicles
1A3biii	1 A 3 b iii Road Transport, Heavy duty vehicles
1A3biv	1 A 3 b iv Road Transport, Mopeds & Motorcycles
1A3bv	1 A 3 b v Road Transport, Gasoline evaporation
1A3bvi	1 A 3 b vi Road Transport, Automobile tyre and brake wear
1A3bvii	1 A 3 b vii Road Transport, Automobile road abrasion
1A3c	1 A 3 c Railways
1A3dii	1 A 3 d ii National Navigation
1A3e	1 A 3 e Other (to be specified)
1A3ei	1 A 3 e i Pipeline compressors
1A3eii	1 A 3 e ii Other mobile sources and machinery
1A4a	1 A 4 a Commercial / Institutional Combustion
1A4ai	1 A 4 a Commercial / Institutional: Stationary
1A4b	1 A 4 b Residential
1A4bi	1 A 4 b i Residential plants
1A4bii	1 A 4 b ii Household and gardening (mobile)
1A4c	1 A 4 c Agriculture / Forestry / Fishing
1A4ci	1 A 4 c i Stationary
1A4cii	1 A 4 c ii Off-road Vehicles and Other Machinery
1A4ciii	1A 4 c iii National Fishing
1A5a	1 A 5 a Other, Stationary (including Military)

NFR Code	NFR Source Description
1A5b	1 A 5 b Other, Mobile (Including military)
1B1	1 B 1 Fugitive Emissions from Solid Fuels
1B1a	1 B 1 a Coal Mining and Handling
1B1b	1 B 1 b Solid fuel transformation
1B1c	1 B 1 c Other (to be specified)
1B2	1 B 2 Oil and natural gas
1B2a	1 B 2 a Oil
1B2ai	1 B 2 a i Exploration Production, Transport
1B2aiv	1 B 2 a iv Refining / Storage
1B2av	1 B 2 a v Distribution of oil products
1B2avi	1 B 2 a vi Other
1B2b	1 B 2 b Natural gas
1B2c	1 B 2 c Venting and flaring
2A	2 A MINERAL PRODUCTS (b)
2A1	2 A 1 Cement Production
2A2	2 A 2 Lime Production
2A3	2 A 3 Limestone and Dolomite Use
2A4	2 A 4 Soda Ash Production and use
2A5	2 A 5 Asphalt Roofing
2A6	2 A 6 Road Paving with Asphalt
2A7	2 A 7 Other including Non Fuel Mining & Construction (to be specified)
2A7a	2A7a Quarrying and mining of minerals other than coal
2A7b	2A7b Construction and demolition
2A7c	2A7c Storage, handling and transport of mineral products
2A7d	2A7d Other Mineral products
2B	2 B CHEMICAL INDUSTRY
2B1	2 B 1 Ammonia Production
2B2	2 B 2 Nitric Acid Production
2B3	2 B 3 Adipic Acid Production
2B4	2 B 4 Carbide Production
2B5	2 B 5 Other (to be specified)
2B5a	2 B 5a Other Chemical Industry (to be specified)
2C	2 C METAL PRODUCTION
2C1	2 C 1 Iron and steel production
2C3	2 C 3 Aluminium production
2C5a	2 C 5 a Copper production
2C5b	2 C 5 b Lead production
2C5d	2 C 5 d Zinc production
2C5e	2 C 5 e Other metal production
2D	2 D OTHER PRODUCTION (b)
2D1	2 D 1 Pulp and Paper
2D2	2 D 2 Food and Drink
2D3	2 D 3 Wood processing
2E	2E_Production_of_Halocarbons_and_Sulphur_Hexafluoride
2E1	2 E 1 Halocarbons production (by-product)
2E2	2 E 2 Halocarbons production (fugitive)

NFR Code	NFR Source Description
2F	2 F Halocarbons use
2G	2 G OTHER (to be specified)
3A	3 A PAINT APPLICATION
3A1	3 A 1 Decorative coating application
3A2	3 A 2 Industrial coating application
3A3	3 A 3 Other coating application (Please specify the sources included/excluded in the notes column to the right)
3B	3 B DEGREASING AND DRY CLEANING
3B1	3 B 1 Degreasing
3B2	3 B 2 Dry cleaning
3C	3 C CHEMICAL PRODUCTS, MANUFACTURE AND PROCESSING
3D	3 D OTHER incl. products containing HMs and POPs (to be specified)
3D1	3 D 1 Printing
3D2	3 D 2 Domestic solvent use including fungicides
3D3	3 D 3 Other product use
4A1	4 A 1 Enteric_Fermentation_Cows
4A10	4 A 10 Enteric_Fermentation_Deer
4A3	4 A 3 Enteric_Fermentation_Sheep
4A4	4 A 4 Enteric_Fermentation_Goats
4A6	4 A 6 Enteric_Fermentation_Horses
4A8	4 A 8 Enteric_Fermentation_Swine
4B	4 B MANURE MANAGEMENT (c)
4B1	4 B 1 Cattle
4B1a	4 B 1 a Dairy
4B1b	4 B 1 b Non-Dairy
4B11	4 B 11 Liquid_Systems
4B12	4 B 12 Solid_Storage_and_Drylot
4B13	4 B 13 Other
4B1a	4 B 1 a Dairy
4B1b	4 B 1 b Non-Dairy
4B2	4 B 2 Buffalo
4B3	4 B 3 Sheep
4B4	4 B 4 Goats
4B5	4 B 5 Camels and Llamas
4B6	4 B 6 Horses
4B7	4 B 7 Mules and Asses
4B8	4 B 8 Swine
4B9a	4 B 9 a Laying hens
4B9b	4 B 9 b Broilers
4B9d	4 B 9 d Other poultry
4C	4 C RICE CULTIVATION
4D	4 D AGRICULTURAL SOILS
4D1	4 D 1 Direct Soil Emission
4F	4 F FIELD BURNING OF AGRICULTURAL WASTES
4G	4 G OTHER (d)

NFR Code	NFR Source Description
5B	5 B FOREST AND GRASSLAND CONVERSION
5D	5D_CO2_Emissions_From_Soils
5E	5 E Other
6A	6 A SOLID WASTE DISPOSAL ON LAND
6B	6 B WASTE-WATER HANDLING
6C	6 C WASTE INCINERATION (e)
6Ca	6 C a Clinical waste incineration (d)
6Cb	6 C b Industrial waste incineration (d)
6Cc	6 C c Municipal waste incineration (d)
6Cd	6 C d Cremation
6Ce	6 C e Small scale waste burning
6D	6 D OTHER WASTE: Composting and accidental fires
7A	7 A OTHER
Memo Items	
1A3ai(ii)	International Aviation (Cruise)
1A3aii(ii)	Domestic Aviation (Cruise)
1A3di(i)	International maritime Navigation
1A3di(ii)	International inland waterways (included in NEC totals only)
X	X (11 08 Volcanoes)

APPENDIX B: METHODS FOR CALCULATING EMISSION DISTRIBUTIONS

For a more detailed description of the integration of point source data analysis and the development of UK emission maps, see Chapter 3 of “*UK Emission Mapping Methodology 2009*” (Tzagatakis *et al.*, 2011). This report outlines in detail the analysis conducted to analyse known point source emissions data, and derive the ‘area’ emission sources that make up the remaining component of UK emission totals. These area sources are then disaggregated geographically across the UK using a range of methods according to available data for the source in question. The geographical distribution of emissions across the UK is then built up from distributions of emissions in each source sector.

For large industrial point sources, emissions are compiled from a variety of official UK sources (Environment Agency, Scottish Environment Protection Agency, Northern Ireland Environment Agency, DECC Offshore Inspectorate, Local Authorities). The area source distribution maps are generated using appropriate surrogate statistics for that sector, commonly using local activity statistics such as raw material use, energy use, industrial production and employment data, housing and population data, road vehicle and fuel sales data, periodic census or socio-economic survey data.

For road transport sector, there are a number of improvements made to the 2009 DA Air Quality Inventories. Data and method improvements to the DA Greenhouse Gas Inventories (through the UK and DA inventory improvement programme) have also been adopted, benefiting the DA Air Quality Inventories. The changes are summarised below:

- The use of DA-specific fleet data on petrol/diesel car mix, car engine size and fleet composition (i.e. age distribution) for cars, LGVs and rigid HGVs for Scotland, Wales and England based on DVLA data. This information is used to derive pollutant-specific DA drivers for NO_x, PM₁₀, CO and NMVOCs, of which road transport contributes a high proportion of the total emissions. (Please note that for Pb, SO₂ and NH₃, road transport has a relatively small contribution to total emissions and so they are continued to follow the DA splits based on carbon dioxide drivers). For Northern Ireland, the proportion of diesel cars is much higher and it also has a newer car fleet than the GB average and this is accounted for in the Northern Ireland inventory.
- The use of DA-specific data on trip lengths (which only showed differences for Northern Ireland);
- The use of a consistent time series of vehicle km data for 1993 to 2009 by road type and vehicle type for England, Wales and Scotland (this dataset is made available by Department for Transport for the first time);
- Revisions to vehicle km activity data for cars, LGVs and rigid HGVs in Northern Ireland after clarification on the vehicle classifications used in the traffic census report.
- For evaporative emissions, the DA driver is now based on the DA petrol consumptions by cars, LGVs and motorcycles (as opposed to the DA splits by total petrol consumption used in the previous inventories).
- For tyre and brake wear and road abrasion emissions, the DA driver is now based on DA vehicle kilometre splits by vehicle and road type.

Table B1 provides a simple overview of the different data used to map the SNAP sectors, whilst Table B2 below provides a more detailed insight into the disaggregation methodologies used to compile the DA air quality pollutant inventories. Table B2 is presented using the NFR reporting structure, which is the format currently required for the LRTAP submission.

Table B1: Methods used to Map Emissions in each of the 11 UNECE Source Sectors

<p>1 Combustion in energy production and transfer points offshore IDBR employment</p>	<p>6 Solvent use population points IDBR employment Land use</p>
<p>2 Combustion in commercial, institutions, residential and agricultural sectors points domestic fuel use IDBR employment IDBR agriculture IDBR commercial and public fuel use</p>	<p>7 Road transport road transport</p>
<p>3 Combustion in industry points IDBR employment IDBR industry fuel use</p>	<p>8 Other transport and machinery agriculture airports other rail shipping IDBR employment population</p>
<p>4 Production processes points IDBR employment shipping road transport population other</p>	<p>9 Waste Treatment and disposal landfill Land use Offshore points IDBR employment</p>
<p>5 Extraction / Distribution of fossil fuels points offshore other domestic fuel use population</p>	<p>10 Agricultural, forests and landuse change agriculture Land use</p> <p>11 Other sources and sinks Land use population</p>

Table B2: Disaggregation Methodologies for compiling the DA Air Quality Pollutant Inventories

NFR Sector	Source	Disaggregation Method
1A1a	Power stations (all fuels)	All emissions are derived from the AEA point source database, which is based on annual emissions estimates reported to UK environmental regulators by IPC/IPPC-regulated industry and (since 2005) fuel use data available from the EUETS. Environment Agency (2010a,b), SEPA (2010a,b), NIEA (2010a,b)
1A1b	Refineries (all fuels)	Point source data provided by plant operators to IPC/IPPC pollution inventories (see 1A1a). Further detail on combustion and process emissions provided by UKPIA (2010).
1A1c	Coke & SSF production (all fuels)	Point source data provided by plant operators (see 1A1a). Regional iron & steel production and fuel use data (ISSB, 2010). UK fuel use data from DECC (2010a).
	Nuclear fuel production (all fuels)	All emissions are in England
	Colliery combustion (all fuels)	Deep mined coal production, data from the Coal Authority (2010).
	Gas production & gas separation plant (all fuels)	Arrivals of natural gas, DECC (2010a,d), DECC Oil & Gas EEMS inventory (2010)
	Offshore oil & gas (Natural gas use)	DECC Offshore Inspectorate (2010) EEMS inventory. Point source data for NO _x , SO ₂ , VOC. (CO and PM ₁₀ assumed same as SO ₂ .)
1A2a	Blast furnaces & sinter plant	Point source data provided by plant operators (see 1A1a), supplemented by site-specific breakdown of emissions from Corus (2010).
	Iron & steel combustion plant (all fuels)	Regional iron & steel production and fuel use data (ISSB, 2010).
1A2b	Primary lead & zinc production, secondary copper, aluminium & lead production, copper alloy & semis production, zinc oxide and zinc alloys production, lead battery manufacture.	Point source data provided by plant operators (see 1A1a).

NFR Sector	Source	Disaggregation Method
1A2f	Refractory & ceramic production	Regional GDP data (ONS, 2010).
	Autogenerators (coal)	All emissions in England.
	Lime, cement, brick and ammonia production (all fuels)	Point source data from plant operators (see 1A1a). All lime production and ammonia production in England.
	Other industrial combustion (oils)	Sub-national energy statistics, DECC (2010b), and analysis of AEA point source data derived from EUETS and IPPC data. Environment Agency (2010a,b), SEPA (2010a,b), NIEA (2010a,b)
	Other industrial combustion (SSF, coke)	
	Other industrial combustion (coal)	
	Other industrial combustion & auto-generators (gas)	Natural gas consumption data from gas network operators: Transco (2010), Northern Gas Networks (2010), Scotia Gas (2010), Wales & West (2010), Phoenix Gas (2010), Firmus Energy (2010). Regional energy statistics, DECC (2010b), and analysis of AEA point source data derived from EUETS and IPPC data. Environment Agency (2010a,b), SEPA (2010a,b), NIEA (2010a,b).
Industrial off-road machinery (all fuels)	Sub-national energy statistics, DECC (2010b), and DA GDP data, ONS (2010).	
1A3ai (i)	Aircraft – international take-off and landing (all fuels)	CAA (2010), UK airport statistics. All take-off and landing cycle emissions for each flight assigned to DA of origin airport.
1A3aii (i)	Aircraft – domestic take-off and landing (all fuels)	
1A3bi to 1a3bvii	Road Transport	Vehicle km, DfT, NIDRD Emission factors, Boulter et al. (2009) and COPERT 4 (EEA, 2007) Composition of fleet, Vehicle Licensing Statistics Report (DfT) and Northern Ireland Transport Statistics (NIDRD). Fuel consumption, Digest of UK Energy Statistics, DECC (2010a)
1A3c	Railways: intercity, regional and freight	Gas oil consumption estimates, Railtrack, ATOC, Translink (2010)

NFR Sector	Source	Disaggregation Method
1A3dii	Coastal shipping (gas oil, fuel oil)	Port movement data, DfT (2010b) Maritime Statistics.
1A3eii	Aircraft support vehicles (gas oil)	Regional aircraft movements, DfT (2010d)
1A4a	Railways – stationary combustion	Sub-national energy statistics, DECC (2010b)
	Industrial & commercial combustion	Sub-national energy statistics, DECC (2010b), and analysis of AEA point source data and public and commercial mapping grids from regional employment data by sector. Gas use data supplemented by data from gas network operators (same references as 1A2f).
	Public sector combustion	
1A4bi	Domestic combustion	For coal, anthracite, petroleum fuels, analysis is from Sub-national energy statistics, DECC (2010b) and Housing Condition Survey data. Domestic peat combustion data from CEH (2010). Gas use data provided by gas network operators (same references as 1A2f). Domestic mapping grid for GB was updated in 2010, and this has been used.
1A4bii	House & garden machinery (all fuels)	Regional dwellings data, ONS (2010).
1A4ci	Agriculture – Stationary combustion	Agricultural employment data, Defra (2010) used for allocation of solid and gaseous fuels. Regional energy statistics, DECC (2010b) used for petroleum-based fuels.
1A4cii	Agriculture – mobile machinery	Agricultural off-road mapping grid, with overall petroleum fuel allocations constrained to the DECC sub-national energy data (DECC, 2010b)
1A4ciii	Fishing vessels	Port movement data, DfT (2010b) Maritime Statistics.
1A5b	Military aircraft and naval shipping	Regional GDP data (ONS, 2010).
1B1a	Deep-mined coal	Regional deep mine production, Coal Authority (2010).
1B1b	Coke & SSF production	Point source data provided by plant operators (see 1A1a).
	Iron & steel flaring	Regional iron & steel production and fuel use data (ISSB, 2010).
1B2ai	Offshore oil & gas: offshore oil loading, well testing.	All emissions unallocated.

NFR Sector	Source	Disaggregation Method
	Offshore oil & gas: process emissions, onshore oil loading, oil terminal storage	Emissions derived from the DECC Offshore Inspectorate (2010) EEMS point source dataset, with extrapolations back to cover 1990, 1995 where data gaps are evident.
1B2aiv	Refinery process emissions (drainage, tankage, general)	Point source data provided by plant operators (see 1A1a), UKPIA (2010) and analysed using the AEA point source database.
1B2av	Petrol terminal storage and loading, Refinery road and rail haulage emissions	Point source data provided by plant operators (see 1A1a).
	Petrol station emissions from delivery, vehicle refuelling, storage tanks and spillages	Regional road transport distribution based on analysis of vehicle km data for different vehicle types and the resultant fuel use distributions. Hence, references as 1A3b.
1B2b	Onshore gas production (gasification process emissions)	Point source data provided by plant operators (see 1A1a).
	Gas leakage from supply infrastructure	Leakage data provided by gas network operators: National Grid Transco (2010), Northern Gas Networks (2010), Scotia Gas Networks (2010), Wales & West Utilities (2010), Phoenix Gas (2010).
1B2c	Offshore oil & gas: flaring & venting	Emissions derived from the DECC Offshore Inspectorate (2010) EEMS point source dataset, with extrapolations back to cover 1990, 1995 where data gaps are evident.
	Refinery flaring	Point source data provided by plant operators (see 1A1a).
2A1	Cement decarbonising	Point source data provided by plant operators (see 1A1a).
	Concrete batching	Regional GDP data (ONS, 2010).
	Slag cement production	Slag cement production mapping grid
2A2	Lime production decarbonising	Point source data provided by plant operators (see 1A1a).
2A3	Limestone & dolomite use in: inter plant, glass production, basic oxygen furnaces. FGD emissions from power stations.	Point source data provided by plant operators (see 1A1a).

NFR Sector	Source	Disaggregation Method
2A4	Soda ash use in glass and chemical industries	Point source data provided by plant operators (see 1A1a).
2A7	Construction, asphalt manufacture	Regional GDP data (ONS, 2010).
	Quarrying (aggregates)	Quarries mapping grid.
	Glass industry process emissions	Point source data provided by plant operators and from EUETS (see 1A1a).
2B1	Ammonia production	All ammonia production now in England. Point source emissions data and plant capacity data used for earlier years.
2B2	Nitric acid production	Point source data provided by plant operators (see 1A1a). Now all England.
2B3	Adipic acid production	Point source data provided by plant operators (see 1A1a). All England.
2B5	Ship purging	All emissions unallocated.
	Chemical industry process emissions	Point source data provided by plant operators (see 1A1a).
2C	Industrial process emissions from SMEs, hot & cold steel rolling emissions	Regional GDP data (ONS, 2010).
	Process emissions from: blast furnaces, EAFs, BOFs, primary aluminium production & anode baking, alumina production, non-ferrous metal processes	Point source data provided by plant operators (see 1A1a), plus supplementary data provided by Corus (2010) and the ISSB (2010)
	Flaring & stockpile emissions at iron & steelworks	Regional iron & steel production and fuel use data (ISSB, 2010).
	Foundries	Foundries mapping grid
2D1	Paper production process emissions	Regional GDP data (ONS, 2010).

NFR Sector	Source	Disaggregation Method
	Wood product process emissions	Wood coating mapping grid.
2D2	Cider & wine manufacture	All emissions are in England.
	Spirit manufacture	Spirits mapping grid
	Brewery emissions	Brewing mapping grid
	Food & drink process industries: meat & fish, margarine, cakes & biscuits, animal feed, coffee roasting	Population used to disaggregate emissions.
	Other food & drink processes: bread baking, sugar beet, malting.	Point source data provided by plant operators (see 1A1a).
3	Solvent use	Population data, ONS (2010).
3A	Trade & retail decorative paints,	Population data, ONS (2010).
	Industrial coatings: commercial vehicles, aircraft, agricultural and construction vehicles.	Regional GDP data (ONS, 2010).
	Industrial coatings: wood, metal, plastic, marine, vehicle refinishing.	Various coatings mapping distribution grids are used, based on surveys of locations of such processes.
	Industrial coatings: coil, metal packaging, automotive, drum.	Point source data provided by plant operators (see 1A1a).
3B	Domestic surface cleaning.	Population data, ONS (2010).
	Dry cleaning (solvent use)	Dry cleaning mapping grid
	Industrial surface cleaning	Industrial employment mapping distribution grid.

NFR Sector	Source	Disaggregation Method
3C	Rubber & plastic products	Population data, ONS (2010).
	Leather coating and degreasing	Regional GDP data (ONS, 2010).
	Tyre manufacture and industrial coatings: textiles, film.	Point source data provided by plant operators (see 1A1a).
	Industrial coating manufacture: adhesives, inks, solvents and pigments	Various industry-specific coatings mapping distribution grids
3D	Industrial adhesives and solvent use, printing, aerosol and non-aerosol products (cosmetics & toiletries, household products, paint thinners),	Population data, ONS (2010).
	Printing – public gravure	Other printing mapping grid
	Road dressings	Road dressing mapping grid.
	Agrochemical use, wood impregnation	Various agricultural mapping distribution grids
	Seed oil extraction, paper coatings, some adhesive and printing processes.	Point source data provided by plant operators (see 1A1a).
4B1	Cattle waste: manure & excreta	Livestock data, via Rothamsted Research (2010) For NH ₃ , specific DA splits for manure management, based on regional emissions data for 1990, 1995, 2000-2009 provided by Rothamsted Research
4B3	Sheep & goat waste: manure & excreta	Livestock data, via Rothamsted Research (2010) For NH ₃ , specific DA splits for manure management, based on regional emissions data for 1990, 1995, 2000-2009 provided by Rothamsted Research
4B6	Horse waste: manure & excreta	Livestock data, via Rothamsted Research (2010)

NFR Sector	Source	Disaggregation Method
4B8	Pig waste: manure & excreta	Livestock data, via Rothamsted Research (2010) For NH ₃ , specific DA splits for manure management, based on regional emissions data for 1990, 1995, 2000-2009 provided by Rothamsted Research
4B9	Poultry wastes: manure & excreta	Livestock data, via Rothamsted Research (2010) For NH ₃ , specific DA splits for manure management, based on regional emissions data for 1990, 1995, 2000-2009 provided by Rothamsted Research
4B13	Domestic pets: manure & excreta	2009 Mapping data from CEH (2010) and population data, ONS (2010).
4D1	Use of domestic fertiliser & composting	Population data, ONS (2010). For NH ₃ , specific DA splits for fertiliser use, based on regional emissions data for 1990, 1995, 2000-2009 provided by Rothamsted Research
	Agricultural soil emissions	Rothamsted Research (2010), livestock data and fertiliser application data. For NH ₃ , specific DA splits for agricultural soils, based on regional emissions data for 1990, 1995, 2000-2009 provided by Rothamsted Research
4F	Field burning	Field burning estimates, via Rothamsted Research (2010)
5B	Deforestation	CEH (2010) regional distribution data.
6A	Landfills, benzoles & tars	Regional landfill MSW disposal data (www.wastedataflow.org)
6B	Sewage sludge decomposition	Population data, ONS (2010).
6C	Clinical waste incineration, small-scale waste burning	Population data, ONS (2010).
	Incineration: MSW, crematoria, sewage sludge, chemical waste	Point source data provided by plant operators (see 1A1a).

NFR Sector	Source	Disaggregation Method
	Foot & mouth pyres	Data on livestock disposal, NAO report.
6D	Nappies, accidental fires, composting	Population data, ONS (2010).
7	Cigarettes, fireworks & bonfires	Population data, ONS (2010).

APPENDIX C: DEVOLVED ADMINISTRATION PM₁₀ INVENTORIES, 1990-2009

Table C.1 PM₁₀ Emissions Inventory for England 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total(2009)
1A1a	57.54	31.64	20.27	16.04	17.39	11.96	6.06	6.35	6.43	7.46	7.90	6.42	6.72	4.93	-91%	-27%	5%
1A1b	1.86	2.13	2.08	2.04	1.57	1.38	1.33	1.22	1.40	1.32	1.08	0.91	0.79	1.02	-45%	29%	1%
1A1c	0.37	0.07	0.07	0.08	0.10	0.10	0.09	0.08	0.08	0.08	0.07	0.06	0.06	0.06	-85%	-12%	0%
1A2a	0.09	0.14	0.16	0.18	0.12	0.26	0.24	0.13	0.19	0.18	0.15	0.22	0.15	0.20	136%	34%	0%
1A2fi	11.26	10.12	8.61	7.06	5.56	5.83	5.02	5.03	5.11	4.26	3.85	3.52	3.33	3.22	-71%	-3%	4%
1A2fii	9.61	9.83	9.87	9.83	9.66	9.43	9.13	8.60	8.55	8.06	7.56	7.24	6.59	5.64	-41%	-14%	6%
1A3ai(i)	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	-1%	-5%	0%
1A3aii(i)	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	-34%	-18%	0%
1A3bi	7.20	8.34	7.81	7.80	6.38	6.29	6.06	5.88	5.76	5.66	5.43	5.24	5.06	4.89	-32%	-3%	5%
1A3bii	4.91	7.46	7.37	7.30	6.17	6.22	5.67	5.46	5.19	4.90	4.45	4.17	3.74	3.39	-31%	-9%	4%
1A3biii	13.40	12.33	10.01	9.01	7.57	6.71	6.02	5.45	5.07	4.58	4.23	3.72	3.02	2.47	-82%	-18%	3%
1A3biv	0.22	0.13	0.13	0.14	0.13	0.13	0.13	0.14	0.12	0.12	0.10	0.10	0.08	0.07	-66%	-6%	0%
1A3bvi	6.52	6.79	7.20	7.32	7.33	7.42	7.58	7.65	7.77	7.77	7.87	7.96	7.85	7.70	18%	-2%	8%
1A3bvii	3.40	3.56	3.81	3.88	3.88	3.93	4.01	4.03	4.10	4.10	4.15	4.19	4.14	4.04	19%	-2%	4%
1A3c	0.53	0.55	0.64	0.67	0.65	0.69	0.56	0.49	0.51	0.53	0.54	0.54	0.55	0.54	4%	-1%	1%
1A3dii	1.93	1.77	1.76	1.71	1.55	1.50	1.60	1.59	1.59	1.67	1.59	0.99	0.96	0.90	-54%	-6%	1%
1A4ai	2.64	1.60	1.09	0.98	0.81	1.03	0.69	0.63	0.62	0.67	0.65	0.58	0.62	0.69	-74%	12%	1%
1A4bi	28.22	15.28	16.41	18.07	12.93	11.45	9.06	8.47	8.43	8.06	8.32	9.48	10.32	10.16	-64%	-2%	11%
1A4bii	0.06	0.06	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-69%	1%	0%
1A4ci	2.17	2.17	2.13	2.17	2.10	2.11	2.09	2.09	2.08	2.28	2.52	2.39	3.83	3.85	77%	1%	4%
1A4cii	5.10	5.10	5.10	5.00	4.84	4.67	4.46	4.16	3.65	3.34	2.82	2.40	2.08	1.90	-63%	-8%	2%
1A4ciii	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-26%	-9%	0%
1A5b	1.04	0.90	0.86	0.89	0.88	0.84	0.84	0.87	0.89	0.83	0.82	0.91	0.83	0.74	-29%	-11%	1%
1B1b	0.37	0.24	0.26	0.26	0.19	0.15	0.23	0.22	0.22	0.25	0.38	0.34	0.37	0.28	-25%	-25%	0%
1B2c	0.01	0.00	0.00	0.00	0.02	0.02	0.10	0.16	0.18	0.36	0.21	0.24	0.19	0.02	330%	-88%	0%
2A1	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	100%	0%	0%
2A4	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2A6	0.30	0.33	0.27	0.26	0.25	0.27	0.27	0.27	0.22	0.23	0.25	0.24	0.23	0.24	-22%	5%	0%
2A7a	8.79	7.77	7.03	6.90	6.72	6.82	6.69	6.57	6.74	6.44	6.36	6.37	5.86	5.14	-42%	-12%	6%
2A7b	1.32	0.84	0.85	1.24	0.75	0.84	0.73	0.98	0.69	0.85	0.66	0.65	0.50	0.41	-69%	-18%	0%
2A7c	0.15	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.11	0.11	-24%	0%	0%
2A7d	4.13	3.89	3.45	3.23	3.28	3.17	3.13	3.24	3.44	3.84	3.62	3.78	3.16	2.37	-43%	-25%	3%
2B5a	2.64	2.03	1.28	1.13	0.97	1.00	0.99	0.88	0.55	0.60	0.63	0.50	0.35	0.16	-94%	-55%	0%
2C1	3.30	3.36	3.42	2.88	3.24	3.16	2.88	3.17	2.95	2.56	2.43	4.23	4.64	4.03	22%	-13%	4%
2C3	0.33	0.33	0.16	0.20	0.18	0.15	0.12	0.11	0.11	0.11	0.08	0.08	0.08	0.05	-86%	-46%	0%
2C5a	0.15	0.10	0.11	0.09	0.05	0.03	0.04	0.02	0.04	0.02	0.03	0.04	0.02	0.02	-88%	-3%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total(2009)
2C5b	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.01	0.02	0.02	0.01	0.02	0.02	-44%	8%	0%
2C5d	0.18	0.20	0.13	0.09	0.07	0.08	0.08	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-100%	-96%	0%
2C5e	4.93	3.31	1.70	1.13	0.78	0.75	0.70	0.68	0.57	0.57	0.51	0.38	0.40	0.20	-96%	-50%	0%
2D3	2.04	1.83	0.81	0.84	0.81	0.91	1.01	1.04	1.07	0.98	0.99	0.67	0.67	0.67	-67%	0%	1%
2G	1.82	1.82	1.71	1.60	1.69	1.79	1.74	1.69	1.64	1.59	1.59	1.60	1.59	1.59	-13%	0%	2%
3A2	6.35	4.74	4.91	4.80	4.45	4.23	4.34	4.28	4.22	4.18	4.43	4.43	3.82	3.13	-51%	-18%	3%
3A3	0.46	0.42	0.50	0.45	0.54	0.49	0.44	0.45	0.46	0.41	0.51	0.47	0.39	0.34	-25%	-13%	0%
3C	0.12	0.12	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.12	0%	-9%	0%
4B1a	0.31	0.29	0.26	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.21	0.20	0.19	0.19	-39%	-2%	0%
4B1b	0.21	0.20	0.19	0.19	0.19	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	-16%	1%	0%
4B8	1.56	1.57	1.68	1.54	1.53	1.50	1.15	1.01	1.05	0.98	1.01	0.98	0.96	0.96	-38%	0%	1%
4B9a	0.47	0.43	0.44	0.42	0.38	0.40	0.39	0.39	0.39	0.40	0.39	0.36	0.35	0.36	-23%	2%	0%
4B9b	3.29	3.32	4.38	4.64	4.72	5.10	4.76	5.17	5.34	5.04	5.03	4.93	4.95	4.60	40%	-7%	5%
4B9d	1.50	1.62	1.82	1.90	1.79	1.92	1.80	1.65	1.62	1.69	1.74	1.55	1.55	1.51	0%	-3%	2%
4F	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
4G	1.66	1.56	1.65	1.56	1.68	1.35	1.62	1.49	1.54	1.48	1.46	1.34	1.72	1.56	-6%	-9%	2%
6Ca	0.05	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	-62%	0%	0%
6Cb	0.17	0.08	0.06	0.04	0.03	0.04	0.03	0.03	0.01	0.01	0.01	0.01	0.00	0.00	-97%	0%	0%
6Cc	1.34	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	0.26	0.26	0.26	0.26	0.26	3.15	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0%	0%	0%
6Ce	3.38	3.38	3.39	3.39	3.39	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	1%	0%	4%
7A	2.90	2.93	2.69	2.88	2.78	2.88	2.87	3.31	2.76	2.76	2.71	2.56	2.52	2.45	-15%	-2%	3%
Grand Total	213	168	149	143	131	126	111	110	108	106	104	101	99	91	-57%	-9%	100%

Table C.2: PM₁₀ Emissions Inventory for Scotland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
1A1a	7.35	4.14	2.75	2.34	3.14	3.12	1.89	0.87	1.58	1.54	2.37	2.09	0.85	0.89	-88%	5%	8%
1A1b	0.89	1.02	1.00	0.62	0.39	0.29	0.22	0.21	0.21	0.20	0.21	0.21	0.11	0.12	-86%	9%	1%
1A1c	0.04	0.04	0.05	0.08	0.07	0.08	0.09	0.07	0.06	0.07	0.07	0.06	0.04	0.02	-45%	-49%	0%
1A2a	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-99%	-61%	0%
1A2fi	1.09	0.85	0.62	0.55	0.50	0.55	0.42	0.41	0.46	0.37	0.45	0.57	0.52	0.48	-56%	-8%	4%
1A2fii	0.89	0.91	0.92	0.91	0.90	0.88	0.85	0.80	0.80	0.74	0.69	0.66	0.60	0.52	-42%	-14%	4%
1A3ai(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4%	-8%	0%
1A3aii(i)	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-2%	-16%	0%
1A3bi	0.73	0.88	0.81	0.76	0.62	0.59	0.57	0.55	0.55	0.54	0.52	0.50	0.48	0.47	-36%	-3%	4%
1A3bii	0.45	0.69	0.73	0.73	0.59	0.59	0.53	0.51	0.48	0.44	0.40	0.38	0.34	0.31	-32%	-10%	3%
1A3biii	1.44	1.31	1.04	0.93	0.77	0.68	0.60	0.56	0.52	0.48	0.45	0.40	0.33	0.28	-81%	-17%	2%
1A3biv	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	-51%	-5%	0%
1A3bvi	0.64	0.67	0.71	0.72	0.72	0.72	0.74	0.76	0.77	0.77	0.79	0.80	0.80	0.79	22%	-2%	7%
1A3bvii	0.35	0.36	0.38	0.39	0.39	0.39	0.40	0.41	0.42	0.42	0.43	0.44	0.43	0.43	23%	-2%	4%
1A3c	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.06	0.06	0.07	0.07	0.07	0.06	0.07	0%	3%	1%
1A3dii	0.71	0.65	0.60	0.62	0.56	0.51	0.54	0.47	0.46	0.46	0.40	0.25	0.24	0.23	-68%	-6%	2%
1A4ai	0.25	0.16	0.11	0.10	0.08	0.11	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07	-72%	13%	1%
1A4bi	7.31	3.57	3.67	3.96	2.95	2.59	2.11	2.01	1.88	1.77	2.30	2.55	2.85	2.81	-61%	-1%	24%
1A4bii	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-71%	1%	0%
1A4ci	0.15	0.16	0.14	0.12	0.12	0.11	0.11	0.11	0.13	0.14	0.16	0.17	0.23	0.22	48%	-7%	2%
1A4cii	1.54	1.54	1.54	1.51	1.46	1.41	1.35	1.26	1.10	1.03	0.87	0.74	0.63	0.58	-62%	-8%	5%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50%	-8%	0%
1A5b	0.13	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.11	0.10	0.09	-32%	-12%	1%
1B1b	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1B2c	0.05	0.04	0.04	0.07	0.14	0.11	0.19	0.07	0.14	0.10	0.05	0.05	0.10	0.10	108%	-2%	1%
2A1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	0%	0%
2A4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2A6	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	-26%	6%	0%
2A7a	1.34	1.19	1.07	1.05	1.02	1.04	1.02	1.00	1.03	0.98	0.97	0.97	0.89	0.77	-42%	-13%	7%
2A7b	0.14	0.09	0.08	0.12	0.07	0.08	0.07	0.09	0.07	0.08	0.06	0.06	0.05	0.04	-71%	-18%	0%
2A7c	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-29%	1%	0%
2A7d	0.34	0.33	0.28	0.27	0.27	0.26	0.26	0.26	0.27	0.28	0.25	0.26	0.24	0.19	-45%	-22%	2%
2B5a	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-99%	-15%	0%
2C1	0.28	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	-3%	0%
2C3	0.10	0.09	0.02	0.02	0.02	0.01	0.01	0.01	0.04	0.04	0.04	0.03	0.04	0.03	-70%	-15%	0%
2C5a	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-90%	-3%	0%
2C5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-47%	8%	0%
2C5d	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	-96%	0%
2C5e	0.39	0.26	0.13	0.09	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.01	-96%	-52%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
2D3	0.14	0.13	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.07	0.07	0.05	0.05	0.05	-67%	0%	0%
2G	0.19	0.19	0.17	0.16	0.16	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.15	0.15	-18%	1%	1%
3A2	0.46	0.32	0.32	0.31	0.28	0.27	0.27	0.26	0.25	0.26	0.29	0.28	0.24	0.21	-55%	-12%	2%
3A3	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	-25%	-13%	0%
3C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0%	-9%	0%
4B1a	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-20%	-2%	0%
4B1b	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	-10%	-2%	1%
4B8	0.11	0.14	0.17	0.14	0.16	0.19	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.10	-12%	-9%	1%
4B9a	0.07	0.06	0.05	0.04	0.04	0.05	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04	-40%	4%	0%
4B9b	0.47	0.49	0.48	0.40	0.53	0.60	0.57	0.57	0.64	0.56	0.53	0.56	0.55	0.52	10%	-6%	4%
4B9d	0.22	0.24	0.20	0.16	0.20	0.23	0.22	0.18	0.20	0.19	0.18	0.18	0.17	0.17	-21%	-1%	1%
4F	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
4G	0.26	0.28	0.30	0.30	0.34	0.26	0.32	0.31	0.31	0.29	0.29	0.27	0.32	0.29	15%	-8%	2%
6Ca	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-64%	0%	0%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112%	0%	0%
6Cc	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	0.04	0.04	0.04	0.04	0.04	0.79	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0%	0%	0%
6Ce	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	-5%	0%	3%
7A	0.31	0.31	0.28	0.30	0.29	0.29	0.29	0.34	0.28	0.28	0.27	0.26	0.25	0.25	-20%	-3%	2%
Grand Total	30	22	20	19	18	18	15	13	14	13	14	14	12	12	-60%	-5%	100%

Table C.3: PM₁₀ Emissions Inventory for Wales 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
1A1a	2.71	1.46	0.96	0.70	1.41	1.14	0.60	0.72	0.69	0.79	0.89	0.74	0.85	0.49	-82%	-43%	5%
1A1b	0.59	0.68	0.66	0.52	0.50	0.49	0.43	0.50	0.32	0.29	0.44	0.41	0.24	0.41	-31%	71%	4%
1A1c	0.04	0.02	0.03	0.03	0.05	0.06	0.00	0.01	0.00	0.00	0.00	0.05	0.05	0.05	15%	2%	0%
1A2a	0.07	0.15	0.11	0.18	0.15	0.17	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	-55%	5%	0%
1A2fi	1.04	0.74	0.41	0.45	0.48	0.47	0.45	0.39	0.38	0.26	0.25	0.22	0.23	0.25	-76%	11%	3%
1A2fii	0.65	0.67	0.67	0.67	0.66	0.64	0.62	0.59	0.58	0.55	0.52	0.50	0.45	0.39	-41%	-14%	4%
1A3ai(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20%	-18%	0%
1A3aii(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10%	-29%	0%
1A3bi	0.45	0.59	0.59	0.58	0.48	0.46	0.45	0.43	0.42	0.40	0.39	0.38	0.36	0.35	-24%	-4%	4%
1A3bii	0.29	0.46	0.51	0.51	0.43	0.43	0.40	0.38	0.36	0.34	0.31	0.29	0.27	0.24	-16%	-10%	3%
1A3biii	0.76	0.67	0.55	0.47	0.39	0.33	0.30	0.26	0.25	0.22	0.21	0.18	0.15	0.12	-84%	-19%	1%
1A3biv	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-56%	-5%	0%
1A3bvi	0.40	0.41	0.44	0.44	0.44	0.44	0.46	0.46	0.47	0.47	0.49	0.49	0.49	0.48	21%	-2%	5%
1A3bvii	0.21	0.22	0.23	0.23	0.23	0.23	0.24	0.25	0.25	0.25	0.26	0.26	0.26	0.25	20%	-3%	3%
1A3c	0.05	0.05	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	11%	-6%	1%
1A3dii	0.32	0.29	0.27	0.27	0.25	0.22	0.23	0.23	0.25	0.25	0.23	0.14	0.14	0.14	-56%	2%	2%
1A4ai	0.22	0.12	0.08	0.07	0.06	0.08	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.06	-74%	27%	1%
1A4bi	4.80	3.03	3.28	3.63	2.55	2.25	1.74	1.63	1.63	1.56	1.88	2.22	2.47	2.44	-49%	-1%	26%
1A4bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-70%	1%	0%
1A4ci	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	35%	10%	0%
1A4cii	1.05	1.05	1.05	1.03	1.00	0.96	0.92	0.86	0.75	0.70	0.59	0.50	0.43	0.39	-63%	-8%	4%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-30%	0%	0%
1A5b	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.03	0.02	-45%	-9%	0%
1B1b	0.15	0.17	0.17	0.17	0.21	0.12	0.06	0.10	0.05	0.05	0.08	0.04	0.03	0.05	-64%	78%	1%
1B2c	0.01	0.01	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.05	0.05	0.06	788%	9%	1%
2A1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	0%	0%
2A4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2A6	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-34%	5%	0%
2A7a	0.82	0.73	0.66	0.64	0.63	0.64	0.63	0.61	0.63	0.60	0.59	0.59	0.54	0.45	-45%	-15%	5%
2A7b	0.07	0.04	0.04	0.06	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.03	0.02	0.02	-74%	-18%	0%
2A7c	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	-36%	0%	0%
2A7d	0.16	0.15	0.11	0.10	0.10	0.10	0.09	0.10	0.10	0.07	0.06	0.07	0.03	0.01	-94%	-74%	0%
2B5a	0.08	0.04	0.02	0.03	0.02	0.04	0.02	0.02	0.08	0.05	0.05	0.04	0.04	0.02	-80%	-62%	0%
2C1	2.09	2.25	2.19	1.95	2.41	1.44	0.85	1.55	1.71	1.48	1.67	2.23	1.41	1.04	-50%	-27%	11%
2C3	0.24	0.21	0.07	0.07	0.07	0.07	0.05	0.05	0.05	0.04	0.03	0.03	0.03	0.02	-92%	-35%	0%
2C5a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-68%	-3%	0%
2C5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-87%	-2%	0%
2C5d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-99%	-96%	0%
2C5e	0.18	0.12	0.06	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	-96%	-52%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
2D3	0.14	0.13	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.05	0.05	0.05	-67%	0%	0%
2G	0.09	0.09	0.08	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	-26%	0%	1%
3A2	0.38	0.26	0.27	0.26	0.24	0.23	0.23	0.22	0.22	0.21	0.24	0.23	0.19	0.16	-57%	-15%	2%
3A3	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.03	0.03	-25%	-13%	0%
3C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3%	-9%	0%
4B1a	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-29%	-3%	0%
4B1b	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	-13%	-1%	0%
4B8	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-78%	7%	0%
4B9a	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	-34%	9%	0%
4B9b	0.23	0.22	0.33	0.39	0.39	0.38	0.22	0.41	0.35	0.28	0.24	0.29	0.28	0.28	20%	-1%	3%
4B9d	0.11	0.11	0.14	0.16	0.15	0.14	0.08	0.13	0.11	0.09	0.08	0.09	0.09	0.09	-13%	3%	1%
4F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
4G	0.24	0.24	0.21	0.24	0.26	0.20	0.25	0.24	0.25	0.23	0.24	0.22	0.29	0.26	5%	-10%	3%
6Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-64%	0%	0%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-89%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.01	0.01	0.01	0.01	0.01	0.22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0%	0%	0%
6Ce	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	-3%	0%	2%
7A	0.17	0.18	0.16	0.17	0.16	0.17	0.17	0.20	0.16	0.16	0.16	0.15	0.15	0.14	-18%	-3%	2%
Grand Total	19	16	15	15	14	13	10	11	11	10	11	11	10	9	-52%	-9%	100%

Table C.4: PM₁₀ Emissions Inventory for Northern Ireland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
1A1a	2.74	1.47	0.96	0.57	0.76	1.03	0.40	0.42	0.32	0.30	0.30	0.26	0.23	0.12	-96%	-47%	2%
1A1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2fi	0.59	0.53	0.41	0.34	0.35	0.28	0.19	0.17	0.21	0.27	0.28	0.29	0.28	0.18	-69%	-34%	3%
1A2fii	0.34	0.35	0.35	0.35	0.35	0.34	0.33	0.31	0.31	0.30	0.29	0.28	0.25	0.22	-37%	-14%	4%
1A3ai(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194%	-27%	0%
1A3aii(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-29%	-10%	0%
1A3bi	0.32	0.63	0.62	0.59	0.50	0.49	0.45	0.44	0.43	0.42	0.40	0.38	0.36	0.36	11%	0%	6%
1A3bii	0.18	0.17	0.14	0.13	0.11	0.10	0.12	0.11	0.10	0.09	0.09	0.08	0.08	0.06	-66%	-25%	1%
1A3biii	0.32	0.32	0.26	0.24	0.21	0.19	0.19	0.21	0.17	0.16	0.15	0.13	0.11	0.09	-72%	-15%	2%
1A3biv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-53%	-6%	0%
1A3bvi	0.21	0.23	0.25	0.27	0.28	0.29	0.30	0.32	0.32	0.32	0.33	0.34	0.33	0.34	63%	1%	6%
1A3bvii	0.11	0.13	0.14	0.15	0.15	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.18	0.18	64%	1%	3%
1A3c	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1%	-11%	0%
1A3dii	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.06	0.06	0.05	-52%	-6%	1%
1A4ai	0.21	0.11	0.07	0.06	0.04	0.06	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.04	-79%	20%	1%
1A4bi	7.46	4.59	3.86	3.52	3.19	2.78	2.52	2.14	1.78	1.54	1.45	1.39	1.51	1.47	-80%	-3%	27%
1A4bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-68%	1%	0%
1A4ci	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.02	-4%	-20%	0%
1A4cii	0.95	0.95	0.95	0.93	0.91	0.87	0.83	0.78	0.68	0.65	0.55	0.46	0.40	0.37	-62%	-8%	7%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-24%	-8%	0%
1A5b	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-32%	-14%	0%
1B1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2A1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	0%	0%
2A4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2A6	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-15%	6%	0%
2A7a	0.35	0.31	0.28	0.28	0.27	0.28	0.27	0.26	0.27	0.26	0.26	0.26	0.23	0.19	-47%	-17%	3%
2A7b	0.03	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.01	-66%	-18%	0%
2A7c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18%	0%	0%
2A7d	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.06	-43%	-22%	1%
2B5a	0.04	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	-15%	0%
2C1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2C3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-56%	-21%	0%
2C5a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-79%	-3%	0%
2C5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-50%	8%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
2C5d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	-96%	0%
2C5e	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-96%	-52%	0%
2D3	0.11	0.10	0.04	0.05	0.04	0.05	0.05	0.06	0.06	0.05	0.05	0.04	0.04	0.04	-67%	0%	1%
2G	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	-6%	0%	1%
3A2	0.19	0.13	0.13	0.13	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.10	0.08	-56%	-14%	1%
3A3	0.02	0.01	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.01	-25%	-13%	0%
3C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9%	-9%	0%
4B1a	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	7%	-1%	1%
4B1b	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.06	0.05	0.05	-1%	-2%	1%
4B8	0.17	0.16	0.16	0.12	0.12	0.12	0.10	0.11	0.11	0.10	0.10	0.10	0.10	0.11	-37%	7%	2%
4B9a	0.05	0.07	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0%	6%	1%
4B9b	0.35	0.51	0.53	0.55	0.57	0.54	0.63	0.73	0.72	0.68	0.71	0.68	0.68	0.65	83%	-4%	12%
4B9d	0.16	0.25	0.22	0.23	0.22	0.20	0.24	0.23	0.22	0.23	0.25	0.21	0.21	0.21	31%	0%	4%
4F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
4G	0.22	0.23	0.24	0.23	0.25	0.19	0.23	0.22	0.22	0.20	0.20	0.18	0.24	0.21	-6%	-11%	4%
6Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-61%	0%	0%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0%	0%	0%
6Ce	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	4%	0%	2%
7A	0.10	0.10	0.09	0.10	0.10	0.10	0.10	0.11	0.09	0.09	0.09	0.09	0.09	0.08	-13%	-2%	2%
Grand Total	16	12	10	9	9	9	8	8	7	7	6	6	6	6	-65%	-8%	100%

Table C.5: Unallocated PM₁₀ Emissions in the UK, 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of UK Total (2009)
1A1c	0.13	0.19	0.20	0.18	0.16	0.20	0.21	0.23	0.22	0.21	0.19	0.14	0.14	0.15	13%	6%	14%
1B2c	1.63	1.39	1.34	1.20	0.94	1.01	0.71	0.79	0.82	0.64	0.82	0.82	0.65	0.88	-46%	34%	86%
Grand Total	1.8	1.6	1.6	1.4	1.2	1.3	1.0	1.0	1.0	0.9	1.0	1.0	0.8	1.0	-44%	29%	100%

APPENDIX D: DEVOLVED ADMINISTRATION CO INVENTORIES, 1990-2009

Table D.1 Carbon Monoxide Emissions Inventory for England 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
1A1a	91.46	85.50	49.08	43.86	53.16	52.73	52.27	58.23	56.69	57.90	61.88	64.32	60.65	52.29	-43%	-14%	3%
1A1b	4.84	5.45	5.37	4.94	3.88	2.46	2.83	3.27	3.02	6.91	3.59	2.92	2.12	3.74	-23%	77%	0%
1A1c	2.33	1.53	1.84	1.61	2.56	2.86	2.33	2.47	2.30	2.47	1.48	1.52	2.08	1.42	-39%	-32%	0%
1A2a	36.94	11.96	11.77	10.95	7.33	8.88	9.74	7.89	7.84	7.60	7.89	7.34	5.46	3.98	-89%	-27%	0%
1A2fi	121.07	160.61	144.28	131.53	113.42	106.41	104.57	107.08	106.18	82.61	79.90	79.57	86.68	78.51	-35%	-9%	4%
1A2fii	169.57	173.46	173.61	173.62	173.59	173.63	173.63	173.54	184.42	181.91	188.77	194.92	188.01	163.88	-3%	-13%	9%
1A3ai(i)	7.01	6.84	7.69	7.74	7.70	6.85	6.67	6.61	6.78	7.04	6.95	6.80	6.47	6.22	-11%	-4%	0%
1A3aii(i)	19.72	22.98	26.03	37.92	44.04	48.59	41.84	37.98	43.98	46.05	41.15	27.25	24.48	18.40	-7%	-25%	1%
1A3bi	4567	3951	3635	3408	2990	2708	2419	2144	1911	1656	1461	1301	1178	792	-83%	-33%	44%
1A3bii	627.09	506.13	397.45	324.21	255.33	208.08	167.22	138.62	116.20	95.22	87.45	76.95	66.78	58.43	-91%	-13%	3%
1A3biii	62.09	59.91	55.61	53.39	51.70	48.97	47.60	46.66	46.75	45.18	43.79	39.95	33.68	27.75	-55%	-18%	2%
1A3biv	101.63	69.28	78.61	86.31	81.77	81.70	82.16	87.23	76.41	74.77	66.52	64.32	54.40	51.25	-50%	-6%	3%
1A3c	8.74	8.68	9.84	9.67	10.51	10.79	9.63	9.33	9.67	10.29	10.36	10.23	10.80	11.28	29%	4%	1%
1A3dii	2.40	2.55	2.64	2.60	2.42	2.38	2.50	2.51	2.50	2.62	2.54	2.49	2.43	2.28	-5%	-6%	0%
1A4ai	7.79	5.81	5.28	5.18	5.01	5.39	4.89	4.79	5.04	5.08	4.83	4.61	4.67	4.63	-41%	-1%	0%
1A4bi	584.24	436.41	388.77	405.12	336.11	339.45	266.57	231.72	220.39	176.41	164.08	171.93	181.41	180.42	-69%	-1%	10%
1A4bii	60.28	63.50	58.91	57.46	56.27	55.98	55.81	55.62	55.39	55.56	56.10	56.74	57.39	58.05	-4%	1%	3%
1A4ci	14.23	14.13	14.15	14.35	14.23	14.28	14.19	14.19	14.06	15.42	17.11	16.18	25.90	26.20	84%	1%	1%
1A4cii	14.50	14.50	14.52	14.24	13.84	13.61	13.57	13.46	12.58	12.74	11.84	11.37	11.21	11.48	-21%	2%	1%
1A4ciii	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-23%	-9%	0%
1A5b	12.08	9.14	7.92	7.88	7.45	7.48	7.86	8.15	7.98	7.39	7.63	7.79	7.51	6.69	-45%	-11%	0%
1B1b	21.96	11.89	11.79	9.23	9.31	5.18	3.62	5.88	3.30	3.19	3.58	3.59	3.35	3.13	-86%	-6%	0%
1B2ai	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1B2c	0.39	0.41	0.36	0.41	0.43	0.31	0.43	0.32	0.55	0.57	0.53	0.41	0.41	0.86	124%	110%	0%
2A4	5.54	2.84	2.64	2.49	3.52	4.98	5.01	6.38	6.25	3.27	4.00	4.58	4.88	3.89	-30%	-20%	0%
2A7d	5.31	3.64	3.35	1.56	2.75	2.54	2.53	2.67	2.61	4.28	4.67	3.44	4.43	1.66	-69%	-63%	0%
2B5a	81.85	88.26	68.73	65.65	82.87	81.92	39.40	37.25	28.75	24.90	25.82	28.76	23.87	12.93	-84%	-46%	1%
2C1	241.90	264.92	250.22	248.01	177.94	224.10	217.75	205.48	205.07	211.38	209.36	204.45	199.82	160.73	-34%	-20%	9%
2C3	9.64	7.93	9.45	12.47	13.25	13.58	13.42	15.82	16.96	17.60	17.95	17.41	17.58	12.48	29%	-29%	1%
2C5a	4.35	2.27	3.89	3.28	0.78	0.53	0.63	0.30	0.45	0.31	0.28	0.14	0.14	0.11	-98%	-22%	0%
2C5b	0.83	0.81	0.88	0.93	0.94	1.01	0.74	1.00	0.44	0.32	0.68	0.49	0.53	0.53	-36%	1%	0%
2C5d	39.68	43.07	40.12	66.10	73.18	78.22	81.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2C5e	0.18	0.16	0.16	0.00	0.01	0.01	0.22	0.10	0.10	0.13	0.88	0.12	0.30	0.99	466%	228%	0%
4F	244.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Ca	0.43	0.33	0.29	0.30	0.31	0.31	0.32	0.28	0.23	0.19	0.14	0.15	0.16	0.16	-62%	0%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
6Cb	1.08	1.17	2.55	2.53	2.50	2.53	2.54	2.56	2.57	2.58	2.57	2.50	2.20	2.20	104%	0%	0%
6Cc	1.49	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	2.82	2.82	2.82	2.82	2.82	18.77	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.81	0%	0%	0%
6Ce	13.21	13.21	13.22	13.23	13.24	13.26	13.26	13.27	13.27	13.27	13.28	13.28	13.28	13.29	1%	0%	1%
7A	12.46	12.37	11.16	11.73	11.29	11.61	11.69	12.15	11.10	10.88	10.91	10.66	10.20	10.20	-18%	0%	1%
Grand Total	7203	6066	5510	5241	4626	4357	3880	3460	3184	2844	2623	2441	2294	1785	-75%	-22%	100%

Table D.2: Carbon Monoxide Emissions Inventory for Scotland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
1A1a	12.37	11.81	6.87	6.40	8.55	8.09	8.06	7.37	7.63	7.40	9.69	8.93	12.28	11.95	-3%	-3%	6%
1A1b	1.10	1.24	1.22	1.13	0.89	0.83	0.68	0.67	0.99	1.00	0.89	1.04	1.03	0.73	-34%	-30%	0%
1A1c	1.18	1.57	1.90	1.68	1.58	1.72	1.63	1.61	1.50	1.54	1.34	1.41	1.20	1.01	-14%	-15%	1%
1A2a	8.69	0.69	0.37	0.42	0.15	0.22	0.18	0.18	0.19	0.18	0.21	0.20	0.22	0.12	-99%	-46%	0%
1A2fi	10.33	14.68	13.14	11.89	10.43	10.01	12.21	11.86	12.58	10.95	10.35	10.88	12.22	9.78	-5%	-20%	5%
1A2fii	15.77	16.14	16.15	16.15	16.15	16.15	16.15	16.14	17.15	16.79	17.28	17.84	17.21	15.00	-5%	-13%	8%
1A3ai(i)	0.24	0.23	0.27	0.29	0.29	0.29	0.29	0.28	0.28	0.29	0.30	0.30	0.27	0.24	-1%	-11%	0%
1A3aii(i)	3.57	3.40	2.97	4.07	5.05	5.19	4.10	4.60	5.59	6.13	5.68	3.62	3.46	2.53	-29%	-27%	1%
1A3bi	401.00	324.53	274.78	252.94	219.79	195.84	174.85	155.29	139.58	122.42	111.68	101.13	93.71	60.67	-85%	-35%	33%
1A3bii	55.05	44.07	36.05	29.34	22.41	17.91	14.49	11.99	10.09	8.27	7.61	6.75	5.95	5.20	-91%	-13%	3%
1A3biii	6.75	6.40	5.87	5.57	5.33	4.98	4.80	4.82	4.79	4.70	4.65	4.32	3.72	3.09	-54%	-17%	2%
1A3biv	5.81	4.27	4.67	5.21	5.11	5.12	5.53	6.02	5.44	5.09	4.58	4.47	3.99	3.80	-35%	-5%	2%
1A3c	1.08	1.07	1.20	1.17	1.27	1.30	1.13	1.10	1.14	1.22	1.22	1.20	1.21	1.32	23%	10%	1%
1A3dii	0.88	0.94	0.90	0.95	0.87	0.80	0.84	0.75	0.73	0.73	0.64	0.64	0.61	0.57	-35%	-6%	0%
1A4ai	0.72	0.49	0.47	0.47	0.45	0.50	0.45	0.46	0.49	0.50	0.47	0.46	0.47	0.47	-35%	0%	0%
1A4bi	173.64	107.67	95.03	96.71	82.15	79.46	65.89	57.17	51.45	41.68	43.61	45.01	49.57	48.75	-72%	-2%	26%
1A4bii	6.42	6.71	6.15	5.97	5.81	5.73	5.68	5.64	5.62	5.61	5.65	5.71	5.77	5.82	-9%	1%	3%
1A4ci	0.85	0.90	0.83	0.71	0.80	0.75	0.74	0.73	0.86	0.92	1.06	1.11	1.54	1.46	71%	-5%	1%
1A4cii	4.38	4.38	4.38	4.30	4.18	4.11	4.10	4.06	3.80	3.92	3.64	3.50	3.42	3.51	-20%	2%	2%
1A4ciii	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	-48%	-8%	0%
1A5b	1.29	1.00	0.85	0.83	0.78	0.79	0.83	0.86	0.85	0.79	0.82	0.83	0.81	0.73	-44%	-10%	0%
1B1b	4.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1B2ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2c	0.98	1.04	0.90	1.09	1.01	1.66	1.08	0.77	0.79	0.89	0.74	0.88	0.77	0.81	-17%	6%	0%
2A4	0.12	0.06	0.06	0.05	0.07	0.11	0.11	0.13	0.13	0.07	0.08	0.10	0.10	0.08	-30%	-20%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B5a	0.03	0.04	0.04	0.06	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.03	0.02	0.02	-42%	21%	0%
2C1	44.31	0.06	0.07	0.03	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	-100%	20%	0%
2C3	3.83	3.15	3.45	3.43	3.43	3.33	3.38	3.38	3.40	3.38	4.10	4.22	4.39	4.39	15%	0%	2%
2C5a	0.18	0.09	0.16	0.13	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	-98%	-22%	0%
2C5b	0.04	0.03	0.04	0.04	0.04	0.04	0.03	0.04	0.02	0.01	0.03	0.02	0.02	0.02	-36%	1%	0%
2C5d	1.71	1.85	1.73	2.84	3.15	3.37	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2C5e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
4F	18.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Ca	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.02	0.02	0.02	-64%	0%	0%
6Cb	0.10	0.11	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.25	0.22	0.22	112%	0%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
6Cc	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	0.43	0.43	0.43	0.43	0.43	4.55	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0%	0%	0%
6Ce	1.41	1.40	1.38	1.37	1.37	1.36	1.35	1.35	1.34	1.34	1.34	1.34	1.33	1.33	-5%	0%	1%
7A	1.33	1.31	1.16	1.22	1.17	1.19	1.19	1.23	1.13	1.10	1.10	1.07	1.02	1.02	-23%	0%	1%
Grand Total	788	562	484	457	403	376	334	299	278	248	240	228	227	185	-77%	-18%	100%

Table D.3: Carbon Monoxide Emissions Inventory for Wales 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
1A1a	4.68	4.38	2.53	2.09	3.66	4.54	3.67	3.76	5.18	4.51	5.25	4.17	5.44	4.13	-12%	-24%	2%
1A1b	1.15	1.30	1.28	1.18	0.92	0.84	0.82	1.03	1.27	1.32	1.04	0.69	0.59	1.06	-8%	80%	0%
1A1c	0.41	0.49	0.63	0.60	0.61	0.53	0.41	0.40	0.41	0.40	0.51	0.54	0.49	0.47	14%	-4%	0%
1A2a	21.99	9.68	11.35	11.70	7.10	6.98	5.11	6.73	5.98	5.57	6.22	5.30	4.21	2.99	-86%	-29%	1%
1A2fi	7.86	8.72	7.98	7.23	7.77	7.77	7.73	6.28	6.40	4.43	4.52	4.32	4.15	4.15	-47%	0%	2%
1A2fii	11.56	11.82	11.83	11.83	11.83	11.83	11.83	11.83	12.57	12.46	12.99	13.42	12.94	11.28	-2%	-13%	5%
1A3ai(j)	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.03	0.02	2%	-25%	0%
1A3aii(i)	1.37	0.91	1.20	1.87	2.21	2.49	1.50	1.14	1.56	2.64	2.42	1.85	1.68	1.10	-20%	-35%	1%
1A3bi	254.22	221.33	197.01	184.34	165.14	148.75	133.41	117.25	103.05	87.86	78.12	69.96	63.41	41.68	-84%	-34%	19%
1A3bii	34.66	28.22	22.46	18.56	14.71	12.11	10.12	8.53	7.24	5.96	5.47	4.83	4.31	3.79	-89%	-12%	2%
1A3biii	3.53	3.32	3.18	2.94	2.77	2.56	2.45	2.33	2.32	2.25	2.16	2.02	1.75	1.45	-59%	-17%	1%
1A3biv	4.85	3.52	3.93	4.33	4.30	4.25	4.39	4.57	4.10	4.06	3.64	3.51	3.12	2.94	-39%	-6%	1%
1A3c	0.65	0.62	0.74	0.74	0.81	0.84	0.78	0.77	0.81	0.86	0.87	0.86	0.91	0.89	37%	-3%	0%
1A3dii	0.40	0.42	0.40	0.41	0.39	0.36	0.36	0.36	0.40	0.40	0.36	0.35	0.35	0.36	-10%	3%	0%
1A4ai	0.57	0.37	0.28	0.27	0.27	0.30	0.25	0.25	0.27	0.28	0.27	0.25	0.26	0.28	-51%	8%	0%
1A4bi	100.99	82.18	72.23	75.95	61.40	62.57	47.15	40.19	38.21	29.48	30.05	33.33	36.17	36.68	-64%	1%	17%
1A4bii	3.62	3.79	3.50	3.40	3.33	3.29	3.29	3.28	3.26	3.26	3.28	3.31	3.34	3.36	-7%	1%	2%
1A4ci	0.11	0.11	0.13	0.12	0.12	0.10	0.12	0.13	0.13	0.14	0.13	0.12	0.23	0.28	161%	22%	0%
1A4cii	2.99	2.99	3.00	2.94	2.86	2.81	2.80	2.78	2.60	2.66	2.46	2.37	2.32	2.37	-21%	2%	1%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-27%	0%	0%
1A5b	0.57	0.42	0.33	0.32	0.30	0.30	0.31	0.33	0.32	0.28	0.29	0.28	0.27	0.24	-59%	-12%	0%
1B1b	12.26	19.01	18.96	14.71	15.11	8.50	3.49	4.86	3.31	2.94	6.43	6.93	5.05	4.78	-61%	-5%	2%
1B2ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44%	-6%	0%
2A4	0.37	0.19	0.18	0.17	0.24	0.34	0.34	0.43	0.42	0.22	0.27	0.31	0.33	0.26	-30%	-20%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B5a	0.25	0.30	0.38	0.34	0.36	0.28	0.37	0.32	0.24	0.28	0.39	0.36	0.25	0.26	2%	2%	0%
2C1	156.62	190.34	198.31	192.92	155.37	131.04	65.90	71.27	94.70	98.76	125.34	108.83	88.41	76.41	-51%	-14%	36%
2C3	8.33	6.85	7.69	5.20	8.45	11.70	11.84	8.91	7.97	8.18	14.07	14.36	12.02	11.12	33%	-7%	5%
2C5a	0.04	0.04	0.05	0.05	0.05	0.03	0.04	0.02	0.03	0.02	0.02	0.01	0.01	0.01	-83%	-22%	0%
2C5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2C5d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2C5e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
4F	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Ca	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	-64%	0%	0%
6Cb	0.06	0.06	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.13	0.13	116%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.06	0.06	0.06	0.06	0.06	1.22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-1%	0%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
6Ce	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.77	0.77	0.77	-3%	0%	0%
7A	0.75	0.74	0.66	0.69	0.67	0.68	0.69	0.72	0.65	0.64	0.64	0.62	0.59	0.59	-21%	0%	0%
Grand Total	638	603	571	546	472	428	320	300	304	281	308	284	254	214	-66%	-16%	100%

Table D.4: Carbon Monoxide Emissions Inventory for Northern Ireland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
1A1a	4.06	3.78	2.16	1.36	1.29	1.45	1.17	1.13	2.06	3.36	2.87	2.72	2.62	2.45	-40%	-6%	3%
1A1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2fi	4.05	4.97	4.35	4.10	2.57	2.00	1.94	1.86	1.90	1.67	2.32	2.64	2.63	1.65	-59%	-37%	2%
1A2fii	6.07	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.60	6.75	7.26	7.50	7.23	6.30	4%	-13%	9%
1A3ai(i)	0.02	0.02	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.03	72%	-24%	0%
1A3aii(i)	0.62	0.88	1.02	1.03	1.21	1.09	0.85	0.83	0.98	1.08	1.04	0.69	0.63	0.45	-27%	-28%	1%
1A3bi	145.83	104.30	78.21	70.69	61.75	55.72	46.62	42.91	40.46	36.49	33.83	31.92	29.91	20.16	-86%	-33%	29%
1A3bii	0.96	1.13	1.08	1.08	1.01	1.00	1.29	1.15	0.97	0.86	0.87	0.80	0.87	0.67	-31%	-23%	1%
1A3biii	1.44	1.50	1.42	1.42	1.43	1.40	1.56	1.84	1.62	1.60	1.54	1.42	1.22	1.04	-28%	-15%	1%
1A3biv	2.01	1.38	1.83	1.99	1.85	1.85	1.98	2.60	2.22	2.24	1.83	1.82	1.49	1.40	-30%	-6%	2%
1A3c	0.25	0.27	0.28	0.26	0.27	0.26	0.22	0.22	0.24	0.27	0.27	0.32	0.36	0.32	30%	-9%	0%
1A3dii	0.14	0.15	0.14	0.15	0.14	0.14	0.15	0.15	0.15	0.16	0.16	0.15	0.15	0.14	-2%	-6%	0%
1A4ai	0.45	0.21	0.15	0.14	0.12	0.16	0.11	0.11	0.11	0.11	0.12	0.13	0.15	0.19	-59%	23%	0%
1A4bi	167.81	116.64	96.79	87.84	79.13	67.45	61.66	50.90	39.91	32.24	29.77	28.07	30.98	29.73	-82%	-4%	42%
1A4bii	2.02	2.17	2.03	1.98	1.93	1.91	1.91	1.90	1.89	1.90	1.92	1.95	1.98	2.00	-1%	1%	3%
1A4ci	0.06	0.07	0.06	0.04	0.04	0.04	0.06	0.07	0.09	0.08	0.09	0.09	0.16	0.14	126%	-12%	0%
1A4cii	2.71	2.71	2.71	2.66	2.59	2.54	2.54	2.52	2.35	2.47	2.29	2.20	2.15	2.20	-19%	2%	3%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21%	-8%	0%
1A5b	0.30	0.25	0.21	0.21	0.20	0.20	0.20	0.21	0.21	0.20	0.20	0.21	0.20	0.18	-42%	-13%	0%
1B1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2A4	0.03	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	-30%	-20%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B5a	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	-42%	21%	0%
2C1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2C3	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28%	-19%	0%
2C5a	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	-94%	-22%	0%
2C5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-36%	1%	0%
2C5d	0.18	0.19	0.18	0.30	0.33	0.35	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2C5e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
4F	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Ca	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	-61%	0%	0%
6Cb	0.03	0.04	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.08	132%	0%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0%	0%	0%
6Ce	0.44	0.45	0.46	0.46	0.45	0.45	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	4%	0%	1%
7A	0.42	0.42	0.38	0.40	0.39	0.40	0.40	0.42	0.38	0.37	0.37	0.37	0.35	0.35	-15%	0%	1%
Grand Total	341	248	200	183	163	145	130	116	103	93	87	84	84	70	-79%	-16%	100%

Table D.5: Unallocated Carbon Monoxide Emissions in the UK, 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of UK Total (2009)
1A1c	8.97	12.75	15.86	16.12	15.36	16.09	16.40	15.94	15.87	15.01	13.43	13.60	13.13	12.88	44%	-2%	58%
1B2ai	5.50	7.14	2.96	1.03	0.70	0.51	0.66	0.50	0.46	0.50	0.21	0.19	0.68	1.18	-79%	72%	5%
1B2c	14.62	15.56	13.45	11.47	10.86	10.53	10.31	9.11	9.10	10.43	9.14	9.78	7.72	8.25	-44%	7%	37%
Grand Total	29	35	32	29	27	27	27	26	25	26	23	24	22	22	-23%	4%	100%

APPENDIX E: DEVOLVED ADMINISTRATION NO_x INVENTORIES, 1990-2009

Table E.1 Nitrogen Oxides (as Nitrogen Dioxide) Emissions Inventory for England 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
1A1a	616.2	384.4	278.8	245.5	262.8	285.6	274.1	307.0	285.3	303.8	300.7	291.1	207.7	193.2	-69%	-7%	23%
1A1b	26.7	22.7	23.9	20.2	19.5	18.9	20.3	19.5	21.5	21.4	19.0	17.3	17.4	15.5	-42%	-11%	2%
1A1c	6.6	7.0	8.3	8.3	9.4	9.7	9.2	9.5	10.5	11.2	7.2	7.2	6.1	5.4	-19%	-13%	1%
1A2a	12.8	14.9	13.0	12.9	8.7	7.1	7.5	6.5	6.7	6.5	6.3	6.4	5.8	4.9	-61%	-15%	1%
1A2fi	205.5	175.2	145.9	133.4	133.6	128.0	124.2	124.2	124.9	123.5	114.9	110.8	104.7	89.1	-57%	-15%	11%
1A2fii	101.2	103.5	103.9	102.7	100.1	97.2	93.9	90.3	91.1	87.3	85.5	84.3	78.7	67.9	-33%	-14%	8%
1A3ai(i)	4.6	6.1	7.6	8.3	9.1	8.8	8.7	9.0	9.8	10.5	10.6	10.5	10.0	9.5	106%	-5%	1%
1A3aii(i)	0.8	0.8	1.0	1.1	1.2	1.2	1.2	1.2	1.3	1.5	1.4	1.3	1.2	1.1	30%	-12%	0%
1A3bi	533.6	422.0	359.0	336.1	305.1	274.9	251.3	226.0	207.2	189.7	171.6	155.7	143.1	103.4	-81%	-28%	12%
1A3bii	75.7	74.9	77.0	75.1	74.8	74.7	72.2	71.1	69.3	65.7	58.0	52.3	46.0	41.3	-45%	-10%	5%
1A3biii	283.4	271.3	263.8	260.0	251.3	243.8	235.7	228.6	226.3	216.6	211.0	200.5	178.9	154.2	-46%	-14%	19%
1A3biv	1.5	1.1	1.2	1.3	1.3	1.3	1.4	1.5	1.4	1.4	1.3	1.2	1.1	1.0	-31%	-4%	0%
1A3c	16.2	19.5	25.6	27.8	31.5	33.3	28.8	26.5	27.9	28.9	29.4	29.0	29.0	28.0	73%	-3%	3%
1A3dii	23.3	24.7	25.6	25.2	23.2	22.5	23.6	23.4	23.2	24.1	23.0	22.3	21.6	20.2	-13%	-6%	2%
1A4ai	30.4	30.8	28.6	29.1	25.6	26.4	21.9	22.0	22.9	22.5	20.4	20.2	19.6	16.3	-46%	-17%	2%
1A4bi	76.9	64.3	58.7	54.8	51.8	49.6	43.5	39.9	37.0	34.4	33.0	31.2	31.7	29.6	-62%	-6%	4%
1A4bii	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	15%	-1%	0%
1A4ci	0.9	1.1	0.8	0.8	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.8	-15%	-12%	0%
1A4cii	45.6	45.6	45.7	44.7	43.3	42.0	40.5	38.3	34.4	32.1	27.6	23.8	21.0	19.4	-58%	-7%	2%
1A4ciii	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	-29%	-9%	0%
1A5b	36.3	29.4	24.8	26.2	25.3	24.0	23.2	24.6	25.7	23.4	23.1	25.4	23.2	21.1	-42%	-9%	3%
1B1b	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	-76%	-52%	0%
1B2ai	0.6	9.9	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-99%	0%	0%
1B2c	0.2	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	16%	8%	0%
2B2	6.6	1.6	1.7	2.0	1.8	0.9	0.6	0.7	0.7	0.6	0.6	0.6	0.3	0.3	-96%	-17%	0%
2B5a	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.3	0.3	0.4	0.4	0.4	9%	-1%	0%
2C1	9.9	10.8	9.8	10.1	8.3	9.6	6.8	7.3	7.2	7.3	7.0	6.8	6.6	5.3	-47%	-20%	1%
2C3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	-51%	-28%	0%
4F	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-100%	0%	0%
6Ca	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	-62%	0%	0%
6Cb	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.3	0.4	0.3	0.2	0.2	-50%	0%	0%
6Cc	3.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-100%	0%	0%
6Cd	0.3	0.3	0.3	0.3	0.3	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-2%	-1%	0%
6Ce	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1%	0%	0%
7A	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2	-41%	0%	0%
Grand Total	2132	1728	1509	1430	1392	1364	1293	1281	1239	1217	1156	1102	958	831	-61%	-13%	100%

Table E.2 Nitrogen Oxides (as Nitrogen Dioxide) Emissions Inventory for Scotland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
1A1a	86.32	54.61	39.65	37.50	44.64	39.70	37.79	36.89	35.92	35.30	48.16	41.82	32.21	28.02	-68%	-13%	27%
1A1b	5.95	5.05	5.32	4.57	4.34	4.67	5.47	3.64	3.52	3.69	3.72	3.29	3.24	3.77	-37%	16%	4%
1A1c	3.35	4.07	5.11	5.39	5.29	5.03	4.53	4.61	4.19	4.31	3.77	3.84	2.39	2.47	-26%	3%	2%
1A2a	2.32	0.77	0.42	0.47	0.17	0.25	0.20	0.19	0.19	0.19	0.21	0.21	0.24	0.12	-95%	-49%	0%
1A2fi	18.01	15.14	13.45	12.33	12.83	13.24	10.89	10.24	10.91	11.27	11.33	11.43	11.67	9.69	-46%	-17%	9%
1A2fii	9.42	9.63	9.66	9.55	9.31	9.04	8.74	8.40	8.47	8.06	7.83	7.71	7.21	6.22	-34%	-14%	6%
1A3ai(i)	0.16	0.23	0.30	0.35	0.36	0.38	0.37	0.40	0.42	0.45	0.47	0.48	0.43	0.39	151%	-8%	0%
1A3aii(i)	0.37	0.33	0.42	0.47	0.48	0.50	0.50	0.51	0.53	0.58	0.54	0.53	0.48	0.43	16%	-11%	0%
1A3bi	52.73	38.84	30.53	28.13	25.41	22.85	21.12	19.16	17.80	16.50	15.40	14.11	13.11	9.42	-82%	-28%	9%
1A3bii	7.60	7.44	7.96	7.79	7.47	7.35	7.19	7.07	6.85	6.48	5.73	5.20	4.61	4.11	-46%	-11%	4%
1A3biii	31.00	29.01	27.87	27.25	26.04	25.02	24.07	23.98	23.48	22.85	22.69	21.98	20.01	17.45	-44%	-13%	17%
1A3biv	0.10	0.08	0.08	0.09	0.09	0.09	0.10	0.12	0.11	0.10	0.10	0.09	0.09	0.09	-14%	-3%	0%
1A3c	2.00	2.44	3.23	3.48	3.95	4.16	3.57	3.31	3.49	3.64	3.69	3.63	3.53	3.48	74%	-1%	3%
1A3dii	8.59	9.11	8.68	9.16	8.33	7.61	7.95	6.98	6.75	6.69	5.84	5.70	5.39	5.09	-41%	-6%	5%
1A4ai	3.15	2.79	2.71	2.83	2.42	2.56	2.10	2.12	2.25	2.24	2.04	2.01	1.97	1.64	-48%	-17%	2%
1A4bi	9.20	8.10	7.29	6.84	6.40	6.37	5.47	4.98	4.66	4.39	4.30	4.11	4.25	4.02	-56%	-5%	4%
1A4bii	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.07	9%	-1%	0%
1A4ci	0.18	0.23	0.14	0.17	0.07	0.08	0.07	0.07	0.08	0.08	0.08	0.08	0.11	0.08	-54%	-25%	0%
1A4cii	13.78	13.78	13.80	13.50	13.08	12.67	12.22	11.57	10.40	9.88	8.48	7.32	6.40	5.93	-57%	-7%	6%
1A4ciii	0.08	0.09	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	-52%	-8%	0%
1A5b	3.96	3.28	2.73	2.81	2.70	2.59	2.52	2.63	2.73	2.50	2.46	2.66	2.45	2.23	-44%	-9%	2%
1B1b	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1B2ai	0.00	0.00	0.00	0.43	0.52	0.60	0.56	0.58	0.43	0.55	0.45	0.01	0.17	0.00	0%	-97%	0%
1B2c	0.15	0.18	0.17	0.21	0.21	0.32	0.20	0.14	0.14	0.17	0.14	0.17	0.10	0.09	-38%	-11%	0%
2B2	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2B5a	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	9%	-1%	0%
2C1	1.92	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	20%	0%
2C3	0.15	0.12	0.05	0.05	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-95%	-6%	0%
4F	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Ca	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	-64%	0%	0%
6Cb	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	126%	0%	0%
6Cc	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	0.04	0.04	0.04	0.04	0.04	0.16	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0%	-1%	0%
6Ce	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-5%	0%	0%
7A	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.02	-44%	0%	0%
Grand Total	262	206	180	174	174	166	156	148	144	140	148	137	120	105	-60%	-13%	100%

Table E.3: Nitrogen Oxides (as Nitrogen Dioxide) Emissions Inventory for Wales 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
1A1a	42.08	26.12	18.74	13.87	23.93	31.45	26.06	26.99	28.80	25.97	33.07	20.45	31.54	24.63	-41%	-22%	30%
1A1b	5.87	4.98	5.25	4.95	4.33	4.20	4.39	3.45	4.82	5.70	5.62	5.75	4.74	4.55	-23%	-4%	6%
1A1c	1.98	4.14	4.54	4.34	4.24	3.56	2.15	1.76	1.51	1.72	1.98	2.14	2.13	2.30	16%	8%	3%
1A2a	6.67	11.86	11.60	13.41	7.51	6.29	4.60	5.75	4.83	4.59	4.90	4.26	4.05	3.11	-53%	-23%	4%
1A2fi	15.69	10.86	10.11	10.84	14.43	13.09	10.26	9.31	9.97	8.89	7.56	7.31	7.03	6.22	-60%	-11%	8%
1A2fii	6.90	7.06	7.08	7.00	6.82	6.62	6.40	6.15	6.21	5.98	5.88	5.80	5.42	4.68	-32%	-14%	6%
1A3ai(i)	0.02	0.03	0.04	0.05	0.06	0.05	0.05	0.07	0.06	0.05	0.06	0.06	0.05	0.04	114%	-22%	0%
1A3aii(i)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	117%	-18%	0%
1A3bi	33.49	26.64	22.00	20.58	18.96	17.15	15.91	14.37	13.25	12.00	11.01	10.08	9.32	6.80	-80%	-27%	8%
1A3bii	4.94	4.91	5.08	4.99	4.94	4.89	4.88	4.85	4.75	4.50	4.03	3.70	3.38	3.04	-38%	-10%	4%
1A3biii	15.93	14.86	14.73	13.98	13.15	12.49	11.97	11.36	11.26	10.91	10.57	10.27	9.33	8.07	-49%	-13%	10%
1A3biv	0.08	0.06	0.07	0.07	0.08	0.08	0.08	0.09	0.08	0.08	0.07	0.07	0.07	0.06	-21%	-5%	0%
1A3c	1.36	1.96	2.95	3.25	3.74	3.99	3.69	3.59	3.84	4.04	4.09	4.03	4.00	3.72	174%	-7%	5%
1A3dii	3.87	4.11	3.91	3.98	3.70	3.36	3.39	3.32	3.67	3.64	3.26	3.17	3.12	3.19	-18%	2%	4%
1A4ai	1.97	1.80	1.35	1.40	1.23	1.26	1.02	1.05	1.11	1.11	1.00	0.98	0.96	0.81	-59%	-15%	1%
1A4bi	5.62	5.11	4.84	4.54	4.21	4.13	3.56	3.29	3.15	2.86	2.84	2.66	2.77	2.65	-53%	-4%	3%
1A4bii	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	11%	-2%	0%
1A4ci	0.12	0.15	0.09	0.11	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.05	-59%	-29%	0%
1A4cii	9.43	9.43	9.44	9.24	8.95	8.66	8.36	7.92	7.11	6.69	5.74	4.95	4.33	4.01	-57%	-7%	5%
1A4ciii	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	-33%	0%	0%
1A5b	1.69	1.32	0.99	1.03	0.99	0.94	0.89	0.96	1.02	0.89	0.87	0.94	0.86	0.79	-53%	-8%	1%
1B1b	0.16	0.15	0.14	0.11	0.13	0.10	0.07	0.06	0.06	0.06	0.07	0.06	0.07	0.04	-74%	-36%	0%
1B2ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0%	-4%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60%	-6%	0%
2B2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B5a	0.02	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.03	0.03	0.03	9%	-1%	0%
2C1	5.36	6.79	6.93	7.14	6.87	4.95	1.64	2.01	2.36	2.28	2.80	2.74	2.75	1.80	-66%	-35%	2%
2C3	0.33	0.27	0.12	0.09	0.10	0.14	0.14	0.08	0.08	0.08	0.07	0.07	0.07	0.07	-78%	3%	0%
4F	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Ca	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	-64%	0%	0%
6Cb	0.02	0.02	0.05	0.03	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.02	0.02	0%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.01	0.01	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-11%	-1%	0%
6Ce	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-3%	0%	0%
7A	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	-43%	0%	0%
Grand Total	164	143	130	125	129	128	110	107	108	102	106	90	96	81	-51%	-16%	100%

Table E.4: Nitrogen Oxides (as Nitrogen Dioxide) Emissions Inventory for Northern Ireland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
1A1a	31.00	19.24	13.80	14.08	14.83	16.17	12.13	11.26	9.48	9.30	9.31	6.61	6.07	5.10	-84%	-16%	16%
1A1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2fi	9.04	7.86	5.84	4.89	4.33	4.22	3.67	3.50	3.57	4.58	4.33	7.88	4.48	2.97	-67%	-34%	9%
1A2fii	3.62	3.70	3.72	3.67	3.58	3.48	3.36	3.23	3.26	3.24	3.29	3.24	3.03	2.61	-28%	-14%	8%
1A3ai(i)	0.02	0.03	0.04	0.05	0.05	0.05	0.03	0.04	0.05	0.06	0.06	0.07	0.09	0.07	310%	-23%	0%
1A3aii(i)	0.12	0.11	0.11	0.13	0.17	0.18	0.19	0.19	0.21	0.23	0.23	0.23	0.24	0.22	85%	-9%	1%
1A3bi	21.24	14.21	11.10	10.72	10.44	10.02	9.50	9.23	9.25	8.93	8.13	7.64	6.97	5.80	-73%	-17%	18%
1A3bii	0.84	0.89	0.95	1.00	1.06	1.08	1.49	1.46	1.29	1.19	1.17	0.99	1.04	0.77	-8%	-26%	2%
1A3biii	6.46	6.58	6.48	6.63	6.67	6.64	7.42	8.63	7.55	7.41	7.11	6.79	6.14	5.48	-15%	-11%	17%
1A3biv	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.05	0.04	0.04	0.03	0.03	0.03	0.03	-5%	-5%	0%
1A3c	0.42	0.47	0.49	0.49	0.54	0.54	0.40	0.35	0.37	0.39	0.40	0.48	0.51	0.45	5%	-13%	1%
1A3dii	1.38	1.46	1.40	1.50	1.37	1.30	1.39	1.39	1.43	1.48	1.41	1.34	1.31	1.24	-10%	-6%	4%
1A4ai	1.19	0.80	0.49	0.51	0.33	0.39	0.26	0.29	0.33	0.38	0.39	0.42	0.47	0.50	-58%	6%	2%
1A4bi	4.07	3.48	3.69	3.70	3.70	3.65	3.74	3.69	3.62	3.35	3.45	3.10	3.27	3.22	-21%	-1%	10%
1A4bii	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	19%	-1%	0%
1A4ci	0.09	0.12	0.07	0.08	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.02	-78%	-43%	0%
1A4cii	8.53	8.53	8.54	8.36	8.10	7.84	7.56	7.16	6.44	6.21	5.33	4.60	4.02	3.72	-56%	-7%	11%
1A4ciii	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-27%	-8%	0%
1A5b	0.92	0.80	0.66	0.71	0.67	0.65	0.60	0.64	0.67	0.62	0.62	0.69	0.62	0.56	-40%	-10%	2%
1B1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B2	0.72	0.30	0.23	0.25	0.21	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2B5a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9%	-1%	0%
2C1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2C3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3%	16%	0%
4F	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Ca	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-61%	0%	0%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	148%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4%	-1%	0%
6Ce	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4%	0%	0%
7A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-39%	0%	0%
Grand Total	90	69	58	57	56	56	52	51	48	47	45	44	38	33	-63%	-15%	100%

Table E.5: Unallocated Nitrogen Oxides (as Nitrogen Dioxide) Emissions in the UK, 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of UK Total (2009)
1A1c	22.02	31.30	38.95	39.03	35.79	36.23	51.10	45.49	46.99	44.11	38.81	38.52	37.09	34.57	57%	-7%	95%
1B2ai	10.13	0.82	0.58	0.41	0.14	0.10	0.13	0.10	0.09	0.10	0.09	0.09	0.13	0.23	-98%	79%	1%
1B2c	2.20	2.67	2.51	2.60	1.95	1.89	2.39	1.65	1.67	1.88	1.65	1.82	1.44	1.61	-27%	12%	4%
Grand Total	34	35	42	42	38	38	54	47	49	46	41	40	39	36	6%	-6%	100%

APPENDIX F: DEVOLVED ADMINISTRATION SO₂ INVENTORIES, 1990-2009

Table F.1 Sulphur Dioxide Emissions Inventory for England 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
1A1a	2380.8	1385.6	935.1	657.1	678.7	584.7	543.2	545.1	396.4	294.5	256.1	207.6	152.1	107.8	-95%	-29%	38%
1A1b	95.04	82.19	72.24	62.06	50.26	54.51	47.38	48.93	56.34	57.45	55.11	58.63	51.42	39.92	-58%	-22%	14%
1A1c	4.45	2.14	4.10	3.42	4.09	3.53	3.22	3.07	3.61	3.33	3.31	4.57	4.05	3.57	-20%	-12%	1%
1A2a	7.67	8.31	9.81	8.44	6.63	7.97	7.33	4.74	5.35	4.80	5.52	7.72	6.32	5.95	-22%	-6%	2%
1A2fi	318.96	229.49	135.14	104.72	97.47	105.07	88.08	82.58	79.72	79.10	71.15	65.77	62.70	56.55	-82%	-10%	20%
1A2fii	8.14	5.56	5.55	5.43	5.20	4.76	5.47	6.07	6.12	5.88	6.03	5.68	3.33	2.94	-64%	-12%	1%
1A3ai(i)	0.24	0.40	0.60	0.46	0.51	0.54	0.43	0.51	0.59	0.63	0.75	0.66	0.69	0.57	135%	-18%	0%
1A3aii(i)	0.05	0.07	0.11	0.09	0.10	0.12	0.09	0.10	0.12	0.13	0.14	0.11	0.11	0.08	58%	-25%	0%
1A3bi	20.91	18.89	11.25	10.19	4.64	2.63	2.30	2.26	2.12	1.81	1.75	1.51	1.08	0.61	-97%	-43%	0%
1A3bii	4.66	5.07	2.39	0.81	0.38	0.29	0.29	0.30	0.28	0.25	0.19	0.14	0.07	0.06	-99%	-12%	0%
1A3biii	27.68	19.11	5.76	0.98	0.56	0.55	0.56	0.57	0.52	0.46	0.33	0.24	0.10	0.10	-100%	-2%	0%
1A3biv	0.16	0.08	0.07	0.08	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	-99%	-74%	0%
1A3c	1.50	0.97	1.10	1.10	1.07	1.01	1.21	1.36	1.37	1.39	1.39	1.31	0.85	0.90	-40%	6%	0%
1A3dii	15.68	14.42	14.35	13.93	12.78	12.62	13.32	13.37	13.36	14.00	13.58	9.61	9.14	8.60	-45%	-6%	3%
1A4ai	62.03	38.59	20.08	16.06	10.36	11.42	5.79	4.29	3.89	4.30	3.80	3.29	4.30	4.04	-93%	-6%	1%
1A4bi	63.10	51.24	45.00	44.02	38.05	34.97	27.45	24.77	22.94	17.90	18.03	19.01	19.74	18.05	-71%	-9%	6%
1A4bii	0.09	0.08	0.04	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	-99%	-72%	0%
1A4ci	2.88	3.60	1.89	1.63	0.27	0.25	0.12	0.11	0.16	0.16	0.16	0.14	0.37	0.13	-95%	-65%	0%
1A4cii	3.58	2.40	2.39	2.30	2.15	1.94	2.21	2.43	2.23	2.15	2.02	1.79	1.08	1.14	-68%	5%	0%
1A4ciii	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-62%	-9%	0%
1A5b	5.48	3.92	3.10	3.06	2.85	2.78	2.75	3.14	3.45	3.16	3.27	7.07	6.28	5.89	7%	-6%	2%
1B1b	16.03	8.81	7.21	6.11	5.93	6.64	5.19	6.60	7.86	6.83	6.86	10.31	9.40	7.93	-51%	-16%	3%
1B2ai	0.08	0.06	0.25	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	-90%	0%	0%
1B2c	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.04	0.05	0.09	0.04	0.04	0.07	0.00	-15%	-100%	0%
2A7d	4.27	9.67	13.09	8.94	10.51	9.07	12.00	16.37	16.55	17.25	18.39	15.86	17.14	6.39	50%	-63%	2%
2B5a	39.70	38.24	35.30	30.27	22.25	16.30	12.71	9.69	8.65	7.11	5.67	5.84	4.23	1.66	-96%	-61%	1%
2C1	9.55	10.58	9.98	10.03	6.04	8.81	7.13	5.34	6.62	6.80	6.52	7.02	7.71	7.08	-26%	-8%	2%
2C3	1.82	1.50	1.62	2.39	2.55	2.56	2.32	2.54	3.00	3.24	3.07	2.79	2.77	1.68	-8%	-39%	1%
2C5b	1.70	1.66	2.76	1.42	1.20	1.39	0.60	1.40	0.91	1.12	1.19	1.05	1.20	1.30	-24%	8%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
6Ca	0.32	0.25	0.21	0.22	0.23	0.23	0.24	0.20	0.17	0.14	0.11	0.11	0.12	0.12	-62%	0%	0%
6Cb	2.86	2.93	0.71	0.92	0.66	0.40	0.40	0.40	0.39	0.39	0.39	0.37	0.33	0.33	-88%	0%	0%
6Cc	3.62	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	0.16	0.16	0.16	0.16	0.16	1.21	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	-1%	0%	0%
Grand Total	3103	1947	1341	996	966	876	792	787	643	535	485	438	367	284	-91%	-23%	100%

Table F.2 Sulphur Dioxide Emissions Inventory for Scotland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
1A1a	196.30	117.41	80.99	67.85	96.16	93.29	87.99	76.64	62.87	49.73	59.62	46.96	40.38	43.56	-78%	8%	66%
1A1b	20.13	17.41	15.30	13.15	10.77	8.07	8.06	5.58	3.93	3.79	6.21	5.77	6.12	5.78	-71%	-6%	9%
1A1c	0.41	0.05	0.02	0.19	0.16	0.13	0.10	0.04	0.05	0.04	0.04	0.04	0.05	0.01	-96%	-72%	0%
1A2a	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1A2fi	34.03	20.84	9.23	6.55	6.13	6.41	9.09	8.71	9.26	8.94	7.23	6.23	5.06	3.97	-88%	-21%	6%
1A2fii	0.76	0.52	0.52	0.51	0.48	0.44	0.51	0.56	0.57	0.54	0.55	0.52	0.30	0.27	-64%	-12%	0%
1A3ai(i)	0.01	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	117%	-20%	0%
1A3aii(i)	0.02	0.02	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.05	0.04	0.04	0.03	68%	-25%	0%
1A3bi	2.03	1.87	1.07	0.93	0.42	0.24	0.21	0.21	0.20	0.17	0.16	0.14	0.10	0.06	-97%	-43%	0%
1A3bii	0.47	0.51	0.25	0.08	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	-99%	-12%	0%
1A3biii	2.98	2.02	0.59	0.10	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.03	0.01	0.01	-100%	-2%	0%
1A3biv	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-98%	-73%	0%
1A3c	0.19	0.12	0.14	0.14	0.13	0.12	0.14	0.16	0.16	0.17	0.17	0.16	0.10	0.11	-43%	11%	0%
1A3dii	5.78	5.32	4.87	5.07	4.59	4.26	4.49	3.99	3.90	3.89	3.45	2.46	2.28	2.16	-63%	-5%	3%
1A4ai	7.24	5.04	2.52	1.96	1.21	1.39	0.67	0.48	0.41	0.40	0.40	0.35	0.47	0.43	-94%	-8%	1%
1A4bi	19.80	17.79	17.03	16.28	14.65	13.32	11.63	10.44	9.40	8.00	7.80	7.71	8.23	7.42	-63%	-10%	11%
1A4bii	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-99%	-72%	0%
1A4ci	0.81	1.06	0.56	0.48	0.07	0.07	0.03	0.03	0.04	0.04	0.04	0.04	0.10	0.04	-95%	-60%	0%
1A4cii	1.07	0.72	0.72	0.69	0.65	0.58	0.67	0.73	0.67	0.66	0.62	0.55	0.33	0.35	-68%	5%	1%
1A4ciii	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-74%	-8%	0%
1A5b	0.58	0.42	0.32	0.31	0.29	0.28	0.28	0.32	0.35	0.32	0.33	0.69	0.61	0.58	0%	-5%	1%
1B1b	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1B2ai	0.06	0.05	0.18	0.49	0.34	1.20	0.88	0.48	0.45	0.39	0.17	0.17	0.11	0.00	-99%	-100%	0%
1B2c	0.00	0.01	0.01	0.03	0.05	0.04	0.04	0.01	0.03	0.01	0.01	0.01	0.04	0.02	591%	-42%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B5a	0.43	0.35	0.28	0.23	0.16	0.12	0.08	0.04	0.03	0.03	0.02	0.02	0.02	0.02	-96%	-7%	0%
2C1	1.99	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	-11%	0%
2C3	0.72	0.59	0.64	0.66	0.64	0.62	0.56	0.78	0.74	0.74	0.72	0.64	0.63	0.56	-22%	-12%	1%
2C5b	0.07	0.07	0.12	0.06	0.05	0.06	0.03	0.06	0.04	0.05	0.05	0.05	0.05	0.06	-24%	8%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
6Ca	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	-64%	0%	0%
6Cb	0.09	0.10	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	-65%	0%	0%
6Cc	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	0.02	0.02	0.02	0.02	0.02	0.29	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0%	0%	0%
Grand Total	299	192	136	116	137	131	126	110	93	78	88	73	65	66	-78%	1%	100%

Table F.3: Sulphur Dioxide Emissions Inventory for Wales 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
1A1a	85.30	49.63	33.50	24.45	47.61	41.39	31.56	37.16	33.92	26.87	31.44	22.09	9.35	3.62	-96%	-61%	11%
1A1b	22.41	19.38	17.03	14.63	11.86	9.77	10.33	8.77	9.87	11.80	13.81	14.57	14.46	13.29	-41%	-8%	42%
1A1c	1.10	0.67	1.21	1.02	0.74	0.81	0.32	0.34	0.36	0.42	0.43	0.42	0.43	0.39	-64%	-8%	1%
1A2a	4.91	8.36	6.22	7.10	6.74	4.96	1.53	0.82	0.70	0.76	1.02	1.97	1.64	1.73	-65%	5%	5%
1A2fi	36.27	21.34	12.13	8.45	8.81	10.66	8.27	7.38	5.01	2.95	2.34	2.24	2.42	3.14	-91%	30%	10%
1A2fii	0.55	0.38	0.38	0.37	0.35	0.32	0.37	0.41	0.42	0.40	0.42	0.39	0.23	0.20	-64%	-12%	1%
1A3ai(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143%	-32%	0%
1A3aii(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89%	-34%	0%
1A3bi	1.29	1.19	0.70	0.59	0.27	0.15	0.14	0.14	0.13	0.11	0.11	0.09	0.06	0.04	-97%	-43%	0%
1A3bii	0.30	0.33	0.15	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	-99%	-12%	0%
1A3biii	1.55	1.04	0.32	0.05	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	-100%	-2%	0%
1A3biv	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-98%	-74%	0%
1A3c	0.16	0.10	0.11	0.11	0.10	0.10	0.12	0.13	0.13	0.14	0.14	0.13	0.08	0.08	-48%	-1%	0%
1A3dii	2.61	2.40	2.19	2.20	2.04	1.88	1.91	1.90	2.12	2.12	1.92	1.36	1.32	1.36	-48%	3%	4%
1A4ai	5.39	3.29	1.74	1.39	0.91	0.99	0.51	0.38	0.33	0.34	0.29	0.26	0.34	0.35	-93%	5%	1%
1A4bi	10.79	9.22	7.92	7.80	6.64	6.12	4.59	4.15	3.91	2.93	3.11	3.52	3.75	3.47	-68%	-8%	11%
1A4bii	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-99%	-72%	0%
1A4ci	0.57	0.73	0.38	0.33	0.05	0.05	0.02	0.02	0.03	0.03	0.03	0.03	0.07	0.03	-95%	-62%	0%
1A4cii	0.74	0.49	0.49	0.47	0.44	0.40	0.46	0.50	0.46	0.45	0.42	0.37	0.22	0.24	-68%	5%	1%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-64%	0%	0%
1A5b	0.26	0.19	0.13	0.13	0.12	0.12	0.11	0.13	0.15	0.13	0.13	0.29	0.26	0.24	-8%	-7%	1%
1B1b	4.12	1.98	2.26	1.90	1.38	1.52	0.61	0.69	0.74	0.83	0.89	0.83	0.84	0.71	-83%	-16%	2%
1B2ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0%	-14%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76%	-31%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B5a	1.37	1.12	0.89	0.74	0.50	0.38	0.24	0.13	0.09	0.08	0.08	0.06	0.06	0.06	-96%	-7%	0%
2C1	5.69	7.21	7.32	7.31	5.22	3.09	1.81	2.61	2.57	2.46	3.81	3.57	2.71	2.54	-55%	-6%	8%
2C3	1.56	1.28	1.39	1.00	1.59	2.18	1.98	1.42	1.69	1.99	1.77	1.76	1.61	0.01	-99%	-99%	0%
2C5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
6Ca	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-64%	0%	0%
6Cb	0.06	0.06	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-65%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5%	0%	0%
Grand Total	187	130	97	80	95	85	65	67	63	55	62	54	40	32	-83%	-21%	100%

Table F.4: Sulphur Dioxide Emissions Inventory for Northern Ireland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
1A1a	68.19	39.68	26.78	26.81	29.18	30.11	18.35	17.44	16.43	14.86	13.43	8.29	10.98	4.51	-93%	-59%	29%
1A1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2fi	18.13	15.23	7.80	4.79	3.87	4.23	2.40	2.09	2.53	3.36	3.07	2.76	3.23	2.74	-85%	-15%	18%
1A2fii	0.29	0.20	0.20	0.19	0.19	0.17	0.20	0.22	0.22	0.22	0.23	0.22	0.13	0.11	-61%	-12%	1%
1A3ai(i)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	127%	-32%	0%
1A3aii(i)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	135%	-21%	0%
1A3bi	0.83	0.91	0.51	0.37	0.17	0.10	0.09	0.09	0.09	0.07	0.07	0.06	0.04	0.02	-97%	-36%	0%
1A3bii	0.14	0.11	0.04	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-99%	-20%	0%
1A3biii	0.65	0.49	0.15	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	-99%	1%	0%
1A3biv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-98%	-74%	0%
1A3c	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.02	0.02	-27%	-6%	0%
1A3dii	0.93	0.85	0.78	0.83	0.75	0.73	0.79	0.79	0.83	0.86	0.83	0.57	0.56	0.52	-43%	-6%	3%
1A4ai	5.32	3.24	1.73	1.38	0.89	0.97	0.49	0.37	0.34	0.29	0.27	0.27	0.35	0.31	-94%	-11%	2%
1A4bi	17.09	17.36	16.48	15.00	14.05	12.42	11.57	10.37	8.91	7.89	7.60	7.19	7.61	6.80	-60%	-11%	44%
1A4bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-99%	-72%	0%
1A4ci	0.52	0.66	0.35	0.30	0.05	0.04	0.02	0.02	0.03	0.02	0.03	0.02	0.06	0.02	-95%	-61%	0%
1A4cii	0.67	0.45	0.45	0.43	0.40	0.36	0.41	0.45	0.42	0.42	0.39	0.34	0.21	0.22	-67%	5%	1%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-60%	-8%	0%
1A5b	0.14	0.11	0.08	0.08	0.08	0.07	0.07	0.08	0.09	0.08	0.09	0.19	0.17	0.16	14%	-6%	1%
1B1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2B5a	0.10	0.08	0.07	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	-96%	-7%	0%
2C1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2C3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-82%	-81%	0%
2C5b	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.01	-24%	8%	0%
6Ca	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	-61%	0%	0%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
6Cb	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-62%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1%	0%	0%
Grand Total	113	79	55	50	50	49	35	32	30	28	26	20	23	15	-86%	-34%	100%

Table F.5: Unallocated Sulphur Dioxide Emissions in the UK, 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of UK Total (2009)
1A1c	0.36	0.51	0.70	3.94	3.07	2.95	0.43	0.50	0.38	0.33	0.44	0.25	0.54	0.51	44%	-4%	56%
1B2ai	7.52	6.17	0.66	0.70	0.70	0.00	0.06	0.51	0.58	0.61	0.59	0.00	1.22	0.21	-97%	-83%	23%
1B2c	0.11	0.32	0.27	0.50	0.31	0.36	0.19	0.20	0.24	0.16	0.15	0.13	0.24	0.19	69%	-22%	21%
Grand Total	8	7	2	5	4	3	0.7	1.2	1.2	1.1	1.2	0.4	2.0	0.9	-89%	-54%	100%

APPENDIX G: DEVOLVED ADMINISTRATION NMVOC INVENTORIES, 1990-2009

Table G.1 Non Methane Volatile Organic Compounds (NMVOC) Emissions Inventory for England 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
1A1a	5.21	5.50	2.93	2.62	4.10	3.38	5.10	3.63	3.44	3.02	3.41	2.38	2.43	2.22	-57%	-9%	0%
1A1b	0.46	0.51	0.50	0.47	0.47	0.44	0.46	0.43	0.45	0.49	0.47	0.44	0.49	0.46	-1%	-6%	0%
1A1c	0.15	0.13	0.17	0.17	0.13	0.13	0.14	0.14	0.19	0.31	0.14	0.16	0.16	0.16	10%	4%	0%
1A2a	0.33	0.36	0.34	0.32	0.26	0.27	0.29	0.29	0.27	0.28	0.28	0.28	0.25	0.22	-35%	-14%	0%
1A2fi	3.53	3.83	3.93	3.51	3.26	3.44	2.97	2.94	2.72	2.61	2.23	2.39	2.49	2.09	-41%	-16%	0%
1A2fii	19.20	19.64	19.74	19.74	19.64	19.58	19.45	19.22	20.06	19.65	19.74	19.82	18.77	16.28	-15%	-13%	3%
1A3ai(i)	2.91	1.93	1.91	1.67	1.40	1.09	1.01	0.99	0.93	0.98	0.97	0.91	0.87	0.84	-71%	-3%	0%
1A3aii(i)	0.94	0.63	0.75	0.88	0.92	1.00	0.86	0.84	0.81	0.80	0.72	0.51	0.47	0.37	-61%	-22%	0%
1A3bi	469.58	383.34	314.72	286.15	245.61	214.95	187.32	161.91	141.45	122.60	108.11	96.62	87.67	50.53	-89%	-42%	9%
1A3bii	57.21	46.47	36.41	30.10	24.24	20.14	16.25	13.53	11.36	9.47	8.61	7.70	6.85	6.23	-89%	-9%	1%
1A3biii	19.68	18.10	15.30	14.05	13.52	12.19	11.14	10.30	9.75	8.96	8.30	7.18	5.62	4.49	-77%	-20%	1%
1A3biv	16.02	9.31	9.66	10.60	9.40	9.11	8.71	9.18	7.73	7.46	6.41	6.30	5.02	4.73	-70%	-6%	1%
1A3bv	282.85	211.07	160.89	139.63	117.40	94.72	74.21	55.04	40.56	29.08	21.30	15.44	11.64	8.60	-97%	-26%	1%
1A3c	2.43	2.39	2.79	2.94	3.30	3.46	2.98	2.71	2.82	2.90	2.95	2.91	2.97	2.83	16%	-5%	0%
1A3dii	0.97	1.02	1.06	1.04	0.96	0.94	0.99	0.99	0.99	1.04	0.99	1.00	0.97	0.91	-6%	-6%	0%
1A4ai	0.81	0.94	0.93	0.96	0.94	0.96	0.82	0.84	0.86	0.84	0.77	0.72	0.73	0.64	-21%	-13%	0%
1A4bi	42.29	26.98	28.36	30.43	24.08	22.24	19.25	18.54	19.20	19.53	19.81	22.01	23.78	23.86	-44%	0%	4%
1A4bii	12.37	13.03	12.28	12.04	11.82	11.70	11.61	11.52	10.96	9.80	8.74	7.62	6.46	5.32	-57%	-18%	1%
1A4ci	1.71	1.70	1.70	1.73	1.71	1.72	1.71	1.71	1.69	1.86	2.06	1.95	3.11	3.15	85%	1%	1%
1A4cii	6.51	6.51	6.52	6.39	6.20	6.03	5.86	5.66	5.17	5.09	4.47	4.00	3.67	3.53	-46%	-4%	1%
1A4ciii	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-23%	-9%	0%
1A5b	2.29	1.87	1.73	1.75	1.70	1.67	1.72	1.79	1.81	1.71	1.73	1.94	1.82	1.64	-29%	-10%	0%
1B1b	0.20	0.11	0.11	0.11	0.08	0.07	0.07	0.07	0.08	0.08	0.10	0.09	0.09	0.08	-60%	-15%	0%
1B2ai	66.92	48.57	39.79	47.08	45.11	52.88	36.18	30.08	26.51	25.91	20.88	21.37	19.10	20.37	-70%	7%	3%
1B2aiv	65.92	57.41	38.57	30.53	29.02	24.85	23.43	22.57	20.76	21.29	19.68	19.11	18.60	13.72	-79%	-26%	2%
1B2av	99.66	89.25	80.41	58.18	53.83	51.84	50.20	48.32	44.82	40.60	38.55	35.11	30.79	27.21	-73%	-12%	5%
1B2b	35.63	33.33	55.38	55.43	52.28	54.67	54.16	38.78	40.05	39.71	36.72	36.15	32.88	32.38	-9%	-2%	5%
1B2c	2.56	2.01	2.38	2.32	2.79	2.96	2.66	1.31	1.96	2.47	2.07	1.51	1.35	1.39	-46%	3%	0%
2A6	0.20	0.21	0.17	0.17	0.16	0.17	0.17	0.17	0.14	0.15	0.16	0.15	0.15	0.15	-22%	5%	0%
2A7d	3.01	2.11	1.96	0.75	1.78	1.36	1.48	1.29	1.31	1.88	3.00	3.57	2.75	1.28	-58%	-54%	0%
2B5a	149.91	134.54	91.02	60.35	57.19	46.06	44.97	49.98	33.23	30.54	23.66	21.75	17.74	12.94	-91%	-27%	2%
2C1	1.41	1.42	1.39	1.31	1.15	1.17	1.21	1.27	1.62	1.73	1.29	1.33	1.26	0.89	-37%	-29%	0%
2D2	27.41	27.59	27.49	27.80	26.81	27.35	27.22	27.53	27.51	26.30	25.99	26.07	26.09	25.85	-6%	-1%	4%
2D3	3.60	3.23	0.16	0.17	0.16	0.17	0.19	0.20	0.21	0.20	0.20	0.13	0.13	0.13	-96%	0%	0%
3A1	54.46	40.94	41.28	42.17	43.49	46.77	48.97	49.32	49.66	46.98	45.06	41.69	35.48	31.81	-42%	-10%	5%
3A2	111.05	79.46	69.83	66.03	60.18	56.42	56.68	54.41	52.59	50.21	52.31	50.25	40.63	33.04	-70%	-19%	6%
3A3	6.77	5.47	5.93	5.18	6.08	5.39	4.77	4.73	4.68	4.09	4.97	4.48	3.63	3.08	-55%	-15%	1%
3B1	62.63	40.34	36.78	34.35	33.27	30.99	28.16	24.56	23.26	22.44	21.74	21.96	22.03	21.61	-65%	-2%	4%
3B2	8.90	6.62	5.26	4.81	4.19	4.14	4.07	4.01	3.95	3.89	3.83	3.78	3.84	3.89	-56%	1%	1%
3C	49.73	41.19	32.72	25.34	19.60	15.50	14.17	13.80	13.43	12.81	12.69	12.30	11.65	10.81	-78%	-7%	2%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
3D1	41.62	41.57	40.80	36.44	26.15	21.05	17.87	17.75	18.04	16.71	16.59	15.00	14.63	13.50	-68%	-8%	2%
3D2	109.23	104.13	99.37	99.52	101.20	104.19	104.63	103.35	104.31	105.91	105.42	107.16	107.34	107.09	-2%	0%	18%
3D3	111.93	90.71	84.25	79.39	77.72	75.64	74.47	76.79	78.76	80.41	80.00	80.02	80.17	78.01	-30%	-3%	13%
4F	23.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6A	21.32	16.55	13.27	12.00	11.13	9.71	8.79	7.65	6.96	6.67	6.48	6.29	6.05	5.89	-72%	-3%	1%
6Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-62%	0%	0%
6Cb	0.18	0.19	0.27	0.22	0.24	0.16	0.14	0.15	0.15	0.14	0.24	0.14	0.12	0.12	-35%	0%	0%
6Cc	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	0%	0%	0%
6Ce	3.45	3.45	3.46	3.46	3.46	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	1%	0%	1%
7A	1.99	1.95	1.52	1.70	1.55	1.65	1.69	1.84	1.49	1.41	1.43	1.34	1.18	1.18	-40%	0%	0%
Grand Total	2013	1629	1398	1264	1151	1070	984	907	844	796	750	718	669	591	-71%	-12%	100%

Table G.2 Non Methane Volatile Organic Compounds (NMVOC) Emissions Inventory for Scotland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
1A1a	0.63	0.68	0.37	0.23	0.49	0.32	0.53	0.39	0.46	0.41	0.54	0.29	0.39	0.37	-41%	-4%	0%
1A1b	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.08	0.07	-3%	-4%	0%
1A1c	0.12	0.16	0.21	0.08	0.08	0.11	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.04	-69%	-21%	0%
1A2a	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-98%	-49%	0%
1A2fi	0.33	0.39	0.40	0.37	0.36	0.38	0.34	0.34	0.26	0.23	0.23	0.29	0.29	0.26	-22%	-12%	0%
1A2fii	1.79	1.83	1.84	1.84	1.83	1.82	1.81	1.79	1.87	1.81	1.81	1.81	1.72	1.49	-17%	-13%	1%
1A3ai(i)	0.14	0.11	0.11	0.10	0.10	0.10	0.10	0.09	0.08	0.09	0.09	0.10	0.09	0.08	-43%	-11%	0%
1A3aii(i)	0.19	0.12	0.11	0.13	0.13	0.13	0.12	0.13	0.14	0.14	0.14	0.12	0.11	0.09	-54%	-21%	0%
1A3bi	41.89	32.05	24.28	21.67	18.41	15.85	13.81	11.94	10.52	9.21	8.38	7.61	7.06	3.90	-91%	-45%	3%
1A3bii	5.10	4.11	3.36	2.77	2.17	1.76	1.43	1.19	1.00	0.83	0.75	0.67	0.60	0.54	-89%	-10%	0%
1A3biii	2.12	1.93	1.63	1.48	1.41	1.26	1.15	1.09	1.02	0.95	0.90	0.79	0.63	0.51	-76%	-19%	0%
1A3biv	0.64	0.40	0.43	0.48	0.44	0.43	0.43	0.47	0.41	0.38	0.33	0.33	0.28	0.26	-59%	-5%	0%
1A3bv	26.87	19.54	14.59	12.70	10.64	8.58	6.80	5.06	3.72	2.64	1.96	1.41	1.06	0.78	-97%	-27%	1%
1A3c	0.30	0.30	0.35	0.36	0.40	0.42	0.36	0.33	0.34	0.35	0.36	0.35	0.34	0.34	12%	-1%	0%
1A3dii	0.36	0.38	0.36	0.38	0.35	0.32	0.33	0.30	0.29	0.29	0.25	0.26	0.24	0.23	-36%	-6%	0%
1A4ai	0.08	0.08	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	-25%	-12%	0%
1A4bi	11.07	6.23	6.23	6.61	5.31	4.84	4.14	4.13	3.99	4.00	5.49	5.96	6.60	6.66	-40%	1%	5%
1A4bii	1.32	1.38	1.28	1.25	1.22	1.20	1.18	1.17	1.11	0.99	0.88	0.77	0.65	0.53	-60%	-18%	0%
1A4ci	0.10	0.11	0.10	0.09	0.10	0.09	0.09	0.09	0.10	0.11	0.13	0.14	0.19	0.18	72%	-5%	0%
1A4cii	1.97	1.97	1.97	1.93	1.87	1.82	1.77	1.71	1.56	1.57	1.37	1.23	1.12	1.08	-45%	-4%	1%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-48%	-8%	0%
1A5b	0.26	0.22	0.21	0.21	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.23	0.21	0.19	-28%	-10%	0%
1B1b	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1B2ai	140.02	85.37	71.39	60.41	58.36	49.19	47.73	36.98	23.69	25.91	24.43	24.98	19.44	6.83	-95%	-65%	5%
1B2aiv	21.80	18.24	12.42	9.58	9.04	5.96	5.54	5.64	6.16	5.31	5.40	4.72	4.43	4.17	-81%	-6%	3%
1B2av	9.49	8.28	7.28	5.28	4.84	4.69	4.54	4.40	4.08	3.67	3.52	3.20	2.80	2.43	-74%	-13%	2%
1B2b	2.88	2.70	4.48	4.48	4.72	4.69	4.77	3.03	3.18	3.07	2.79	2.83	2.67	2.61	-10%	-2%	2%
1B2c	2.67	2.32	2.20	1.89	2.02	3.83	8.95	2.41	2.09	2.27	1.95	2.77	2.90	2.78	4%	-4%	2%
2A6	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.01	-26%	6%	0%
2A7d	0.04	0.04	0.04	0.04	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	-30%	21%	0%
2B5a	17.89	16.03	11.46	11.83	11.94	10.03	9.54	10.54	7.61	7.32	7.79	8.35	6.21	5.50	-69%	-11%	4%
2C1	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-92%	-15%	0%
2D2	42.27	43.95	48.21	49.24	48.62	49.29	49.04	49.00	48.89	48.49	48.29	49.40	51.04	52.15	23%	2%	42%
2D3	0.25	0.23	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-96%	0%	0%
3A1	5.80	4.33	4.31	4.38	4.49	4.79	4.99	5.00	5.03	4.75	4.54	4.20	3.57	3.19	-45%	-11%	3%
3A2	9.84	6.79	6.26	4.56	4.18	3.93	3.80	3.65	3.54	3.26	3.53	3.41	2.79	2.37	-76%	-15%	2%
3A3	0.46	0.37	0.40	0.35	0.41	0.36	0.32	0.32	0.32	0.28	0.33	0.30	0.24	0.21	-55%	-15%	0%
3B1	6.66	4.24	3.82	3.55	3.42	3.16	2.85	2.48	2.34	2.25	2.18	2.20	2.20	2.16	-68%	-2%	2%
3B2	0.72	0.53	0.42	0.39	0.34	0.33	0.33	0.32	0.32	0.31	0.31	0.31	0.31	0.31	-56%	1%	0%
3C	4.98	4.31	4.23	1.74	1.16	1.18	1.17	1.16	1.15	1.03	1.02	1.03	1.00	0.91	-82%	-10%	1%
3D1	3.76	3.82	3.75	2.98	2.22	1.60	1.46	1.48	1.51	1.33	1.33	1.24	1.26	1.14	-70%	-9%	1%
3D2	11.84	11.15	10.52	10.49	10.60	10.83	10.82	10.65	10.74	10.87	10.79	10.96	10.95	10.91	-8%	0%	9%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
3D3	14.46	12.26	10.79	9.83	9.25	8.61	8.04	8.27	8.34	8.43	8.34	8.39	8.42	8.11	-44%	-4%	6%
4F	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6A	3.00	2.32	1.86	1.69	1.56	1.29	1.19	1.03	0.99	0.96	0.99	0.97	0.99	0.91	-70%	-8%	1%
6Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-64%	0%	0%
6Cb	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	112%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6Cd	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0%	0%	0%
6Ce	0.37	0.36	0.36	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	-5%	0%	0%
7A	0.21	0.21	0.16	0.18	0.16	0.17	0.17	0.19	0.15	0.14	0.14	0.14	0.12	0.12	-44%	0%	0%
Grand Total	397	300	263	236	224	204	201	178	158	155	152	153	144	125	-68%	-13%	100%

Table G.3: Non Methane Volatile Organic Compounds (NMVOC) Emissions Inventory for Wales 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
1A1a	0.87	0.91	0.48	0.33	0.52	0.36	0.54	0.43	0.30	0.22	0.23	0.18	0.22	0.16	-81%	-27%	0%
1A1b	0.12	0.13	0.13	0.13	0.12	0.11	0.12	0.11	0.13	0.13	0.12	0.11	0.12	0.12	1%	-2%	0%
1A1c	0.04	0.05	0.07	0.07	0.07	0.06	0.04	0.04	0.02	0.02	0.02	0.03	0.03	0.03	-31%	7%	0%
1A2a	0.20	0.27	0.30	0.31	0.25	0.17	0.11	0.16	0.16	0.15	0.16	0.15	0.14	0.11	-47%	-23%	0%
1A2fi	0.28	0.26	0.30	0.35	0.54	0.48	0.46	0.49	0.34	0.16	0.19	0.19	0.18	0.16	-41%	-9%	0%
1A2fii	1.31	1.34	1.34	1.35	1.34	1.33	1.33	1.31	1.37	1.35	1.36	1.36	1.29	1.12	-14%	-13%	2%
1A3ai(i)	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-68%	-15%	0%
1A3aii(i)	0.02	0.01	0.02	0.03	0.03	0.04	0.02	0.02	0.02	0.04	0.03	0.03	0.02	0.02	-29%	-31%	0%
1A3bi	26.58	21.88	17.43	15.82	13.87	12.08	10.58	9.07	7.82	6.68	5.93	5.33	4.84	2.73	-90%	-44%	6%
1A3bii	3.23	2.65	2.10	1.76	1.43	1.19	1.00	0.85	0.72	0.60	0.55	0.49	0.45	0.41	-87%	-9%	1%
1A3biii	1.17	1.05	0.92	0.81	0.75	0.66	0.59	0.53	0.50	0.46	0.42	0.37	0.30	0.24	-79%	-19%	1%
1A3biv	0.58	0.35	0.37	0.41	0.38	0.37	0.36	0.38	0.33	0.32	0.27	0.27	0.23	0.22	-62%	-5%	0%
1A3bv	17.30	12.65	9.22	7.99	6.69	5.40	4.29	3.21	2.38	1.69	1.26	0.91	0.69	0.50	-97%	-27%	1%
1A3c	0.22	0.21	0.25	0.27	0.29	0.31	0.28	0.27	0.29	0.30	0.30	0.30	0.31	0.28	28%	-8%	1%
1A3dii	0.16	0.17	0.16	0.16	0.15	0.14	0.14	0.14	0.16	0.16	0.14	0.14	0.14	0.14	-11%	2%	0%
1A4ai	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.03	-35%	-12%	0%
1A4bi	7.18	5.14	5.43	5.87	4.52	4.15	3.52	3.38	3.53	3.63	4.43	5.06	5.55	5.62	-22%	1%	12%
1A4bii	0.74	0.78	0.73	0.71	0.70	0.69	0.68	0.68	0.65	0.57	0.51	0.44	0.38	0.31	-58%	-18%	1%
1A4ci	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	172%	23%	0%
1A4cii	1.34	1.34	1.35	1.32	1.28	1.24	1.21	1.17	1.07	1.06	0.93	0.83	0.76	0.73	-46%	-4%	2%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-27%	0%	0%
1A5b	0.10	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.06	0.06	0.05	-49%	-11%	0%
1B1b	0.10	0.16	0.15	0.15	0.12	0.10	0.06	0.05	0.02	0.02	0.04	0.04	0.04	0.03	-69%	-12%	0%
1B2ai	0.92	1.65	1.32	1.26	1.13	0.53	0.43	0.42	0.39	0.37	0.35	0.48	0.27	0.21	-77%	-23%	0%
1B2aiv	12.62	11.35	7.55	6.19	7.20	6.06	6.37	5.79	6.40	5.98	6.59	7.07	6.70	6.78	-46%	1%	15%
1B2av	6.95	5.95	4.95	3.54	3.73	3.18	3.17	3.06	2.77	2.48	2.53	2.30	2.10	2.27	-67%	8%	5%
1B2b	1.71	1.60	2.66	2.66	2.67	2.27	2.49	1.96	2.43	2.29	2.14	2.52	1.78	2.13	25%	20%	5%
1B2c	0.44	0.22	0.59	0.52	0.53	0.51	0.39	0.44	0.43	0.43	0.60	0.65	0.66	0.53	20%	-19%	1%
2A6	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-34%	5%	0%
2A7d	0.08	0.08	0.08	0.07	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	-77%	-32%	0%
2B5a	2.79	2.50	2.45	2.19	1.77	1.23	0.45	3.39	2.14	0.29	0.38	0.27	0.20	0.19	-93%	-2%	0%
2C1	0.93	0.95	0.98	0.92	0.86	0.62	0.32	0.51	0.58	0.60	0.64	0.66	0.62	0.49	-47%	-22%	1%
2D2	1.48	1.47	1.45	1.45	1.39	1.41	1.40	1.43	1.42	1.37	1.37	1.37	1.37	1.34	-9%	-2%	3%
2D3	0.25	0.22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-96%	0%	0%
3A1	3.27	2.45	2.46	2.50	2.57	2.75	2.88	2.91	2.93	2.76	2.63	2.43	2.06	1.84	-44%	-11%	4%
3A2	11.48	8.19	6.01	5.53	4.75	4.43	4.06	3.88	3.84	4.46	4.73	4.60	3.69	3.07	-73%	-17%	7%
3A3	0.55	0.44	0.48	0.42	0.49	0.43	0.38	0.38	0.38	0.33	0.40	0.36	0.29	0.25	-55%	-15%	1%
3B1	3.76	2.43	2.21	2.06	1.99	1.85	1.68	1.47	1.39	1.34	1.29	1.31	1.31	1.28	-66%	-2%	3%
3B2	0.31	0.23	0.18	0.17	0.15	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	-56%	1%	0%
3C	5.46	4.48	3.17	2.85	1.74	0.75	0.74	0.71	0.69	0.67	0.67	0.66	0.65	0.62	-89%	-5%	1%
3D1	3.56	3.60	3.56	3.54	1.15	1.12	1.06	1.08	1.11	1.07	1.05	0.92	1.04	0.98	-73%	-6%	2%
3D2	6.38	6.10	5.79	5.77	5.88	6.01	6.04	5.97	6.03	6.09	6.04	6.13	6.13	6.08	-5%	-1%	13%
3D3	8.90	6.33	4.97	4.65	4.51	4.36	4.22	4.31	4.36	4.37	4.29	4.25	4.26	4.10	-54%	-4%	9%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
4F	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6A	1.49	1.15	0.93	0.84	0.78	0.68	0.62	0.55	0.53	0.52	0.48	0.47	0.45	0.44	-70%	-3%	1%
6Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-64%	0%	0%
6Cb	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-65%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0%	0%	0%
6Ce	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	-3%	0%	0%
7A	0.12	0.12	0.09	0.10	0.09	0.10	0.10	0.11	0.09	0.08	0.08	0.08	0.07	0.07	-43%	0%	0%
Grand Total	136	111	93	85	77	68	63	61	58	54	54	53	50	46	-66%	-8%	100%

Table G.4: Non Methane Volatile Organic Compounds (NMVOC) Emissions Inventory for Northern Ireland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
1A1a	0.34	0.36	0.19	0.17	0.24	0.05	0.05	0.04	0.22	0.35	0.35	0.08	0.20	0.20	-40%	2%	1%
1A1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2fi	0.15	0.15	0.16	0.14	0.06	0.05	0.05	0.07	0.06	0.07	0.08	0.09	0.08	0.06	-62%	-30%	0%
1A2fii	0.69	0.70	0.71	0.71	0.70	0.70	0.70	0.69	0.72	0.73	0.76	0.76	0.72	0.63	-9%	-13%	3%
1A3ai(i)	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	-19%	-28%	0%
1A3aii(i)	0.12	0.07	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.02	-80%	-19%	0%
1A3bi	15.29	10.43	7.07	6.23	5.35	4.68	3.85	3.47	3.22	2.91	2.69	2.55	2.40	1.45	-91%	-39%	7%
1A3bii	0.14	0.15	0.14	0.13	0.13	0.12	0.15	0.14	0.11	0.10	0.10	0.09	0.11	0.08	-40%	-20%	0%
1A3biii	0.49	0.49	0.41	0.39	0.39	0.36	0.37	0.41	0.34	0.32	0.29	0.25	0.20	0.17	-66%	-17%	1%
1A3biv	0.31	0.18	0.22	0.24	0.21	0.20	0.20	0.27	0.22	0.22	0.17	0.17	0.13	0.13	-59%	-6%	1%
1A3bv	9.78	7.01	4.97	4.38	3.72	2.95	2.20	1.62	1.21	0.87	0.62	0.46	0.34	0.26	-97%	-23%	1%
1A3c	0.06	0.07	0.07	0.07	0.08	0.08	0.06	0.05	0.06	0.06	0.06	0.08	0.08	0.07	12%	-18%	0%
1A3dii	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-3%	-6%	0%
1A4ai	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	9%	14%	0%
1A4bi	14.52	9.86	8.12	7.42	6.74	5.93	5.36	4.60	3.90	3.41	3.11	2.85	3.08	3.05	-79%	-1%	15%
1A4bii	0.41	0.45	0.42	0.41	0.41	0.40	0.40	0.39	0.37	0.33	0.30	0.26	0.22	0.18	-56%	-17%	1%
1A4ci	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	155%	-9%	0%
1A4cii	1.22	1.22	1.22	1.19	1.16	1.13	1.10	1.06	0.97	0.99	0.86	0.77	0.70	0.68	-44%	-4%	3%
1A4ciii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21%	-8%	0%
1A5b	0.06	0.05	0.05	0.05	0.04	0.05	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.04	-29%	-14%	0%
1B1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2ai	0.05	0.10	0.08	0.08	0.07	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.02	0.01	-79%	-31%	0%
1B2aiv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2av	3.32	2.91	2.50	1.85	1.74	1.66	1.53	1.47	1.40	1.26	1.18	1.09	0.94	0.85	-74%	-10%	4%
1B2b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	-3%	0%
1B2c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2A6	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-15%	6%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39%	31%	0%
2B5a	0.38	0.34	0.18	0.05	0.05	0.04	0.04	0.05	0.06	0.07	0.10	0.09	0.09	0.08	-79%	-16%	0%
2C1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-48%	-18%	0%
2D2	1.80	1.85	1.95	1.97	1.90	1.92	1.91	1.92	1.91	1.90	1.90	1.93	1.97	1.99	11%	1%	10%
2D3	0.19	0.17	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-96%	0%	0%
3A1	1.82	1.40	1.42	1.45	1.49	1.60	1.67	1.68	1.70	1.61	1.55	1.44	1.22	1.10	-40%	-10%	5%
3A2	3.08	2.08	1.99	1.89	1.72	1.64	1.61	1.55	1.48	1.44	1.54	1.48	1.19	0.99	-68%	-17%	5%
3A3	0.23	0.18	0.20	0.17	0.20	0.18	0.16	0.16	0.16	0.14	0.17	0.15	0.12	0.10	-55%	-15%	1%
3B1	2.10	1.39	1.28	1.19	1.15	1.07	0.97	0.85	0.81	0.78	0.76	0.77	0.77	0.76	-64%	-2%	4%
3B2	0.19	0.14	0.11	0.11	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.09	-56%	1%	0%
3C	0.65	0.60	0.45	0.40	0.38	0.35	0.34	0.34	0.34	0.33	0.31	0.30	0.29	0.27	-58%	-5%	1%
3D1	0.37	0.40	0.38	0.41	0.39	0.39	0.38	0.39	0.40	0.37	0.38	0.35	0.35	0.32	-14%	-11%	2%
3D2	3.59	3.51	3.38	3.37	3.43	3.51	3.53	3.48	3.51	3.57	3.57	3.64	3.66	3.65	2%	0%	18%

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
3D3	5.31	4.09	3.58	3.25	3.06	2.78	2.62	2.67	2.69	2.72	2.70	2.72	2.70	2.60	-51%	-4%	13%
4F	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6A	0.86	0.67	0.54	0.49	0.45	0.40	0.35	0.31	0.30	0.30	0.30	0.30	0.30	0.31	-64%	3%	2%
6Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-61%	0%	0%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6Cd	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0%	0%	0%
6Ce	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	4%	0%	1%
7A	0.07	0.07	0.05	0.06	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	-39%	0%	0%
Grand Total	68	51	42	39	36	33	30	28	27	25	24	23	22	20	-70%	-9%	100%

Table G.5: Unallocated Non Methane Volatile Organic Compounds (NMVOC) Emissions in the UK, 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of UK Total (2009)
1A1c	0.26	0.37	0.45	0.62	0.47	0.57	0.67	0.58	0.73	0.55	0.37	0.36	0.32	0.40	54%	25%	1%
1B2ai	52.35	53.91	51.06	50.38	53.39	67.43	70.10	52.40	38.72	30.26	32.82	34.19	22.23	19.96	-62%	-10%	46%
1B2av	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	0%	0%	4%
1B2c	38.14	36.93	28.12	23.25	19.67	18.40	22.24	18.76	26.38	17.54	17.64	20.03	18.78	21.13	-45%	12%	49%
Grand Total	93	93	82	76	75	88	95	74	68	50	53	56	43	43	-53%	0%	100%

APPENDIX H: DEVOLVED ADMINISTRATION NH₃ INVENTORIES, 1990-2009

Table H.1 Ammonia Emissions Inventory for England 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-09)	% of England Total (2009)
1A1a	0.02	0.26	0.30	0.44	0.53	0.64	0.63	0.61	0.57	0.56	0.60	0.59	0.67	0.65	2667%	-3%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-95%	-8%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	161%	-28%	0%
1A2fi	0.26	0.23	0.24	0.19	0.19	0.14	0.15	0.14	0.14	0.22	0.34	0.35	0.40	0.23	-11%	-41%	0%
1A2fii	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	-8%	-14%	0%
1A3bi	0.56	5.77	11.70	13.56	19.14	17.75	16.56	15.04	14.01	12.90	11.97	10.95	9.92	9.17	1527%	-8%	5%
1A3bii	0.06	0.09	0.19	0.21	0.28	0.31	0.30	0.28	0.27	0.25	0.26	0.25	0.23	0.21	270%	-9%	0%
1A3biii	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	6%	-7%	0%
1A3biv	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5%	2%	0%
1A4ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12%	-16%	0%
1A4bi	3.08	2.15	1.95	2.08	1.67	1.65	1.31	1.14	1.11	0.95	0.91	1.02	1.09	1.12	-64%	3%	1%
1A4bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20%	1%	0%
1A4ci	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73%	-1%	0%
1A4cii	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	-21%	2%	0%
1A5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100%	-6%	0%
1B1b	0.10	0.08	0.07	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.09	0.09	-10%	0%	0%
1B2aiv	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.05	0.06	0.05	0.04	0.03	0.03	-21%	4%	0%
2A7d	0.36	0.39	0.37	0.31	0.32	0.31	0.26	0.24	0.34	0.40	0.33	0.36	0.32	0.36	1%	12%	0%
2B5a	5.96	5.96	7.46	3.39	2.30	2.43	2.25	2.02	1.88	3.99	3.94	3.75	3.13	2.77	-54%	-12%	1%
2C5e	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-33%	0%	0%
2D1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1%	0%	0%
2D2	0.79	0.84	1.00	1.06	0.91	0.83	0.96	0.92	0.90	0.87	0.74	0.67	0.75	0.83	5%	11%	0%
3D2	1.00	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1%	0%	1%
4B13	17.07	17.07	17.30	17.16	17.14	16.81	16.82	17.25	17.25	17.48	19.89	17.43	17.94	17.94	5%	0%	9%
4B1a	53.12	49.82	47.68	48.14	45.84	44.95	44.85	44.34	43.18	41.66	43.28	42.18	41.50	40.85	-23%	-2%	21%
4B1b	19.18	19.48	25.95	27.92	29.33	27.29	26.23	27.00	27.95	27.74	25.11	26.45	25.96	26.14	36%	1%	13%
4B3	1.81	1.76	1.77	1.79	1.70	1.46	1.41	1.43	1.46	1.43	1.42	1.37	1.38	1.32	-27%	-4%	1%
4B6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
4B8	34.52	32.51	32.28	28.48	25.33	22.36	20.73	18.16	18.48	17.33	17.59	16.49	15.29	14.48	-58%	-5%	7%
4B9a	10.61	9.05	8.16	8.00	7.76	8.04	7.52	7.33	7.23	7.19	7.05	6.35	6.10	6.22	-41%	2%	3%
4B9d	20.17	18.55	22.46	23.95	22.53	23.58	21.41	20.57	20.23	19.16	20.06	17.19	17.25	16.11	-20%	-7%	8%
4D1a	44.16	32.23	22.86	27.18	23.34	26.05	28.83	23.84	29.06	28.65	27.99	31.94	25.60	28.78	-35%	12%	15%
4D2c	15.42	15.86	17.66	17.83	17.77	16.65	16.48	16.53	17.30	17.09	17.39	17.45	17.21	17.19	12%	0%	9%
4F	3.35	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	0.43	0.43	-87%	0%	0%
6A	2.24	2.94	3.20	3.33	3.39	3.35	3.38	3.29	3.14	2.99	2.65	2.46	2.25	1.94	-14%	-14%	1%
6B	4.54	4.92	4.59	4.59	4.59	4.60	4.60	4.60	4.60	4.61	4.61	4.61	4.61	4.61	1%	0%	2%
6Cb	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	118%	12%	0%
6Cc	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6D	0.54	0.55	0.59	0.60	0.62	0.61	0.61	0.61	0.62	0.91	1.09	1.45	1.95	2.69	396%	38%	1%
7A	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.26	0.26	0.25	0.23	0.24	-15%	3%	0%
Grand Total	239	224	231	233	228	223	219	209	213	210	210	205	196	196	-18%	0%	100%

Table H.2 Ammonia Emissions Inventory for Scotland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-09)	% of Scotland Total (2009)
1A1a	0.00	0.04	0.04	0.06	0.08	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.09	2980%	-3%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1A2fi	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.03	0.00	0.00	-87%	-19%	0%
1A2fii	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10%	-14%	0%
1A3bi	0.06	0.59	1.12	1.28	1.86	1.72	1.62	1.48	1.37	1.25	1.17	1.07	0.97	0.89	1507%	-8%	3%
1A3bii	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	298%	-9%	0%
1A3biii	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14%	-6%	0%
1A3biv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16%	2%	0%
1A4ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4%	-16%	0%
1A4bi	0.80	0.44	0.39	0.41	0.34	0.32	0.28	0.24	0.22	0.19	0.24	0.27	0.29	0.29	-63%	3%	1%
1A4bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13%	1%	0%
1A4ci	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47%	-10%	0%
1A4cii	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-20%	2%	0%
1A5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76%	-6%	0%
1B1b	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
1B2aiv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10%	4%	0%
2A7d	0.05	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.05	0.06	0.05	0.05	0.05	0.06	1%	12%	0%
2B5a	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	-64%	31%	0%
2C5e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2D1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5%	1%	0%
2D2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
3D2	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	-5%	0%	0%
4B13	1.96	1.94	1.94	1.92	1.91	1.86	1.84	1.88	1.88	1.90	2.16	1.89	1.94	1.94	-1%	0%	5%
4B1a	6.75	6.45	6.38	6.51	6.26	6.14	6.33	6.33	6.33	6.47	6.91	6.96	6.82	6.73	0%	-1%	19%
4B1b	13.09	13.19	13.40	13.38	13.13	12.33	12.54	12.58	12.65	12.74	12.20	11.95	11.70	11.43	-13%	-2%	32%
4B3	0.90	0.87	0.88	0.88	0.84	0.75	0.75	0.74	0.74	0.72	0.70	0.67	0.64	0.62	-31%	-3%	2%
4B6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
4B8	2.45	2.71	3.00	2.74	2.51	2.62	2.32	2.14	2.03	2.03	1.97	1.82	1.68	1.46	-41%	-13%	4%
4B9a	1.34	1.04	0.81	0.76	0.70	0.79	0.74	0.67	0.76	0.74	0.51	0.56	0.51	0.51	-62%	1%	1%
4B9d	2.55	2.12	2.23	2.27	2.02	2.31	2.12	1.89	2.13	1.98	1.46	1.51	1.43	1.33	-48%	-7%	4%
4D1a	10.87	8.04	4.97	5.63	4.59	5.89	5.32	4.30	4.98	4.30	4.04	3.20	2.72	3.25	-70%	20%	9%
4D2c	5.71	5.75	5.93	5.83	5.68	5.30	5.35	5.34	5.40	5.40	5.33	5.26	5.10	5.02	-12%	-2%	14%
4F	0.51	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.07	0.07	0.07	-87%	0%	0%
6A	0.32	0.41	0.45	0.47	0.48	0.45	0.46	0.44	0.45	0.43	0.41	0.38	0.37	0.30	-5%	-18%	1%
6B	0.48	0.52	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.46	0.46	0.46	0.46	-5%	0%	1%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
6D	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.29	0.33	0.44	0.58	0.79	291%	36%	2%
7A	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	-20%	2%	0%
Grand Total	48	45	43	43	42	42	41	39	40	40	39	37	36	35	-27%	0%	100%

Table H.3: Ammonia Emissions Inventory for Wales 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-09)	% of Wales Total (2009)
1A1a	0.00	0.02	0.02	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.05	3058%	-3%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-99%	-13%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	2%	0%
1A2fi	0.02	0.02	0.03	0.03	0.02	0.08	0.15	0.11	0.07	0.04	0.05	0.04	0.04	0.02	-8%	-50%	0%
1A2fii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-7%	-14%	0%
1A3bi	0.04	0.38	0.71	0.82	1.18	1.09	1.03	0.94	0.88	0.80	0.75	0.69	0.62	0.57	1496%	-9%	2%
1A3bii	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	296%	-9%	0%
1A3biii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2%	-7%	0%
1A3biv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9%	1%	0%
1A4ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-81%	38%	0%
1A4bi	0.57	0.45	0.41	0.44	0.35	0.35	0.27	0.24	0.23	0.20	0.22	0.26	0.28	0.29	-49%	3%	1%
1A4bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16%	1%	0%
1A4ci	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15%	-8%	0%
1A4cii	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	-20%	2%	0%
1A5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57%	-10%	0%
1B1b	0.04	0.03	0.02	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-79%	0%	0%
1B2aiv	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-10%	4%	0%
2A7d	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.04	1%	12%	0%
2B5a	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.03	0.03	0.03	0.01	1%	-58%	0%
2C5e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2D1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14%	0%	0%
2D2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
3D2	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	-3%	0%	0%
4B13	1.76	1.75	1.76	1.74	1.74	1.70	1.70	1.74	1.74	1.76	1.99	1.74	1.79	1.79	2%	0%	7%
4B1a	8.62	8.10	7.99	8.15	7.84	8.16	8.17	8.35	8.58	8.50	9.75	8.02	7.95	7.81	-9%	-2%	30%
4B1b	19.33	18.63	11.68	9.32	6.87	6.83	6.38	6.93	6.99	6.86	6.43	5.89	5.75	5.69	-71%	-1%	22%
4B3	0.99	1.04	1.07	1.08	1.03	0.94	0.95	0.93	0.92	0.88	0.87	0.84	0.77	0.74	-26%	-4%	3%
4B6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
4B8	0.54	0.45	0.40	0.34	0.29	0.16	0.20	0.23	0.15	0.14	0.11	0.10	0.09	0.09	-84%	-4%	0%
4B9a	0.58	0.46	0.51	0.53	0.54	0.49	0.35	0.51	0.46	0.39	0.33	0.52	0.34	0.35	-40%	3%	1%
4B9d	1.10	0.94	1.40	1.58	1.57	1.43	1.00	1.44	1.28	1.04	0.94	1.42	0.95	0.90	-19%	-6%	3%
4D1a	5.12	3.79	2.64	3.13	2.67	3.12	3.03	2.53	2.88	3.32	2.84	2.90	1.99	2.41	-53%	21%	9%
4D2c	7.31	7.36	6.22	5.67	5.09	4.86	4.83	4.93	4.89	4.78	5.00	4.59	4.35	4.28	-41%	-2%	16%
4F	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.01	0.01	-87%	0%	0%
6A	0.16	0.20	0.22	0.23	0.24	0.24	0.24	0.23	0.24	0.23	0.20	0.18	0.17	0.14	-8%	-14%	1%
6B	0.27	0.29	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	-2%	0%	1%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	412%	18%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6D	0.26	0.25	0.21	0.19	0.18	0.18	0.18	0.18	0.18	0.25	0.31	0.38	0.49	0.67	160%	36%	3%
7A	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.01	-18%	2%	0%
Grand Total	47	44	36	34	30	30	29	30	30	30	30	28	26	26	-44%	1%	100%

Table H.4: Ammonia Emissions Inventory for Northern Ireland 1990-2009 (kt)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-09)	% Northern Ireland Total (2009)
1A1a	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	3058%	-3%	0%
1A1c	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1A2fi	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.05	0.04	0.03	0.02	0%	-39%	0%
1A2fii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1%	-14%	0%
1A3bi	0.02	0.24	0.44	0.50	0.75	0.68	0.60	0.53	0.51	0.46	0.42	0.39	0.35	0.33	1364%	-4%	1%
1A3bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	329%	-21%	0%
1A3biii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73%	-4%	0%
1A3biv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30%	2%	0%
1A4ai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-86%	18%	0%
1A4bi	0.62	0.38	0.30	0.27	0.25	0.20	0.20	0.16	0.11	0.09	0.09	0.10	0.10	0.10	-83%	2%	0%
1A4bii	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24%	1%	0%
1A4ci	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23%	-36%	0%
1A4cii	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18%	2%	0%
1A5b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51%	-16%	0%
1B1b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
1B2aiv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10%	4%	0%
2A7d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1%	12%	0%
2B5a	0.16	0.16	0.16	0.16	0.16	0.16	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-100%	0%	0%
2C5e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
2D1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9%	0%	0%
2D2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
3D2	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	4%	0%	0%
4B13	1.08	1.10	1.13	1.11	1.11	1.08	1.09	1.11	1.11	1.13	1.29	1.13	1.17	1.17	8%	0%	4%
4B1a	7.35	7.54	8.08	8.45	8.34	8.94	9.18	9.07	9.14	9.33	10.14	10.00	10.19	10.15	38%	0%	33%
4B1b	9.35	9.84	9.87	9.82	9.59	9.51	9.52	9.55	9.50	9.41	8.56	8.63	8.37	8.21	-12%	-2%	27%
4B3	0.25	0.25	0.25	0.26	0.24	0.23	0.21	0.20	0.20	0.19	0.19	0.18	0.17	0.17	-33%	-4%	1%
4B6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
4B8	3.93	3.36	2.85	2.37	1.98	1.81	1.79	2.00	1.92	1.71	1.58	1.63	1.54	1.58	-60%	3%	5%
4B9a	1.10	1.33	1.07	1.01	0.94	0.88	1.01	1.08	1.06	0.98	0.95	0.91	0.88	0.89	-19%	1%	3%
4B9d	2.09	2.72	2.94	3.01	2.72	2.57	2.88	3.03	2.97	2.62	2.71	2.47	2.49	2.30	10%	-8%	7%
4D1a	3.83	3.31	2.91	3.69	3.36	3.10	2.67	2.74	2.33	2.15	1.94	1.88	1.74	1.84	-52%	5%	6%
4D2c	3.22	3.40	3.53	3.48	3.40	3.38	3.36	3.37	3.36	3.32	3.31	3.32	3.27	3.23	0%	-1%	10%
4F	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.01	0.01	-87%	0%	0%
6A	0.09	0.12	0.13	0.14	0.14	0.14	0.14	0.13	0.14	0.14	0.12	0.12	0.11	0.10	13%	-9%	0%
6B	0.15	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	5%	0%	1%
6Cb	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6%	0%	0%
6Cc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0%	0%	0%
6D	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.18	0.21	0.28	0.37	0.51	346%	36%	2%
7A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-12%	3%	0%
Grand Total	33	34	34	35	33	33	33	33	33	32	32	31	31	31	-8%	-1%	100%

Table H.5: Unallocated Ammonia Emissions in the UK, 1990-2009 (kt)

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APPENDIX I: DEVOLVED ADMINISTRATION LEAD INVENTORIES, 1990-2009

Table I.1 Lead Emissions Inventory for England 1990-2009 (tonnes)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of England Total (2009)
1A1a	0.115	0.106	0.018	0.014	0.014	0.011	0.010	0.010	0.012	0.010	0.009	0.002	0.002	0.002	-99%	1%	4%
1A1b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.001	0.001	0.001	141%	-14%	2%
1A1c	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-95%	-8%	0%
1A2a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-54%	-4%	0%
1A2fi	0.019	0.018	0.016	0.014	0.013	0.014	0.013	0.013	0.014	0.012	0.009	0.010	0.009	0.009	-55%	-5%	19%
1A2fii	0.012	0.007	0.004	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-95%	-14%	1%
1A3ai(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	77%	-5%	0%
1A3aii(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7%	-14%	0%
1A3bi	1.636	0.818	0.454	0.240	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-100%	-2%	2%
1A3bii	0.152	0.059	0.027	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	-3%	0%
1A3biii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-7%	-8%	1%
1A3biv	0.015	0.006	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	2%	0%
1A3c	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34%	1%	0%
1A3dii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-23%	-6%	0%
1A4ai	0.028	0.013	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-97%	24%	2%
1A4bi	0.010	0.006	0.006	0.006	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	-76%	0%	5%
1A4bii	0.006	0.004	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	2%	0%
1A4ci	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-96%	-90%	0%
1A4cii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-29%	2%	0%
1A4ciii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-23%	-9%	0%
1A5b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-35%	-7%	0%
1B1b	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-35%	-22%	4%
2A7a	0.001	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
2A7d	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	-80%	2%	0%
2B5a	0.093	0.080	0.085	0.026	0.011	0.013	0.010	0.013	0.014	0.013	0.004	0.003	0.003	0.004	-96%	12%	8%
2C1	0.044	0.045	0.041	0.037	0.035	0.034	0.029	0.031	0.023	0.027	0.026	0.026	0.024	0.017	-62%	-30%	38%
2C3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.001	316%	7%	2%
2C5a	0.015	0.010	0.007	0.008	0.009	0.009	0.005	0.001	0.003	0.001	0.003	0.005	0.001	0.000	-97%	-68%	1%
2C5b	0.006	0.006	0.006	0.005	0.005	0.008	0.009	0.006	0.003	0.001	0.001	0.002	0.001	0.001	-74%	27%	3%
2C5d	0.024	0.025	0.012	0.010	0.008	0.008	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
2C5e	0.060	0.039	0.019	0.012	0.008	0.007	0.007	0.007	0.006	0.006	0.005	0.004	0.004	0.002	-97%	-58%	4%
6Ca	0.007	0.006	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	-93%	0%	1%
6Cb	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-94%	0%	0%
6Cc	0.222	0.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
Grand Total	2.47	1.32	0.71	0.40	0.12	0.12	0.11	0.09	0.09	0.08	0.07	0.06	0.06	0.04	-98%	-20%	100%

Table I.2 Lead Emissions Inventory for Scotland 1990-2009 (tonnes)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Scotland Total (2009)
1A1a	0.011	0.007	0.002	0.002	0.003	0.003	0.002	0.001	0.004	0.002	0.001	0.001	0.000	0.000	-96%	104%	14%
1A1b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-22%	-6%	6%
1A1c	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
1A2a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
1A2fi	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	-54%	5%	31%
1A2fii	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-95%	-14%	2%
1A3ai(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	86%	-8%	0%
1A3aii(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	71%	-13%	0%
1A3bi	0.155	0.075	0.041	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	-2%	2%
1A3bii	0.015	0.006	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	-3%	1%
1A3biii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	-7%	1%
1A3biv	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	3%	0%
1A3c	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	28%	5%	1%
1A3dii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-48%	-6%	1%
1A4ai	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-93%	29%	3%
1A4bi	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-77%	-2%	23%
1A4bii	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	2%	0%
1A4ci	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-94%	-85%	0%
1A4cii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-28%	2%	2%
1A4ciii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-48%	-8%	0%
1A5b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-33%	-7%	0%
1B1b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
2A7a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
2A7d	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-85%	4%	1%
2B5a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
2C1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	15%	1%
2C3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	316%	7%	1%
2C5a	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-98%	-68%	0%
2C5b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-77%	23%	2%
2C5d	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
2C5e	0.005	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	-97%	-61%	4%
6Ca	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-94%	0%	1%
6Cb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-15%	0%	0%
6Cc	0.007	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
Grand Total	0.210	0.102	0.053	0.031	0.008	0.008	0.007	0.006	0.008	0.005	0.005	0.003	0.003	0.003	-99%	1%	100%

Table I.3 Lead Emissions Inventory for Wales 1990-2009 (tonnes)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Wales Total (2009)
1A1a	0.004	0.002	0.001	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	-97%	89%	1%
1A1b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	374%	-7%	3%
1A1c	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-99%	-13%	0%
1A2a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-58%	2%	0%
1A2fi	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.003	0.008	0.003	0.001	0.001	0.001	0.001	-56%	12%	8%
1A2fii	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-95%	-14%	0%
1A3ai(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	115%	-18%	0%
1A3aii(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	32%	-26%	0%
1A3bi	0.100	0.049	0.026	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	-3%	0%
1A3bii	0.010	0.004	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	-2%	0%
1A3biii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-13%	-7%	0%
1A3biv	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	2%	0%
1A3c	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21%	-5%	0%
1A3dii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-27%	2%	0%
1A4ai	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-85%	31%	1%
1A4bi	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.001	-68%	0%	5%
1A4bii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	1%	0%
1A4ci	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-95%	-88%	0%
1A4cii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-29%	2%	0%
1A4ciii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-27%	0%	0%
1A5b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-54%	-8%	0%
1B1b	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	-76%	83%	3%
2A7a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
2A7d	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	223%	4%	0%
2B5a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	-69%	-59%	0%
2C1	0.012	0.014	0.016	0.015	0.015	0.010	0.006	0.010	0.014	0.015	0.011	0.010	0.010	0.008	-30%	-20%	72%
2C3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	316%	7%	3%
2C5a	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-93%	-68%	0%
2C5b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-87%	-2%	0%
2C5d	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
2C5e	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-97%	-61%	0%
6Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-94%	0%	0%
6Cb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-77%	0%	0%
6Cc	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
Grand Total	0.136	0.077	0.051	0.037	0.023	0.017	0.013	0.017	0.024	0.021	0.015	0.014	0.013	0.011	-92%	-14%	100%

Table I.4 Lead Emissions Inventory for Northern Ireland 1990-2009 (tonnes)

NFR Code	1990	1995	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	% Change (1990-2009)	% Change (2008-2009)	% of Northern Ireland Total (2009)
1A1a	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-99%	-20%	2%
1A1b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
1A1c	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
1A2a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
1A2fi	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-50%	4%	43%
1A2fii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-95%	-14%	2%
1A3ai(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	426%	-27%	0%
1A3aii(i)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25%	-7%	0%
1A3bi	0.061	0.029	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	3%	3%
1A3bii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-97%	-20%	0%
1A3biii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	45%	-5%	1%
1A3biv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	2%	0%
1A3c	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	56%	-11%	0%
1A3dii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-21%	-6%	1%
1A4ai	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-88%	12%	5%
1A4bi	0.003	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.000	-81%	-5%	37%
1A4bii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	2%	0%
1A4ci	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-95%	-87%	0%
1A4cii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-27%	2%	3%
1A4ciii	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-21%	-8%	0%
1A5b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-33%	-10%	0%
1B1b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
2A7a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
2A7d	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-99%	4%	0%
2B5a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
2C1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
2C3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	316%	7%	0%
2C5a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-95%	-68%	0%
2C5b	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-79%	15%	1%
2C5d	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-100%	0%	0%
2C5e	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-97%	-61%	0%
6Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-93%	0%	1%
6Cb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-7%	0%	0%
6Cc	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0%	0%	0%
Grand Total	0.071	0.035	0.019	0.011	0.003	0.003	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	-98%	-2%	100%

Table I.5: Unallocated Lead Emissions in the UK, 1990-2009 (tonnes)

This page intentionally left blank; there are no reported “Unallocated” (i.e. offshore) lead emission sources in the UK inventory.