

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1990

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	2,881.5591	0.5919	0.0041	0.1471	5.1795
A. Forest Land	-12,202.5700	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-12,202.5700	NE,NO	NE,NO	NO	NO
B. Cropland	15,836.0403	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	1,009.6086	NA	NA	NO	NO
2. Land converted to Cropland	14,033.9810	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,200.2472	0.1465	0.0010	0.0364	1.2822
1. Grassland remaining Grassland	389.5392	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-7,227.7822	0.1465	0.0010	0.0364	1.2822
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,904.2192	0.4454	0.0031	0.1107	3.8973
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,802.1461	IE	IE	0.1107	3.8973
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-1,455.8832	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-1,455.8832	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	318.7972	0.5919	0.0041	0.1471	5.1795
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1990
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,216.4860	1.1211	IE,NO	1.1211	0.1910	0.1894	2,484.9565	IE,NO	2,484.9565	423.2505	419.7666		
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,394.4860	1.7820	IE,NO	1.7820	0.3035	0.3010	2,484.9565	IE,NO	2,484.9565	423.2505	419.7666		
2.1 Cropland converted to Forest Land		81.7096	1.4910	IE	1.4910	0.2936	0.4990	121.8311	IE	121.8311	23.9863	40.7768		
	England pre-1990	53.4582	1.2387	IE	1.2387	0.2940	0.7324	66.2193	IE	66.2193	15.7158	39.1516		
	Scotland pre-1990	23.2287	2.1460	IE	2.1460	0.2795	0.0996	49.8498	IE	49.8498	6.4918	2.3139		
	Wales pre-1990	3.0016	0.8969	IE	0.8969	0.4691	0.7440	2.6922	IE	2.6922	1.4082	2.2331		
	Northern Ireland pre-	0.2230	2.2710	IE	2.2710	0.3436	0.5048	0.5064	IE	0.5064	0.0766	0.1126		
	England post-1990	0.4427	2.5710	IE	2.5710	0.3065	-2.4034	1.1381	IE	1.1381	0.1357	-1.0639		
	Scotland post-1990	1.2856	1.0461	IE	1.0461	0.1161	-1.4806	1.3448	IE	1.3448	0.1492	-1.9035		
	Wales post-1990	0.0683	1.0789	IE	1.0789	0.1224	-0.8525	0.0737	IE	0.0737	0.0084	-0.0582		
	Northern Ireland post	0.0016	4.3086	IE	4.3086	0.4575	-5.5488	0.0068	IE	0.0068	0.0007	-0.0088		
2.2 Grassland converted to Forest Land		1,282.6243	1.7977	IE	1.7977	0.3045	0.2905	2,305.7697	IE	2,305.7697	390.5752	372.6595		
	England pre-1990	269.1861	1.2387	IE	1.2387	0.2940	0.7324	333.4438	IE	333.4438	79.1359	197.1460		
	Scotland pre-1990	773.0587	2.1460	IE	2.1460	0.2795	0.0996	1,659.0154	IE	1,659.0154	216.0503	77.0087		
	Wales pre-1990	147.8824	0.8969	IE	0.8969	0.4691	0.7440	132.6411	IE	132.6411	69.3782	110.0227		
	Northern Ireland pre-	65.0070	2.2710	IE	2.2710	0.3436	0.5048	147.6308	IE	147.6308	22.3340	32.8178		
	England post-1990	1.1634	2.5710	IE	2.5710	0.3065	-2.4034	2.9910	IE	2.9910	0.3565	-2.7960		
	Scotland post-1990	24.7178	1.0461	IE	1.0461	0.1161	-1.4806	25.8566	IE	25.8566	2.8687	-36.5982		
	Wales post-1990	0.8486	1.0789	IE	1.0789	0.1224	-0.8525	0.9155	IE	0.9155	0.1038	-0.7234		
	Northern Ireland post	0.7604	4.3075	IE	4.3075	0.4572	-5.5471	3.2755	IE	3.2755	0.3477	-4.2181		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		30.1521	1.9022	IE,NO	1.9022	0.2882	0.2099	57.3557	IE,NO	57.3557	8.6890	6.3303		
	England pre-1990	6.0357	1.2387	IE	1.2387	0.2940	0.7324	7.4765	IE	7.4765	1.7744	4.4204		
	Scotland pre-1990	22.1996	2.1460	IE	2.1460	0.2795	0.0996	47.6412	IE	47.6412	6.2042	2.2114		
	Wales pre-1990	1.2340	0.8969	IE	0.8969	0.4691	0.7440	1.1069	IE	1.1069	0.5789	0.9181		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	0.2720	2.5710	IE	2.5710	0.3065	-2.4034	0.6992	IE	0.6992	0.0833	-0.6536		
	Scotland post-1990	0.3437	1.0461	IE	1.0461	0.1161	-1.4806	0.3595	IE	0.3595	0.0399	-0.5088		
	Wales post-1990	0.0671	1.0789	IE	1.0789	0.1224	-0.8525	0.0724	IE	0.0724	0.0082	-0.0572		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 1990
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
						(Mg C/ha)						(Gg C)
B. Total Cropland		9,871.2147	0.0177	-0.0067	0.0110	IE,NO	-0.4266	174.6522	-66.4268	108.2254	IE,NO	-4.211,0225
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0754	174.6522	NA,NO	174.6522	IE,NO	-450.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-3.0000	NA	NA	NA	IE	-450.0000
2. Land converted to Cropland ⁽⁶⁾		3,899.4744	IE,NO	-0.0170	-0.0170	IE,NO	-0.9645	IE,NO	-66.4268	-66.4268	IE,NO	-3,761.0225
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0454	IE,NO	IE,NO	IE,NO	IE	-3.2565
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0454	NO	NO	NO	IE	-3.2565
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		3,755.3683	IE,NO	-0.0174	-0.0174	IE	-1.0158	IE,NO	-65.1911	-65.1911	IE	-3,814.6249
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.5674	NO	NO	NO	IE	-1,470.1713
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-2.4994	NO	NO	NO	IE	-1,557.1075
	Wales pre-1990	236.9229	NO	NO	NO	IE	-1.0254	NO	NO	NO	IE	-242.9460
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.5738	NO	NO	NO	IE	-328.0195
	England post-1990	62.8788	IE	-0.8228	-0.8228	IE	-1.2630	IE	-51.7356	-51.7356	IE	-79.4128
	Scotland post-1990	21.4038	IE	-0.2463	-0.2463	IE	-4.9273	IE	-5.2711	-5.2711	IE	-105.4627
	Wales post-1990	7.9511	IE	-0.6704	-0.6704	IE	-2.0608	IE	-5.3305	-5.3305	IE	-16.3854
	Northern Ireland post-1990	3.7146	IE	-0.7683	-0.7683	IE	-4.0704	IE	-2.8539	-2.8539	IE	-15.1198
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		72.3978	IE,NO	-0.0171	-0.0171	IE,NO	0.7854	IE,NO	-1.2357	-1.2357	IE,NO	56.8589
	England pre-1990	46.8545	NO	NO	NO	IE	0.7765	NO	NO	NO	IE	36.3817
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7810	NO	NO	NO	IE	18.7178
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.8362	NO	NO	NO	IE	0.5306
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	0.6259	IE	-1.2673	-1.2673	IE	1.4430	IE	-0.7932	-0.7932	IE	0.9031
	Scotland post-1990	0.2706	IE	-1.4125	-1.4125	IE	0.9812	IE	-0.3823	-0.3823	IE	0.2655
	Wales post-1990	0.0459	IE	-1.3115	-1.3115	IE	1.3105	IE	-0.0602	-0.0602	IE	0.0602
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS				EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,241.2829	0.0178	-0.0011	0.0167	IE,NO	0.5615	57.8156	-3.7034	54.1123	IE,NO	1,820.0215
1. Grassland remaining Grassland		8,1140	NE	NE	NE	IE,NO	-13.0932	NE	NE	NE	IE,NO	-106.2380
	England peat extraction	5,4401	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-62.2136
	Scotland peat extraction	1,4279	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-16.3296
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1,2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,233.1689	0.0179	-0.0011	0.0167	IE,NO	0.5958	57.8156	-3.7034	54.1123	IE,NO	1,926.2595
2.1 Forest Land converted to Grassland		341.5162	IE,NO	IE,NO	IE,NO	IE	-0.0775	IE,NO	IE,NO	IE,NO	IE	-26.4637
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0741	NO	NO	NO	IE	-25.2843
	UK post-1990	0.2120	IE	IE	IE	IE	-5.5635	IE	IE	IE	IE	-1.1795
2.2 Cropland converted to Grassland		2,756.2566	0.0210	IE,NO	0.0210	IE	0.6294	57.8156	IE,NO	57.8156	IE	1,734.7302
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.4471	NO	NO	NO	IE	693.4407
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7768	NO	NO	NO	IE	527.7148
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.7699	NO	NO	NO	IE	111.1960
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	1.1240	NO	NO	NO	IE	335.0786
	England post-1990	55.2513	0.8231	IE	0.8231	IE	0.6284	45.4777	IE	45.4777	IE	34.7206
	Scotland post-1990	16.8388	0.2464	IE	0.2464	IE	0.9015	4.1490	IE	4.1490	IE	15.1795
	Wales post-1990	5.4858	0.6707	IE	0.6707	IE	0.9975	3.6791	IE	3.6791	IE	5.4720
	Northern Ireland post-1990	5.8716	0.7681	IE	0.7681	IE	2.0315	4.5098	IE	4.5098	IE	11.9280
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		135.3961	IE,NO	-0.0274	-0.0274	IE,NO	1.6100	IE,NO	-3.7034	-3.7034	IE,NO	217.9930
	England pre-1990	63.0327	NO	NO	NO	IE	1.5572	NO	NO	NO	IE	98.1540
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.5863	NO	NO	NO	IE	95.4458
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.8748	NO	NO	NO	IE	14.1246
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	3.3975	IE	-0.7677	-0.7677	IE	2.1596	IE	-2.6081	-2.6081	IE	7.3373
	Scotland post-1990	0.6759	IE	-0.9130	-0.9130	IE	1.9318	IE	-0.6171	-0.6171	IE	1.3056
	Wales post-1990	0.5891	IE	-0.8117	-0.8117	IE	2.7593	IE	-0.4782	-0.4782	IE	1.6256
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.2 Cropland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.3 Grassland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

Settlements⁽¹⁾

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(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
E. Total Settlements		992.5982	0.0139	IE,NO	0.0139	IE,NO	-1.8829	13.7870	IE,NO	13.7870	IE,NO	-1,868.9178		
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Settlements ⁽⁶⁾		992.5982	0.0139	IE,NO	0.0139	IE,NO	-1.8829	13.7870	IE,NO	13.7870	IE,NO	-1,868.9178		
2.1 Forest Land converted to Settlements		51.8739	IE,NO	IE,NO	IE,NO	IE	-0.3899	IE,NO	IE,NO	IE,NO	IE	-20.2279		
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.3249	NO	NO	NO	IE	-16.6428		
	UK post-1990	0.6444	IE	IE	IE	IE	-5.5635	IE	IE	IE	IE	-3.5851		
2.2 Cropland converted to Settlements		265.6472	0.0119	IE,NO	0.0119	IE	-1.1540	3.1691	IE,NO	3.1691	IE	-306.5456		
	England pre-1990	225.3365	NO	NO	NO	IE	-1.0656	NO	NO	NO	IE	-240.1073		
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.5190	NO	NO	NO	IE	-44.1089		
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.7336	NO	NO	NO	IE	-11.6809		
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-1.4622	NO	NO	NO	IE	-3.0110		
	England post-1990	2.1288	1.2726	IE	1.2726	IE	-2.9519	2.7091	IE	2.7091	IE	-6.2839		
	Scotland post-1990	0.1228	1.4181	IE	1.4181	IE	-3.6694	0.1741	IE	0.1741	IE	-0.4504		
	Wales post-1990	0.1826	1.3122	IE	1.3122	IE	-4.0115	0.2396	IE	0.2396	IE	-0.7326		
	Northern Ireland post-1990	0.0406	1.1416	IE	1.1416	IE	-4.2057	0.0463	IE	0.0463	IE	-0.1706		
2.3 Grassland converted to Settlements		675.0771	0.0157	IE,NO	0.0157	IE	-2.2844	10.6179	IE,NO	10.6179	IE	-1,542.1443		
	England pre-1990	445.9785	NO	NO	NO	IE	-1.7104	NO	NO	NO	IE	-762.8166		
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-3.9340	NO	NO	NO	IE	-396.9901		
	Wales pre-1990	71.4919	NO	NO	NO	IE	-2.3644	NO	NO	NO	IE	-169.0351		
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-3.1811	NO	NO	NO	IE	-137.5249		
	England post-1990	8.4613	0.7689	IE	0.7689	IE	-4.1821	6.5058	IE	6.5058	IE	-35.3854		
	Scotland post-1990	2.2210	0.9119	IE	0.9119	IE	-10.2815	2.0253	IE	2.0253	IE	-22.8352		
	Wales post-1990	1.7763	0.8122	IE	0.8122	IE	-5.2139	1.4427	IE	1.4427	IE	-9.2611		
	Northern Ireland post-1990	1.0038	0.6416	IE	0.6416	IE	-8.2646	0.6441	IE	0.6441	IE	-8.2959		
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.

(6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

Other land⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

Direct N₂O emissions from N fertilization ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

N₂O emissions from drainage of soils ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

Carbon emissions from agricultural lime application ⁽¹⁾

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(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	3,144,000.0000	0.1241	390.1218
B. Cropland ⁽⁴⁾	1,741,739.4297	0.1241	216.1229
Limestone CaCO ₃	1,044,268.0741	0.1200	125.3122
Dolomite CaMg(CO ₃) ₂	697,471.3556	0.1302	90.8108
C. Grassland ⁽⁴⁾	1,402,260.5703	0.1241	173.9989
Limestone CaCO ₃	840,731.9259	0.1200	100.8878
Dolomite CaMg(CO ₃) ₂	561,528.6444	0.1302	73.1110
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1990

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	82,214,476.5595	0.0016	0.0000	0.0000	135.6539	0.5919	0.0041
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	20,352,000.0000	0.0017	0.0000	0.0000	33.5808	0.1465	0.0010
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	20,352,000.0000	0.0017	0.0000	0.0000	33.5808	0.1465	0.0010
<i>Controlled Burning</i>	Biomass burned	kg dm	20,352,000.0000	0.0017	0.0000	0.0000	33.5808	0.1465	0.0010
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	61,862,476.5595	0.0016	0.0000	0.0000	102.0731	0.4454	0.0031
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1991

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	2,754.5456	0.5587	0.0038	0.1388	4.8889
A. Forest Land	-12,714.6301	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-12,714.6301	NE,NO	NE,NO	NO	NO
B. Cropland	15,995.5301	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	972.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,048.1452	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,151.9332	0.1564	0.0011	0.0389	1.3689
1. Grassland remaining Grassland	396.2563	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-7,345.6970	0.1564	0.0011	0.0389	1.3689
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,835.7741	0.4023	0.0028	0.1000	3.5201
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,743.5819	IE	IE	0.1000	3.5201
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-1,210.1952	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-1,210.1952	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	318.5280	0.5587	0.0038	0.1388	4.8889
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1991
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,237.6270	1.1697	IE,NO	1.1697	0.1770	0.2031	2,617.2490	IE,NO	2,617.2490	395.9916	454.3858
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,415.6270	1.8488	IE,NO	1.8488	0.2797	0.3210	2,617.2490	IE,NO	2,617.2490	395.9916	454.3858
2.1 Cropland converted to Forest Land		83.3431	1.5576	IE	1.5576	0.2723	0.4633	129.8123	IE	129.8123	22.6913	38.6155
	England pre-1990	53.4582	1.3026	IE	1.3026	0.2728	0.7300	69.6337	IE	69.6337	14.5837	39.0232
	Scotland pre-1990	23.2287	2.2037	IE	2.2037	0.2644	0.2344	51.1896	IE	51.1896	6.1415	5.4445
	Wales pre-1990	3.0016	1.1060	IE	1.1060	0.3784	0.7489	3.3196	IE	3.3196	1.1358	2.2479
	Northern Ireland pre-	0.2230	2.2647	IE	2.2647	0.3400	0.5591	0.5049	IE	0.5049	0.0758	0.1247
	England post-1990	1.2825	1.9611	IE	1.9611	0.2845	-2.3911	2.5152	IE	2.5152	0.3649	-3.0667
	Scotland post-1990	2.0309	1.2350	IE	1.2350	0.1814	-2.4587	2.5080	IE	2.5080	0.3684	-4.9934
	Wales post-1990	0.1132	1.1468	IE	1.1468	0.1719	-1.2644	0.1299	IE	0.1299	0.0195	-0.1432
	Northern Ireland post	0.0050	2.2740	IE	2.2740	0.3331	-4.2854	0.0114	IE	0.0114	0.0017	-0.0215
2.2 Grassland converted to Forest Land		1,301.3725	1.8649	IE	1.8649	0.2805	0.3140	2,426.9450	IE	2,426.9450	364.9756	408.5965
	England pre-1990	269.1861	1.3026	IE	1.3026	0.2728	0.7300	350.6371	IE	350.6371	73.4356	196.4991
	Scotland pre-1990	773.0587	2.2037	IE	2.2037	0.2644	0.2344	1,703.6031	IE	1,703.6031	204.3906	181.1954
	Wales pre-1990	147.8824	1.1060	IE	1.1060	0.3784	0.7489	163.5511	IE	163.5511	55.9569	110.7479
	Northern Ireland pre-	65.0070	2.2647	IE	2.2647	0.3400	0.5591	147.2196	IE	147.2196	22.1041	36.3443
	England post-1990	3.3705	1.9611	IE	1.9611	0.2845	-2.3911	6.6099	IE	6.6099	0.9590	-8.0593
	Scotland post-1990	39.0473	1.2350	IE	1.2350	0.1814	-2.4587	48.2215	IE	48.2215	7.0834	-96.0071
	Wales post-1990	1.4065	1.1468	IE	1.1468	0.1719	-1.2644	1.6130	IE	1.6130	0.2418	-1.7785
	Northern Ireland post	2.4140	2.2741	IE	2.2741	0.3332	-4.2856	5.4897	IE	5.4897	0.8043	-10.3453
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		30.9114	1.9569	IE,NO	1.9569	0.2693	0.2321	60.4917	IE,NO	60.4917	8.3247	7.1738
	England pre-1990	6.0357	1.3026	IE	1.3026	0.2728	0.7300	7.8620	IE	7.8620	1.6466	4.4059
	Scotland pre-1990	22.1996	2.2037	IE	2.2037	0.2644	0.2344	48.9216	IE	48.9216	5.8694	5.2033
	Wales pre-1990	1.2340	1.1060	IE	1.1060	0.3784	0.7489	1.3648	IE	1.3648	0.4669	0.9242
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	0.7879	1.9611	IE	1.9611	0.2845	-2.3911	1.5452	IE	1.5452	0.2242	-1.8841
	Scotland post-1990	0.5429	1.2350	IE	1.2350	0.1814	-2.4587	0.6704	IE	0.6704	0.0985	-1.3348
	Wales post-1990	0.1112	1.1468	IE	1.1468	0.1719	-1.2644	0.1276	IE	0.1276	0.0191	-0.1407
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
						(Mg C/ha)			(Gg C)			
B. Total Cropland		9,968.1053	0.0175	-0.0067	0.0109	IE,NO	-0.4218	174.6522	-66.4268	108.2254	IE,NO	-4,204.8855
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0737	174.6522	NA,NO	174.6522	IE,NO	-440.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.9333	NA	NA	NA	IE	-440.0000
2. Land converted to Cropland ⁽⁶⁾		3,996.3650	IE,NO	-0.0166	-0.0166	IE,NO	-0.9421	IE,NO	-66.4268	-66.4268	IE,NO	-3,764.8855
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0430	IE,NO	IE,NO	IE,NO	IE	-3.0823
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0430	NO	NO	NO	IE	-3.0823
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		3,851.3165	IE,NO	-0.0169	-0.0169	IE	-0.9915	IE,NO	-65.1911	-65.1911	IE	-3,818.6172
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.5361	NO	NO	NO	IE	-1,388.9995
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-2.3597	NO	NO	NO	IE	-1,470.0359
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.9682	NO	NO	NO	IE	-229.3773
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.4881	NO	NO	NO	IE	-310.1433
	England post-1990	125.7575	IE	-0.4114	-0.4114	IE	-1.2259	IE	-51.7356	-51.7356	IE	-154.1677
	Scotland post-1990	42.8075	IE	-0.1231	-0.1231	IE	-4.7826	IE	-5.2711	-5.2711	IE	-204.7325
	Wales post-1990	15.9023	IE	-0.3352	-0.3352	IE	-2.0003	IE	-5.3305	-5.3305	IE	-31.8089
	Northern Ireland post-1990	7.4291	IE	-0.3842	-0.3842	IE	-3.9510	IE	-2.8539	-2.8539	IE	-29.3522
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		73.3402	IE,NO	-0.0168	-0.0168	IE,NO	0.7747	IE,NO	-1.2357	-1.2357	IE,NO	56.8139
	England pre-1990	46.8545	NO	NO	NO	IE	0.7546	NO	NO	NO	IE	35.3550
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7727	NO	NO	NO	IE	18.5176
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.8122	NO	NO	NO	IE	0.5153
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	1.2518	IE	-0.6337	-0.6337	IE	1.4213	IE	-0.7932	-0.7932	IE	1.7791
	Scotland post-1990	0.5413	IE	-0.7062	-0.7062	IE	0.9759	IE	-0.3823	-0.3823	IE	0.5282
	Wales post-1990	0.0919	IE	-0.6557	-0.6557	IE	1.2910	IE	-0.0602	-0.0602	IE	0.1186
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,329.5672	0.0174	-0.0011	0.0163	IE,NO	0.5559	57.8156	-3.7034	54.1123	IE,NO	1,850.9673
1. Grassland remaining Grassland		8.2742	NE	NE	NE	IE,NO	-13.0611	NE	NE	NE	IE,NO	-108.0699
	England peat extraction	5.8544	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-66.9514
	Scotland peat extraction	1.1738	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-13.4237
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,321.2931	0.0174	-0.0011	0.0163	IE,NO	0.5898	57.8156	-3.7034	54.1123	IE,NO	1,959.0372
2.1 Forest Land converted to Grassland		341.5306	IE,NO	IE,NO	IE,NO	IE	-0.0775	IE,NO	IE,NO	IE,NO	IE	-26.4818
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0700	NO	NO	NO	IE	-23.8921
	UK post-1990	0.2263	IE	IE	IE	IE	-11.4422	IE	IE	IE	IE	-2.5897
2.2 Cropland converted to Grassland		2,839.7039	0.0204	IE,NO	0.0204	IE	0.6204	57.8156	IE,NO	57.8156	IE	1,761.8127
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.4342	NO	NO	NO	IE	673.3420
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7685	NO	NO	NO	IE	522.0527
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.7474	NO	NO	NO	IE	107.9436
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	1.0922	NO	NO	NO	IE	325.5954
	England post-1990	110.5025	0.4116	IE	0.4116	IE	0.6190	45.4777	IE	45.4777	IE	68.4036
	Scotland post-1990	33.6775	0.1232	IE	0.1232	IE	0.8966	4.1490	IE	4.1490	IE	30.1942
	Wales post-1990	10.9715	0.3353	IE	0.3353	IE	0.9826	3.6791	IE	3.6791	IE	10.7806
	Northern Ireland post-1990	11.7431	0.3840	IE	0.3840	IE	2.0012	4.5098	IE	4.5098	IE	23.5005
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		140.0586	IE,NO	-0.0264	-0.0264	IE,NO	1.5972	IE,NO	-3.7034	-3.7034	IE,NO	223.7064
	England pre-1990	63.0327	NO	NO	NO	IE	1.5121	NO	NO	NO	IE	95.3104
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.5694	NO	NO	NO	IE	94.4237
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.8207	NO	NO	NO	IE	13.7169
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	6.7950	IE	-0.3838	-0.3838	IE	2.1274	IE	-2.6081	-2.6081	IE	14.4557
	Scotland post-1990	1.3518	IE	-0.4565	-0.4565	IE	1.9213	IE	-0.6171	-0.6171	IE	2.5971
	Wales post-1990	1.1783	IE	-0.4059	-0.4059	IE	2.7181	IE	-0.4782	-0.4782	IE	3.2026
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.2 Cropland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.3 Grassland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.4 Settlements converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.5 Other Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

Settlements⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS				EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
E. Total Settlements		1,008.4728	0.0137	IE,NO	0.0137	IE,NO	-1.8374	13.7870	IE,NO	13.7870	IE,NO	-1,852.9457
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,008.4728	0.0137	IE,NO	0.0137	IE,NO	-1.8374	13.7870	IE,NO	13.7870	IE,NO	-1,852.9457
2.1 Forest Land converted to Settlements		51.8116	IE,NO	IE,NO	IE,NO	IE	-0.4321	IE,NO	IE,NO	IE,NO	IE	-22.3862
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.3070	NO	NO	NO	IE	-15.7266
	UK post-1990	0.5820	IE	IE	IE	IE	-11.4422	IE	IE	IE	IE	-6.6596
2.2 Cropland converted to Settlements		268.1219	0.0118	IE,NO	0.0118	IE	-1.1094	3.1691	IE,NO	3.1691	IE	-297.4671
	England pre-1990	225.3365	NO	NO	NO	IE	-1.0077	NO	NO	NO	IE	-227.0674
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.4357	NO	NO	NO	IE	-41.6902
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.6379	NO	NO	NO	IE	-11.0361
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-1.3831	NO	NO	NO	IE	-2.8481
	England post-1990	4.2575	0.6363	IE	0.6363	IE	-2.8650	2.7091	IE	2.7091	IE	-12.1977
	Scotland post-1990	0.2455	0.7090	IE	0.7090	IE	-3.5614	0.1741	IE	0.1741	IE	-0.8743
	Wales post-1990	0.3653	0.6561	IE	0.6561	IE	-3.8940	0.2396	IE	0.2396	IE	-1.4223
	Northern Ireland post-1990	0.0811	0.5708	IE	0.5708	IE	-4.0820	0.0463	IE	0.0463	IE	-0.3311
2.3 Grassland converted to Settlements		688.5394	0.0154	IE,NO	0.0154	IE	-2.2266	10.6179	IE,NO	10.6179	IE	-1,533.0924
	England pre-1990	445.9785	NO	NO	NO	IE	-1.6166	NO	NO	NO	IE	-720.9621
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-3.7192	NO	NO	NO	IE	-375.3187
	Wales pre-1990	71.4919	NO	NO	NO	IE	-2.2336	NO	NO	NO	IE	-159.6824
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-3.0075	NO	NO	NO	IE	-130.0214
	England post-1990	16.9225	0.3844	IE	0.3844	IE	-4.0592	6.5058	IE	6.5058	IE	-68.6921
	Scotland post-1990	4.4420	0.4559	IE	0.4559	IE	-9.9803	2.0253	IE	2.0253	IE	-44.3327
	Wales post-1990	3.5525	0.4061	IE	0.4061	IE	-5.0608	1.4427	IE	1.4427	IE	-17.9783
	Northern Ireland post-1990	2.0076	0.3208	IE	0.3208	IE	-8.0220	0.6441	IE	0.6441	IE	-16.1046
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.

(6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

Carbon emissions from agricultural lime application ⁽¹⁾

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(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	3,849,000.0000	0.1256	483.2592
B. Cropland ⁽⁴⁾	2,116,668.1313	0.1256	265.7572
Limestone CaCO ₃	964,021.6249	0.1200	115.6826
Dolomite CaMg(CO ₃) ₂	1,152,646.5064	0.1302	150.0746
C. Grassland ⁽⁴⁾	1,732,331.8687	0.1256	217.5020
Limestone CaCO ₃	788,978.3751	0.1200	94.6774
Dolomite CaMg(CO ₃) ₂	943,353.4936	0.1302	122.8246
G. Other (please specify) ^{(4), (5)}			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1991

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	77,602,060.5053	0.0017	0.0000	0.0000	128.0434	0.5587	0.0038
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Controlled Burning	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Wildfires	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	21,728,000.0000	0.0017	0.0000	0.0000	35.8512	0.1564	0.0011
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	21,728,000.0000	0.0017	0.0000	0.0000	35.8512	0.1564	0.0011
Controlled Burning	Biomass burned	kg dm	21,728,000.0000	0.0017	0.0000	0.0000	35.8512	0.1564	0.0011
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
Controlled Burning	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	55,874,060.5053	0.0017	0.0000	0.0000	92.1922	0.4023	0.0028
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1992

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	2,250.8431	0.5311	0.0037	0.1320	4.6474
A. Forest Land	-13,340.0878	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,340.0878	NE,NO	NE,NO	NO	NO
B. Cropland	16,001.1031	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	936.2752	NA	NA	NO	NO
2. Land converted to Cropland	14,063.2865	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,260.5295	0.1712	0.0012	0.0425	1.4978
1. Grassland remaining Grassland	389.7208	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-7,458.2926	0.1712	0.0012	0.0425	1.4978
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,769.9590	0.3599	0.0025	0.0894	3.1495
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,687.4713	IE	IE	0.0894	3.1495
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-919.6018	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-919.6018	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	319.1308	0.5311	0.0037	0.1320	4.6474
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
• Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
• If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1992
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,257.8235	1.2336	IE,NO	1.2336	0.1605	0.2173	2,785.2251	IE,NO	2,785.2251	362.4635	490.5171		
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,435.8235	1.9398	IE,NO	1.9398	0.2524	0.3416	2,785.2251	IE,NO	2,785.2251	362.4635	490.5171		
2.1 Cropland converted to Forest Land		85.1032	1.6475	IE	1.6475	0.2459	0.4381	140.2088	IE	140.2088	20.9244	37.2850		
	England pre-1990	53.4582	1.3958	IE	1.3958	0.2443	0.7274	74.6172	IE	74.6172	13.0622	38.8879		
	Scotland pre-1990	23.2287	2.2618	IE	2.2618	0.2493	0.3417	52.5387	IE	52.5387	5.7910	7.9371		
	Wales pre-1990	3.0016	1.4133	IE	1.4133	0.2752	0.7433	4.2422	IE	4.2422	0.8261	2.2310		
	Northern Ireland pre-	0.2230	2.3317	IE	2.3317	0.3184	0.5988	0.5199	IE	0.5199	0.0710	0.1335		
	England post-1990	2.3190	1.8078	IE	1.8078	0.2522	-1.9943	4.1923	IE	4.1923	0.5849	-4.6249		
	Scotland post-1990	2.7154	1.4324	IE	1.4324	0.2060	-2.6033	3.8895	IE	3.8895	0.5593	-7.0691		
	Wales post-1990	0.1497	1.2884	IE	1.2884	0.1843	-1.2233	0.1929	IE	0.1929	0.0276	-0.1831		
	Northern Ireland post	0.0076	2.1397	IE	2.1397	0.3082	-3.6142	0.0162	IE	0.0162	0.0023	-0.0274		
2.2 Grassland converted to Forest Land		1,318.9533	1.9567	IE	1.9567	0.2530	0.3376	2,580.8318	IE	2,580.8318	333.6543	445.2498		
	England pre-1990	269.1861	1.3958	IE	1.3958	0.2443	0.7274	375.7309	IE	375.7309	65.7740	195.8179		
	Scotland pre-1990	773.0587	2.2618	IE	2.2618	0.2493	0.3417	1,748.5016	IE	1,748.5016	192.7245	264.1479		
	Wales pre-1990	147.8824	1.4133	IE	1.4133	0.2752	0.7433	209.0064	IE	209.0064	40.6991	109.9181		
	Northern Ireland pre-	65.0070	2.3317	IE	2.3317	0.3184	0.5988	151.5744	IE	151.5744	20.6957	38.9244		
	England post-1990	6.0943	1.8078	IE	1.8078	0.2522	-1.9943	11.0173	IE	11.0173	1.5372	-12.1541		
	Scotland post-1990	52.2097	1.4324	IE	1.4324	0.2060	-2.6033	74.7829	IE	74.7829	10.7542	-135.9163		
	Wales post-1990	1.8593	1.2884	IE	1.2884	0.1843	-1.2233	2.3955	IE	2.3955	0.3426	-2.2745		
	Northern Ireland post	3.6559	2.1398	IE	2.1398	0.3083	-3.6143	7.8228	IE	7.8228	1.1270	-13.2137		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		31.7670	2.0205	IE,NO	2.0205	0.2482	0.2513	64.1845	IE,NO	64.1845	7.8848	7.9824		
	England pre-1990	6.0357	1.3958	IE	1.3958	0.2443	0.7274	8.4247	IE	8.4247	1.4748	4.3907		
	Scotland pre-1990	22.1996	2.2618	IE	2.2618	0.2493	0.3417	50.2109	IE	50.2109	5.5344	7.5854		
	Wales pre-1990	1.2340	1.4133	IE	1.4133	0.2752	0.7433	1.7441	IE	1.7441	0.3396	0.9172		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	1.4247	1.8078	IE	1.8078	0.2522	-1.9943	2.5756	IE	2.5756	0.3594	-2.8414		
	Scotland post-1990	0.7259	1.4324	IE	1.4324	0.2060	-2.6033	1.0397	IE	1.0397	0.1495	-1.8897		
	Wales post-1990	0.1471	1.2884	IE	1.2884	0.1843	-1.2233	0.1895	IE	0.1895	0.0271	-0.1799		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 1992
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,064.9959	0.0174	-0.0066	0.0108	IE,NO	-0.4172	174.6522	-66.4268	108.2254	IE,NO	-4,199.0150
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0720	174.6522	NA,NO	174.6522	IE,NO	-430.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.8667	NA	NA	NA	IE	-430.0000
2. Land converted to Cropland ⁽⁶⁾		4,093.2556	IE,NO	-0.0162	-0.0162	IE,NO	-0.9208	IE,NO	-66.4268	-66.4268	IE,NO	-3,769.0150
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0407	IE,NO	IE,NO	IE,NO	IE	-2,9182
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0407	NO	NO	NO	IE	-2,9182
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		3,947.2647	IE,NO	-0.0165	-0.0165	IE	-0.9685	IE,NO	-65.1911	-65.1911	IE	-3,822.8695
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.5066	NO	NO	NO	IE	-1,312.7402
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-2.2285	NO	NO	NO	IE	-1,388.2989
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.9144	NO	NO	NO	IE	-216.6396
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.4074	NO	NO	NO	IE	-293.3349
	England post-1990	188.6363	IE	-0.2743	-0.2743	IE	-1.1905	IE	-51.7356	-51.7356	IE	-224.5632
	Scotland post-1990	64.2113	IE	-0.0821	-0.0821	IE	-4.6441	IE	-5.2711	-5.2711	IE	-298.2067
	Wales post-1990	23.8534	IE	-0.2235	-0.2235	IE	-1.9424	IE	-5.3305	-5.3305	IE	-46.3320
	Northern Ireland post-1990	11.1437	IE	-0.2561	-0.2561	IE	-3.8366	IE	-2.8539	-2.8539	IE	-42.7540
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		74.2826	IE,NO	-0.0166	-0.0166	IE,NO	0.7643	IE,NO	-1.2357	-1.2357	IE,NO	56.7728
	England pre-1990	46.8545	NO	NO	NO	IE	0.7333	NO	NO	NO	IE	34.3602
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7644	NO	NO	NO	IE	18.3198
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.7889	NO	NO	NO	IE	0.5006
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	1.8776	IE	-0.4224	-0.4224	IE	1.4001	IE	-0.7932	-0.7932	IE	2.6289
	Scotland post-1990	0.8119	IE	-0.4708	-0.4708	IE	0.9706	IE	-0.3823	-0.3823	IE	0.7880
	Wales post-1990	0.1378	IE	-0.4372	-0.4372	IE	1.2719	IE	-0.0602	-0.0602	IE	0.1753
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1992

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,417.5425	0.0169	-0.0011	0.0158	IE,NO	0.5514	57.8156	-3.7034	54.1123	IE,NO	1,884.3789
1. Grassland remaining Grassland		8.1183	NE	NE	NE	IE,NO	-13.0923	NE	NE	NE	IE,NO	-106.2875
	England peat extraction	5.2553	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-60.1003
	Scotland peat extraction	1.6170	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-18.4924
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,409.4242	0.0170	-0.0011	0.0159	IE,NO	0.5839	57.8156	-3.7034	54.1123	IE,NO	1,990.6664
2.1 Forest Land converted to Grassland		341.5519	IE,NO	IE,NO	IE,NO	IE	-0.0788	IE,NO	IE,NO	IE,NO	IE	-26.9261
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0662	NO	NO	NO	IE	-22.5840
	UK post-1990	0.2477	IE	IE	IE	IE	-17.5325	IE	IE	IE	IE	-4.3421
2.2 Cropland converted to Grassland		2,923.1512	0.0198	IE,NO	0.0198	IE	0.6118	57.8156	IE,NO	57.8156	IE	1,788.3303
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.4216	NO	NO	NO	IE	653.8828
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7602	NO	NO	NO	IE	516.4556
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.7256	NO	NO	NO	IE	104.7956
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	1.0613	NO	NO	NO	IE	316.4070
	England post-1990	165.7538	0.2744	IE	0.2744	IE	0.6098	45.4777	IE	45.4777	IE	101.0831
	Scotland post-1990	50.5163	0.0821	IE	0.0821	IE	0.8917	4.1490	IE	4.1490	IE	45.0460
	Wales post-1990	16.4573	0.2236	IE	0.2236	IE	0.9680	3.6791	IE	3.6791	IE	15.9312
	Northern Ireland post-1990	17.6147	0.2560	IE	0.2560	IE	1.9716	4.5098	IE	4.5098	IE	34.7292
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		144.7211	IE,NO	-0.0256	-0.0256	IE,NO	1.5842	IE,NO	-3.7034	-3.7034	IE,NO	229.2621
	England pre-1990	63.0327	NO	NO	NO	IE	1.4684	NO	NO	NO	IE	92.5572
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.5526	NO	NO	NO	IE	93.4132
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.7683	NO	NO	NO	IE	13.3221
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	10.1925	IE	-0.2559	-0.2559	IE	2.0959	IE	-2.6081	-2.6081	IE	21.3622
	Scotland post-1990	2.0276	IE	-0.3043	-0.3043	IE	1.9109	IE	-0.6171	-0.6171	IE	3.8745
	Wales post-1990	1.7674	IE	-0.2706	-0.2706	IE	2.6779	IE	-0.4782	-0.4782	IE	4.7328
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.2 Cropland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.3 Grassland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.4 Settlements converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.5 Other Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1992

Settlements⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
E. Total Settlements		1,024.3485	0.0135	IE,NO	0.0135	IE,NO	-1.7940	13.7870	IE,NO	13.7870	IE,NO	-1,837.6428		
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Settlements ⁽⁶⁾		1,024.3485	0.0135	IE,NO	0.0135	IE,NO	-1.7940	13.7870	IE,NO	13.7870	IE,NO	-1,837.6428		
2.1 Forest Land converted to Settlements		51.7503	IE,NO	IE,NO	IE,NO	IE	-0.4637	IE,NO	IE,NO	IE,NO	IE	-23.9959		
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.2902	NO	NO	NO	IE	-14.8657		
	UK post-1990	0.5208	IE	IE	IE	IE	-17.5325	IE	IE	IE	IE	-9.1302		
2.2 Cropland converted to Settlements		270.5965	0.0117	IE,NO	0.0117	IE	-1.0678	3.1691	IE,NO	3.1691	IE	-288.9383		
	England pre-1990	225.3365	NO	NO	NO	IE	-0.9533	NO	NO	NO	IE	-214.8036		
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.3574	NO	NO	NO	IE	-39.4169		
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.5480	NO	NO	NO	IE	-10.4302		
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-1.3087	NO	NO	NO	IE	-2.6948		
	England post-1990	6.3863	0.4242	IE	0.4242	IE	-2.7818	2.7091	IE	2.7091	IE	-17.7653		
	Scotland post-1990	0.3683	0.4727	IE	0.4727	IE	-3.4582	0.1741	IE	0.1741	IE	-1.2735		
	Wales post-1990	0.5479	0.4374	IE	0.4374	IE	-3.7815	0.2396	IE	0.2396	IE	-2.0718		
	Northern Ireland post-1990	0.1217	0.3805	IE	0.3805	IE	-3.9635	0.0463	IE	0.0463	IE	-0.4822		
2.3 Grassland converted to Settlements		702.0017	0.0151	IE,NO	0.0151	IE	-2.1719	10.6179	IE,NO	10.6179	IE	-1,524.7086		
	England pre-1990	445.9785	NO	NO	NO	IE	-1.5284	NO	NO	NO	IE	-681.6254		
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-3.5173	NO	NO	NO	IE	-354.9443		
	Wales pre-1990	71.4919	NO	NO	NO	IE	-2.1107	NO	NO	NO	IE	-150.8968		
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-2.8443	NO	NO	NO	IE	-122.9666		
	England post-1990	25.3838	0.2563	IE	0.2563	IE	-3.9416	6.5058	IE	6.5058	IE	-100.0534		
	Scotland post-1990	6.6630	0.3040	IE	0.3040	IE	-9.6921	2.0253	IE	2.0253	IE	-64.5782		
	Wales post-1990	5.3288	0.2707	IE	0.2707	IE	-4.9142	1.4427	IE	1.4427	IE	-26.1866		
	Northern Ireland post-1990	3.0113	0.2139	IE	0.2139	IE	-7.7897	0.6441	IE	0.6441	IE	-23.4575		
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1992

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1992

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1992

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Carbon emissions from agricultural lime application ⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	3,933,000.0000	0.1255	493.5228
B. Cropland ⁽⁴⁾	2,176,778.2275	0.1255	273.1476
Limestone CaCO ₃	1,006,753.0119	0.1200	120.8104
Dolomite CaMg(CO ₃) ₂	1,170,025.2156	0.1302	152.3373
C. Grassland ⁽⁴⁾	1,756,221.7725	0.1255	220.3752
Limestone CaCO ₃	812,246.9881	0.1200	97.4696
Dolomite CaMg(CO ₃) ₂	943,974.7844	0.1302	122.9055
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Biomass Burning ⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	73,767,730.5066	0.0017	0.0000	0.0000	121.7168	0.5311	0.0037
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	23,775,150.0544	0.0017	0.0000	0.0000	39.2290	0.1712	0.0012
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	23,775,150.0544	0.0017	0.0000	0.0000	39.2290	0.1712	0.0012
<i>Controlled Burning</i>	Biomass burned	kg dm	23,775,150.0544	0.0017	0.0000	0.0000	39.2290	0.1712	0.0012
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	49,992,580.4522	0.0017	0.0000	0.0000	82.4878	0.3599	0.0025
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1993

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	1,068.2401	0.4727	0.0033	0.1175	4.1360
A. Forest Land	-13,714.0704	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,714.0704	NE,NO	NE,NO	NO	NO
B. Cropland	15,577.2424	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	899.6086	NA	NA	NO	NO
2. Land converted to Cropland	14,079.2387	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,670.6443	0.1310	0.0009	0.0326	1.1465
1. Grassland remaining Grassland	382.6404	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-7,585.2120	0.1310	0.0009	0.0326	1.1465
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,717.7063	0.3417	0.0023	0.0849	2.9895
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,639.4091	IE	IE	0.0849	2.9895
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-841.9941	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-841.9941	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	312.2813	0.4727	0.0033	0.1175	4.1360
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
• Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
• If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1993
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,275.8695	1.2567	IE,NO	1.2567	0.1559	0.2308	2,860.1632	IE,NO	2,860.1632	354.8428	525.1951
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,453.8695	1.9673	IE,NO	1.9673	0.2441	0.3612	2,860.1632	IE,NO	2,860.1632	354.8428	525.1951
2.1 Cropland converted to Forest Land		86.7040	1.6668	IE	1.6668	0.2431	0.4208	144.5215	IE	144.5215	21.0779	36.4866
	England pre-1990	53.4582	1.3688	IE	1.3688	0.2482	0.7249	73.1753	IE	73.1753	13.2670	38.7504
	Scotland pre-1990	23.2287	2.2903	IE	2.2903	0.2374	0.4266	53.2007	IE	53.2007	5.5152	9.9103
	Wales pre-1990	3.0016	1.6040	IE	1.6040	0.2149	0.7368	4.8146	IE	4.8146	0.6450	2.2115
	Northern Ireland pre-	0.2230	1.9949	IE	1.9949	0.4038	0.6335	0.4448	IE	0.4448	0.0900	0.1412
	England post-1990	3.2699	2.1155	IE	2.1155	0.2496	-1.8030	6.9173	IE	6.9173	0.8163	-5.8955
	Scotland post-1990	3.3349	1.6981	IE	1.6981	0.2124	-2.5186	5.6630	IE	5.6630	0.7082	-8.3995
	Wales post-1990	0.1782	1.5755	IE	1.5755	0.1866	-1.1200	0.2808	IE	0.2808	0.0333	-0.1996
	Northern Ireland post	0.0095	2.6481	IE	2.6481	0.3182	-3.4214	0.0251	IE	0.0251	0.0030	-0.0324
2.2 Grassland converted to Forest Land		1,334.6207	1.9845	IE	1.9845	0.2443	0.3597	2,648.5172	IE	2,648.5172	326.0075	480.0163
	England pre-1990	269.1861	1.3688	IE	1.3688	0.2482	0.7249	368.4705	IE	368.4705	66.8051	195.1258
	Scotland pre-1990	773.0587	2.2903	IE	2.2903	0.2374	0.4266	1,770.5351	IE	1,770.5351	183.5468	329.8189
	Wales pre-1990	147.8824	1.6040	IE	1.6040	0.2149	0.7368	237.2062	IE	237.2062	31.7773	108.9562
	Northern Ireland pre-	65.0070	1.9949	IE	1.9949	0.4038	0.6335	129.6851	IE	129.6851	26.2529	41.1817
	England post-1990	8.5932	2.1155	IE	2.1155	0.2496	-1.8030	18.1787	IE	18.1787	2.1452	-15.4933
	Scotland post-1990	64.1206	1.6981	IE	1.6981	0.2124	-2.5186	108.8813	IE	108.8813	13.6163	-161.4959
	Wales post-1990	2.2137	1.5755	IE	1.5755	0.1866	-1.1200	3.4877	IE	3.4877	0.4132	-2.4793
	Northern Ireland post	4.5590	2.6481	IE	2.6481	0.3182	-3.4213	12.0726	IE	12.0726	1.4507	-15.5978
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		32.5448	2.0625	IE,NO	2.0625	0.2384	0.2671	67.1244	IE,NO	67.1244	7.7574	8.6922
	England pre-1990	6.0357	1.3688	IE	1.3688	0.2482	0.7249	8.2619	IE	8.2619	1.4979	4.3751
	Scotland pre-1990	22.1996	2.2903	IE	2.2903	0.2374	0.4266	50.8436	IE	50.8436	5.2708	9.4713
	Wales pre-1990	1.2340	1.6040	IE	1.6040	0.2149	0.7368	1.9794	IE	1.9794	0.2652	0.9092
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	2.0089	2.1155	IE	2.1155	0.2496	-1.8030	4.2498	IE	4.2498	0.5015	-3.6220
	Scotland post-1990	0.8915	1.6981	IE	1.6981	0.2124	-2.5186	1.5138	IE	1.5138	0.1893	-2.2453
	Wales post-1990	0.1751	1.5755	IE	1.5755	0.1866	-1.1200	0.2758	IE	0.2758	0.0327	-0.1961
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 1993

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2),(3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2),(3),(4)}			Net carbon stock change in dead organic matter ^{(3),(5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,161.8866	0.0172	-0.0065	0.0107	IE,NO	-0.4127	174.6522	-66.4268	108.2254	IE,NO	-4,193.3656
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0703	174.6522	NA,NO	174.6522	IE,NO	-420.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.8000	NA	NA	NA	IE	-420.0000
2. Land converted to Cropland ⁽⁶⁾		4,190.1462	IE,NO	-0.0159	-0.0159	IE,NO	-0.9005	IE,NO	-66.4268	-66.4268	IE,NO	-3,773.3656
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0385	IE,NO	IE,NO	IE,NO	IE	-2,7638
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0385	NO	NO	NO	IE	-2,7638
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,043.2128	IE,NO	-0.0161	-0.0161	IE	-0.9466	IE,NO	-65.1911	-65.1911	IE	-3,827.3370
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.4790	NO	NO	NO	IE	-1,241.0702
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-2.1052	NO	NO	NO	IE	-1,311.5416
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.8639	NO	NO	NO	IE	-204.6776
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.3316	NO	NO	NO	IE	-277.5250
	England post-1990	251.5150	IE	-0.2057	-0.2057	IE	-1.1565	IE	-51.7356	-51.7356	IE	-290.8769
	Scotland post-1990	85.6150	IE	-0.0616	-0.0616	IE	-4.5115	IE	-5.2711	-5.2711	IE	-386.2552
	Wales post-1990	31.8045	IE	-0.1676	-0.1676	IE	-1.8869	IE	-5.3305	-5.3305	IE	-60.0123
	Northern Ireland post-1990	14.8582	IE	-0.1921	-0.1921	IE	-3.7271	IE	-2.8539	-2.8539	IE	-55.3782
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		75.2251	IE,NO	-0.0164	-0.0164	IE,NO	0.7542	IE,NO	-1.2357	-1.2357	IE,NO	56.7352
	England pre-1990	46.8545	NO	NO	NO	IE	0.7128	NO	NO	NO	IE	33.3962
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7562	NO	NO	NO	IE	18.1242
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.7664	NO	NO	NO	IE	0.4863
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	2.5035	IE	-0.3168	-0.3168	IE	1.3794	IE	-0.7932	-0.7932	IE	3.4533
	Scotland post-1990	1.0825	IE	-0.3531	-0.3531	IE	0.9653	IE	-0.3823	-0.3823	IE	1.0450
	Wales post-1990	0.1838	IE	-0.3279	-0.3279	IE	1.2533	IE	-0.0602	-0.0602	IE	0.2303
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1993

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,505.4254	0.0165	-0.0011	0.0154	IE,NO	0.5473	57.8156	-3.7034	54.1123	IE,NO	1,918.4147
1. Grassland remaining Grassland		7.9494	NE	NE	NE	IE,NO	-13.1275	NE	NE	NE	IE,NO	-104.3565
	England peat extraction	5.2106	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-59.5890
	Scotland peat extraction	1.4929	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-17.0727
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,497.4759	0.0165	-0.0011	0.0155	IE,NO	0.5784	57.8156	-3.7034	54.1123	IE,NO	2,022.7711
2.1 Forest Land converted to Grassland		341.4938	IE,NO	IE,NO	IE,NO	IE	-0.0767	IE,NO	IE,NO	IE,NO	IE	-26.1915
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0626	NO	NO	NO	IE	-21.3544
	UK post-1990	0.1896	IE	IE	IE	IE	-25.5167	IE	IE	IE	IE	-4.8371
2.2 Cropland converted to Grassland		3,006.5986	0.0192	IE,NO	0.0192	IE	0.6034	57.8156	IE,NO	57.8156	IE	1,814.2976
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.4095	NO	NO	NO	IE	635.0409
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7521	NO	NO	NO	IE	510.9225
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.7045	NO	NO	NO	IE	101.7484
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	1.0315	NO	NO	NO	IE	307.5035
	England post-1990	221.0050	0.2058	IE	0.2058	IE	0.6009	45.4777	IE	45.4777	IE	132.7916
	Scotland post-1990	67.3550	0.0616	IE	0.0616	IE	0.8869	4.1490	IE	4.1490	IE	59.7366
	Wales post-1990	21.9430	0.1677	IE	0.1677	IE	0.9538	3.6791	IE	3.6791	IE	20.9289
	Northern Ireland post-1990	23.4862	0.1920	IE	0.1920	IE	1.9426	4.5098	IE	4.5098	IE	45.6252
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		149.3836	IE,NO	-0.0248	-0.0248	IE,NO	1.5709	IE,NO	-3.7034	-3.7034	IE,NO	234.6650
	England pre-1990	63.0327	NO	NO	NO	IE	1.4261	NO	NO	NO	IE	89.8913
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.5360	NO	NO	NO	IE	92.4143
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.7175	NO	NO	NO	IE	12.9398
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	13.5900	IE	-0.1919	-0.1919	IE	2.0650	IE	-2.6081	-2.6081	IE	28.0639
	Scotland post-1990	2.7035	IE	-0.2283	-0.2283	IE	1.9005	IE	-0.6171	-0.6171	IE	5.1381
	Wales post-1990	2.3565	IE	-0.2029	-0.2029	IE	2.6385	IE	-0.4782	-0.4782	IE	6.2175
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽²⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾	
			Increase	Decrease	Net change			Increase	Decrease	Net change			
			(Mg C/ha)					(Gg C)					
D. Total Wetlands													
1. Wetlands remaining Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2. Land converted to Wetlands ⁽⁵⁾													
2.1 Forest Land converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.2 Cropland converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.3 Grassland converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.4 Settlements converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.5 Other Land converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
E. Total Settlements		1,040.2590	0.0133	IE,NO	0.0133	IE,NO	-1.7539	13.7870	IE,NO	13.7870	IE,NO	-1,824.5349
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,040.2590	0.0133	IE,NO	0.0133	IE,NO	-1.7539	13.7870	IE,NO	13.7870	IE,NO	-1,824.5349
2.1 Forest Land converted to Settlements		51.7238	IE,NO	IE,NO	IE,NO	IE	-0.5156	IE,NO	IE,NO	IE,NO	IE	-26.6694
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.2744	NO	NO	NO	IE	-14.0565
	UK post-1990	0.4943	IE	IE	IE	IE	-25.5168	IE	IE	IE	IE	-12.6130
2.2 Cropland converted to Settlements		273.0712	0.0116	IE,NO	0.0116	IE	-1.0288	3.1691	IE,NO	3.1691	IE	-280.9230
	England pre-1990	225.3365	NO	NO	NO	IE	-0.9021	NO	NO	NO	IE	-203.2656
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.2838	NO	NO	NO	IE	-37.2794
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.4635	NO	NO	NO	IE	-9.8609
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-1.2387	NO	NO	NO	IE	-2.5507
	England post-1990	8.5150	0.3182	IE	0.3182	IE	-2.7021	2.7091	IE	2.7091	IE	-23.0088
	Scotland post-1990	0.4910	0.3545	IE	0.3545	IE	-3.3592	0.1741	IE	0.1741	IE	-1.6494
	Wales post-1990	0.7305	0.3280	IE	0.3280	IE	-3.6738	0.2396	IE	0.2396	IE	-2.6837
	Northern Ireland post-1990	0.1622	0.2854	IE	0.2854	IE	-3.8501	0.0463	IE	0.0463	IE	-0.6246
2.3 Grassland converted to Settlements		715.4640	0.0148	IE,NO	0.0148	IE	-2.1202	10.6179	IE,NO	10.6179	IE	-1,516.9425
	England pre-1990	445.9785	NO	NO	NO	IE	-1.4455	NO	NO	NO	IE	-644.6415
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-3.3275	NO	NO	NO	IE	-335.7824
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.9952	NO	NO	NO	IE	-142.6408
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-2.6909	NO	NO	NO	IE	-116.3314
	England post-1990	33.8450	0.1922	IE	0.1922	IE	-3.8290	6.5058	IE	6.5058	IE	-129.5933
	Scotland post-1990	8.8840	0.2280	IE	0.2280	IE	-9.4159	2.0253	IE	2.0253	IE	-83.6513
	Wales post-1990	7.1050	0.2031	IE	0.2031	IE	-4.7739	1.4427	IE	1.4427	IE	-33.9183
	Northern Ireland post-1990	4.0151	0.1604	IE	0.1604	IE	-7.5673	0.6441	IE	0.6441	IE	-30.3836
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1993

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1993

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1993

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1993

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	2,484,000.0000	0.1241	308.2698
B. Cropland ⁽⁴⁾	1,315,034.8968	0.1241	163.1987
Limestone CaCO ₃	786,162.1666	0.1200	94.3395
Dolomite CaMg(CO ₃) ₂	528,872.7302	0.1302	68.8592
C. Grassland ⁽⁴⁾	1,168,965.1032	0.1241	145.0711
Limestone CaCO ₃	698,837.8334	0.1200	83.8605
Dolomite CaMg(CO ₃) ₂	470,127.2698	0.1302	61.2106
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1993

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	65,651,047.2075	0.0017	0.0000		108.3242	0.4727	0.0033
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Controlled Burning	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Wildfires	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	18,198,196.7783	0.0017	0.0000	0.0000	30.0270	0.1310	0.0009
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	18,198,196.7783	0.0017	0.0000	0.0000	30.0270	0.1310	0.0009
Controlled Burning	Biomass burned	kg dm	18,198,196.7783	0.0017	0.0000	0.0000	30.0270	0.1310	0.0009
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
Controlled Burning	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	47,452,850.4292	0.0016	0.0000	0.0000	78.2972	0.3417	0.0023
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires: Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires: Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland: Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning: Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning: Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1994

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	862.8879	0.4854	0.0033	0.1206	4.2477
A. Forest Land	-14,192.6313	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-14,192.6313	NE,NO	NE,NO	NO	NO
B. Cropland	15,630.7893	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	862.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,095.8527	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,613.5044	0.1396	0.0010	0.0347	1.2211
1. Grassland remaining Grassland	484.0766	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-7,695.4044	0.1396	0.0010	0.0347	1.2211
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,671.0104	0.3459	0.0024	0.0859	3.0266
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,591.7428	IE	IE	0.0859	3.0266
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-632.7762	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-632.7762	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	321.3855	0.4854	0.0033	0.1206	4.2477
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
• Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
• If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1994
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,294.8245	1.3040	IE,NO	1.3040	0.1415	0.2413	2,992.4401	IE,NO	2,992.4401	324.6157	553.6618
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,472.8245	2.0318	IE,NO	2.0318	0.2204	0.3759	2,992.4401	IE,NO	2,992.4401	324.6157	553.6618
2.1 Cropland converted to Forest Land		88.5274	1.7259	IE	1.7259	0.2259	0.4016	152.7931	IE	152.7931	19.9958	35.5553
	England pre-1990	53.4582	1.3873	IE	1.3873	0.2334	0.7191	74.1639	IE	74.1639	12.4785	38.4411
	Scotland pre-1990	23.2287	2.3249	IE	2.3249	0.2157	0.4917	54.0055	IE	54.0055	5.0105	11.4206
	Wales pre-1990	3.0016	1.7555	IE	1.7555	0.1674	0.7295	5.2691	IE	5.2691	0.5025	2.1897
	Northern Ireland pre-	0.2230	2.1349	IE	2.1349	0.3436	0.6514	0.4760	IE	0.4760	0.0766	0.1452
	England post-1990	4.4704	2.3859	IE	2.3859	0.2408	-1.6321	10.6657	IE	10.6657	1.0766	-7.2962
	Scotland post-1990	3.9253	1.9784	IE	1.9784	0.2058	-2.3139	7.7661	IE	7.7661	0.8078	-9.0830
	Wales post-1990	0.2080	1.9795	IE	1.9795	0.1906	-1.0783	0.4117	IE	0.4117	0.0397	-0.2243
	Northern Ireland post	0.0122	2.8606	IE	2.8606	0.2998	-3.0888	0.0350	IE	0.0350	0.0037	-0.0378
2.2 Grassland converted to Forest Land		1,350.8276	2.0495	IE	2.0495	0.2201	0.3769	2,768.4613	IE	2,768.4613	297.2995	509.0824
	England pre-1990	269.1861	1.3873	IE	1.3873	0.2334	0.7191	373.4487	IE	373.4487	62.8347	193.5681
	Scotland pre-1990	773.0587	2.3249	IE	2.3249	0.2157	0.4917	1,797.3174	IE	1,797.3174	166.7518	380.0802
	Wales pre-1990	147.8824	1.7555	IE	1.7555	0.1674	0.7295	259.6003	IE	259.6003	24.7581	107.8816
	Northern Ireland pre-	65.0070	2.1349	IE	2.1349	0.3436	0.6514	138.7853	IE	138.7853	22.3370	42.3426
	England post-1990	11.7482	2.3859	IE	2.3859	0.2408	-1.6321	28.0294	IE	28.0294	2.8294	-19.1743
	Scotland post-1990	75.4723	1.9784	IE	1.9784	0.2058	-2.3139	149.3182	IE	149.3182	15.5305	-174.6384
	Wales post-1990	2.5837	1.9795	IE	1.9795	0.1906	-1.0783	5.1144	IE	5.1144	0.4925	-2.7860
	Northern Ireland post	5.8893	2.8607	IE	2.8607	0.2998	-3.0889	16.8476	IE	16.8476	1.7655	-18.1914
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		33.4694	2.1269	IE,NO	2.1269	0.2187	0.2696	71.1857	IE,NO	71.1857	7.3203	9.0241
	England pre-1990	6.0357	1.3873	IE	1.3873	0.2334	0.7191	8.3735	IE	8.3735	1.4089	4.3402
	Scotland pre-1990	22.1996	2.3249	IE	2.3249	0.2157	0.4917	51.6127	IE	51.6127	4.7885	10.9146
	Wales pre-1990	1.2340	1.7555	IE	1.7555	0.1674	0.7295	2.1663	IE	2.1663	0.2066	0.9002
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	2.7465	2.3859	IE	2.3859	0.2408	-1.6321	6.5526	IE	6.5526	0.6614	-4.4825
	Scotland post-1990	1.0493	1.9784	IE	1.9784	0.2058	-2.3139	2.0760	IE	2.0760	0.2159	-2.4281
	Wales post-1990	0.2043	1.9795	IE	1.9795	0.1906	-1.0783	0.4045	IE	0.4045	0.0390	-0.2203
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1994

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,258.7772	0.0170	-0.0065	0.0105	IE,NO	-0.4082	174.6522	-66.4268	108.2254	IE,NO	-4,187.8967
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.9687	174.6522	NA,NO	174.6522	IE,NO	-410.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.7333	NA	NA	NA	IE	-410.0000
2. Land converted to Cropland ⁽⁶⁾		4,287.0369	IE,NO	-0.0155	-0.0155	IE,NO	-0.8812	IE,NO	-66.4268	-66.4268	IE,NO	-3,777.8967
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0365	IE,NO	IE,NO	IE,NO	IE	-2.6182
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0365	NO	NO	NO	IE	-2.6182
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,139.1610	IE,NO	-0.0157	-0.0157	IE	-0.9258	IE,NO	-65.1911	-65.1911	IE	-3,831.9796
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.4530	NO	NO	NO	IE	-1,173.6889
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.9895	NO	NO	NO	IE	-1,239.4344
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.8165	NO	NO	NO	IE	-193.4399
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.2602	NO	NO	NO	IE	-262.6488
	England post-1990	314.3938	IE	-0.1646	-0.1646	IE	-1.1240	IE	-51.7356	-51.7356	IE	-353.3676
	Scotland post-1990	107.0188	IE	-0.0493	-0.0493	IE	-4.3845	IE	-5.2711	-5.2711	IE	-469.2225
	Wales post-1990	39.7556	IE	-0.1341	-0.1341	IE	-1.8338	IE	-5.3305	-5.3305	IE	-72.9032
	Northern Ireland post-1990	18.5728	IE	-0.1537	-0.1537	IE	-3.6222	IE	-2.8539	-2.8539	IE	-67.2743
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		76.1675	IE,NO	-0.0162	-0.0162	IE,NO	0.7444	IE,NO	-1.2357	-1.2357	IE,NO	56.7012
	England pre-1990	46.8545	NO	NO	NO	IE	0.6928	NO	NO	NO	IE	32.4619
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7482	NO	NO	NO	IE	17.9309
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.7446	NO	NO	NO	IE	0.4724
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	3.1294	IE	-0.2535	-0.2535	IE	1.3591	IE	-0.7932	-0.7932	IE	4.2532
	Scotland post-1990	1.3531	IE	-0.2825	-0.2825	IE	0.9601	IE	-0.3823	-0.3823	IE	1.2992
	Wales post-1990	0.2297	IE	-0.2623	-0.2623	IE	1.2350	IE	-0.0602	-0.0602	IE	0.2837
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further detail are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1994

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,595.9665	0.0161	-0.0010	0.0150	IE,NO	0.5343	57.8156	-3.7034	54.1123	IE,NO	1,921.3355
1. Grassland remaining Grassland		10.3685	NE	NE	NE	IE,NO	-12.7329	NE	NE	NE	IE,NO	-132.0209
	England peat extraction	6.6970	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-76.5875
	Scotland peat extraction	2.4255	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-27.7386
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,585.5981	0.0161	-0.0010	0.0151	IE,NO	0.5727	57.8156	-3.7034	54.1123	IE,NO	2,053.3564
2.1 Forest Land converted to Grassland		341.5061	IE,NO	IE,NO	IE,NO	IE	-0.0770	IE,NO	IE,NO	IE,NO	IE	-26.2921
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0592	NO	NO	NO	IE	-20.1982
	UK post-1990	0.2019	IE	IE	IE	IE	-30.1830	IE	IE	IE	IE	-6.0939
2.2 Cropland converted to Grassland		3,090.0459	0.0187	IE,NO	0.0187	IE	0.5954	57.8156	IE,NO	57.8156	IE	1,839.7287
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3977	NO	NO	NO	IE	616.7951
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7441	NO	NO	NO	IE	505.4528
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.6840	NO	NO	NO	IE	98.7985
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	1.0025	NO	NO	NO	IE	298.8752
	England post-1990	276.2563	0.1646	IE	0.1646	IE	0.5921	45.4777	IE	45.4777	IE	163.5610
	Scotland post-1990	84.1938	0.0493	IE	0.0493	IE	0.8821	4.1490	IE	4.1490	IE	74.2681
	Wales post-1990	27.4288	0.1341	IE	0.1341	IE	0.9398	3.6791	IE	3.6791	IE	25.7787
	Northern Ireland post-1990	29.3578	0.1536	IE	0.1536	IE	1.9143	4.5098	IE	4.5098	IE	56.1994
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		154.0461	IE,NO	-0.0240	-0.0240	IE,NO	1.5575	IE,NO	-3.7034	-3.7034	IE,NO	239.9197
	England pre-1990	63.0327	NO	NO	NO	IE	1.3852	NO	NO	NO	IE	87.3098
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.5196	NO	NO	NO	IE	91.4269
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.6684	NO	NO	NO	IE	12.5695
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	16.9875	IE	-0.1535	-0.1535	IE	2.0349	IE	-2.6081	-2.6081	IE	34.5672
	Scotland post-1990	3.3794	IE	-0.1826	-0.1826	IE	1.8903	IE	-0.6171	-0.6171	IE	6.3880
	Wales post-1990	2.9456	IE	-0.1623	-0.1623	IE	2.5999	IE	-0.4782	-0.4782	IE	7.6584
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾			
			Increase	Decrease	Net change			Increase	Decrease	Net change					
			(Mg C/ha)					(Gg C)							
D. Total Wetlands															
1. Wetlands remaining Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2. Land converted to Wetlands ⁽⁵⁾															
2.1 Forest Land converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.2 Cropland converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.3 Grassland converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.4 Settlements converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.5 Other Land converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
E. Total Settlements		1,056.2021	0.0131	IE,NO	0.0131	IE,NO	-1.7151	13.7870	IE,NO	13.7870	IE,NO	-1,811.5350
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,056.2021	0.0131	IE,NO	0.0131	IE,NO	-1.7151	13.7870	IE,NO	13.7870	IE,NO	-1,811.5350
2.1 Forest Land converted to Settlements		51.7300	IE,NO	IE,NO	IE,NO	IE	-0.5490	IE,NO	IE,NO	IE,NO	IE	-28.3999
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.2595	NO	NO	NO	IE	-13.2955
	UK post-1990	0.5004	IE	IE	IE	IE	-30.1830	IE	IE	IE	IE	-15.1044
2.2 Cropland converted to Settlements		275.5459	0.0115	IE,NO	0.0115	IE	-0.9922	3.1691	IE,NO	3.1691	IE	-273.3877
	England pre-1990	225.3365	NO	NO	NO	IE	-0.8539	NO	NO	NO	IE	-192.4067
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.2145	NO	NO	NO	IE	-35.2689
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.3841	NO	NO	NO	IE	-9.3256
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-1.1728	NO	NO	NO	IE	-2.4149
	England post-1990	10.6438	0.2545	IE	0.2545	IE	-2.6258	2.7091	IE	2.7091	IE	-27.9488
	Scotland post-1990	0.6138	0.2836	IE	0.2836	IE	-3.2645	0.1741	IE	0.1741	IE	-2.0036
	Wales post-1990	0.9131	0.2624	IE	0.2624	IE	-3.5706	0.2396	IE	0.2396	IE	-3.2604
	Northern Ireland post-1990	0.2028	0.2283	IE	0.2283	IE	-3.7414	0.0463	IE	0.0463	IE	-0.7587
2.3 Grassland converted to Settlements		728.9262	0.0146	IE,NO	0.0146	IE	-2.0712	10.6179	IE,NO	10.6179	IE	-1,509.7475
	England pre-1990	445.9785	NO	NO	NO	IE	-1.3675	NO	NO	NO	IE	-609.8572
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-3.1488	NO	NO	NO	IE	-317.7545
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.8866	NO	NO	NO	IE	-134.8797
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-2.5465	NO	NO	NO	IE	-110.0885
	England post-1990	42.3063	0.1538	IE	0.1538	IE	-3.7211	6.5058	IE	6.5058	IE	-157.4276
	Scotland post-1990	11.1050	0.1824	IE	0.1824	IE	-9.1514	2.0253	IE	2.0253	IE	-101.6262
	Wales post-1990	8.8813	0.1624	IE	0.1624	IE	-4.6394	1.4427	IE	1.4427	IE	-41.2039
	Northern Ireland post-1990	5.0189	0.1283	IE	0.1283	IE	-7.3542	0.6441	IE	0.6441	IE	-36.9100
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1994

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1994

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1994

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1994

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	2,795,000.0000	0.1239	346.3140
B. Cropland ⁽⁴⁾	1,479,129.3814	0.1239	183.2713
Limestone CaCO ₃	912,879.4930	0.1200	109.5455
Dolomite CaMg(CO ₃) ₂	566,249.8884	0.1302	73.7257
C. Grassland ⁽⁴⁾	1,315,870.6186	0.1239	163.0427
Limestone CaCO ₃	812,120.5070	0.1200	97.4545
Dolomite CaMg(CO ₃) ₂	503,750.1116	0.1302	65.5883
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1994

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	67,423,148.6098	0.0016	0.0000	0.0000	111.2482	0.4854	0.0033
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Controlled Burning	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Wildfires	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	19,382,150.1753	0.0017	0.0000	0.0000	31.9805	0.1396	0.0010
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	19,382,150.1753	0.0017	0.0000	0.0000	31.9805	0.1396	0.0010
Controlled Burning	Biomass burned	kg dm	19,382,150.1753	0.0017	0.0000	0.0000	31.9805	0.1396	0.0010
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
Controlled Burning	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	48,040,998.4345	0.0016	0.0000	0.0000	79.2676	0.3459	0.0024
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1995

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	991.7755	0.4492	0.0031	0.1116	3.9305
A. Forest Land	-13,948.2066	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,948.2066	NE,NO	NE,NO	NO	NO
B. Cropland	15,770.7207	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	826.2752	NA	NA	NO	NO
2. Land converted to Cropland	14,112.9956	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,540.8636	0.1553	0.0011	0.0386	1.3586
1. Grassland remaining Grassland	558.0091	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-7,796.8607	0.1553	0.0011	0.0386	1.3586
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,609.9995	0.2939	0.0020	0.0730	2.5718
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,542.6419	IE	IE	0.0730	2.5718
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-899.8745	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-899.8745	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	318.9174	0.4492	0.0031	0.1116	3.9305
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
• Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
• If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1995
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,313.3906	1.2343	IE,NO	1.2343	0.1607	0.2494	2,855.3702	IE,NO	2,855.3702	371.7181	576.9681		
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,491.3906	1.9146	IE,NO	1.9146	0.2492	0.3869	2,855.3702	IE,NO	2,855.3702	371.7181	576.9681		
2.1 Cropland converted to Forest Land		90.5425	1.6461	IE	1.6461	0.2485	0.3861	149.0429	IE	149.0429	22.4971	34.9566		
	England pre-1990	53.4582	1.2704	IE	1.2704	0.2583	0.7129	67.9128	IE	67.9128	13.8076	38.1081		
	Scotland pre-1990	23.2287	2.1611	IE	2.1611	0.2463	0.5424	50.1991	IE	50.1991	5.7209	12.5993		
	Wales pre-1990	3.0016	1.5883	IE	1.5883	0.2110	4.7675	4.7675	IE	4.7675	0.6334	2.1824		
	Northern Ireland pre-	0.2230	1.8787	IE	1.8787	0.4061	0.6721	0.4189	IE	0.4189	0.0906	0.1498		
	England post-1990	5.9290	2.4889	IE	2.4889	0.2174	-1.3656	14.7570	IE	14.7570	1.2888	-8.0966		
	Scotland post-1990	4.4357	2.3440	IE	2.3440	0.2043	-2.1872	10.3974	IE	10.3974	0.9064	-9.7016		
	Wales post-1990	0.2515	2.1716	IE	2.1716	0.1804	-0.9761	0.5461	IE	0.5461	0.0454	-0.2454		
	Northern Ireland post	0.0149	2.9586	IE	2.9586	0.2712	-2.6427	0.0441	IE	0.0441	0.0040	-0.0394		
2.2 Grassland converted to Forest Land		1,366.3034	1.9295	IE	1.9295	0.2495	0.3898	2,636.3424	IE	2,636.3424	340.8555	532.5793		
	England pre-1990	269.1861	1.2704	IE	1.2704	0.2583	0.7129	341.9713	IE	341.9713	69.5274	191.8914		
	Scotland pre-1990	773.0587	2.1611	IE	2.1611	0.2463	0.5424	1,670.6392	IE	1,670.6392	190.3931	419.3079		
	Wales pre-1990	147.8824	1.5883	IE	1.5883	0.2110	4.7675	234.8883	IE	234.8883	31.2084	107.5224		
	Northern Ireland pre-	65.0070	1.8787	IE	1.8787	0.4061	0.6721	122.1266	IE	122.1266	26.4023	43.6890		
	England post-1990	15.5814	2.4889	IE	2.4889	0.2174	-1.3656	38.7813	IE	38.7813	3.3870	-21.2778		
	Scotland post-1990	85.2846	2.3440	IE	2.3440	0.2043	-2.1872	199.9109	IE	199.9109	17.4264	-186.5314		
	Wales post-1990	3.1235	2.1716	IE	2.1716	0.1804	-0.9761	6.7830	IE	6.7830	0.5636	-3.0488		
	Northern Ireland post	7.1797	2.9586	IE	2.9586	0.2712	-2.6426	21.2416	IE	21.2416	1.9473	-18.9734		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		34.5447	2.0259	IE,NO	2.0259	0.2422	0.2730	69.9849	IE,NO	69.9849	8.3655	9.4321		
	England pre-1990	6.0357	1.2704	IE	1.2704	0.2583	0.7129	7.6677	IE	7.6677	1.5590	4.3026		
	Scotland pre-1990	22.1996	2.1611	IE	2.1611	0.2463	0.5424	47.9750	IE	47.9750	5.4674	12.0411		
	Wales pre-1990	1.2340	1.5883	IE	1.5883	0.2110	4.7675	1.9601	IE	1.9601	0.2604	0.8972		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	3.6426	2.4889	IE	2.4889	0.2174	-1.3656	9.0662	IE	9.0662	0.7918	-4.9743		
	Scotland post-1990	1.1857	2.3440	IE	2.3440	0.2043	-2.1872	2.7794	IE	2.7794	0.2423	-2.5934		
	Wales post-1990	0.2470	2.1716	IE	2.1716	0.1804	-0.9761	0.5365	IE	0.5365	0.0446	-0.2411		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2),(3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2),(3),(4)}			Net carbon stock change in dead organic matter ^{(3),(5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,355.6678	0.0169	-0.0064	0.0105	IE,NO	-0.4039	174.6522	-66.4268	108.2254	IE,NO	-4,182.5720
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0670	174.6522	NA,NO	174.6522	IE,NO	-400.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.6667	NA	NA	NA	IE	-400.0000
2. Land converted to Cropland ⁽⁶⁾		4,383.9275	IE,NO	-0.0152	-0.0152	IE,NO	-0.8628	IE,NO	-66.4268	-66.4268	IE,NO	-3,782.5720
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0346	IE,NO	IE,NO	IE,NO	IE	-2.4811
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0346	NO	NO	NO	IE	-2.4811
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,235.1092	IE,NO	-0.0154	-0.0154	IE	-0.9059	IE,NO	-65.1911	-65.1911	IE	-3,836.7612
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.4285	NO	NO	NO	IE	-1,110.3170
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.8807	NO	NO	NO	IE	-1,171.6712
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.7719	NO	NO	NO	IE	-182.8788
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.1930	NO	NO	NO	IE	-248.6463
	England post-1990	377.2725	IE	-0.1371	-0.1371	IE	-1.0928	IE	-51.7356	-51.7356	IE	-412.2761
	Scotland post-1990	128.4225	IE	-0.0410	-0.0410	IE	-4.2627	IE	-5.2711	-5.2711	IE	-547.4292
	Wales post-1990	47.7068	IE	-0.1117	-0.1117	IE	-1.7829	IE	-5.3305	-5.3305	IE	-85.0545
	Northern Ireland post-1990	22.2873	IE	-0.1281	-0.1281	IE	-3.5216	IE	-2.8539	-2.8539	IE	-78.4881
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		77.1100	IE,NO	-0.0160	-0.0160	IE,NO	0.7349	IE,NO	-1.2357	-1.2357	IE,NO	56.6704
	England pre-1990	46.8545	NO	NO	NO	IE	0.6735	NO	NO	NO	IE	31.5563
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7402	NO	NO	NO	IE	17.7397
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.7235	NO	NO	NO	IE	0.4590
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	3.7553	IE	-0.2112	-0.2112	IE	1.3393	IE	-0.7932	-0.7932	IE	5.0293
	Scotland post-1990	1.6238	IE	-0.2354	-0.2354	IE	0.9549	IE	-0.3823	-0.3823	IE	1.5506
	Wales post-1990	0.2756	IE	-0.2186	-0.2186	IE	1.2172	IE	-0.0602	-0.0602	IE	0.3355
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS				EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,685.8622	0.0157	-0.0010	0.0147	IE,NO	0.5236	57.8156	-3.7034	54.1123	IE,NO	1,929.8244
1. Grassland remaining Grassland		12.1316	NE	NE	NE	IE,NO	-12.5445	NE	NE	NE	IE,NO	-152.1843
	England peat extraction	7.6857	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-87.8946
	Scotland peat extraction	3.1999	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-36.5949
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,673.7306	0.0157	-0.0010	0.0147	IE,NO	0.5667	57.8156	-3.7034	54.1123	IE,NO	2,082.0087
2.1 Forest Land converted to Grassland		341.5289	IE,NO	IE,NO	IE,NO	IE	-0.0810	IE,NO	IE,NO	IE,NO	IE	-27.6594
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0560	NO	NO	NO	IE	-19.1106
	UK post-1990	0.2246	IE	IE	IE	IE	-38.0554	IE	IE	IE	IE	-8.5488
2.2 Cropland converted to Grassland		3,173.4932	0.0182	IE,NO	0.0182	IE	0.5876	57.8156	IE,NO	57.8156	IE	1,864.6372
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3863	NO	NO	NO	IE	599.1249
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7361	NO	NO	NO	IE	500.0457
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.6643	NO	NO	NO	IE	95.9426
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.9745	NO	NO	NO	IE	290.5129
	England post-1990	331.5075	0.1372	IE	0.1372	IE	0.5835	45.4777	IE	45.4777	IE	193.4215
	Scotland post-1990	101.0325	0.0411	IE	0.0411	IE	0.8774	4.1490	IE	4.1490	IE	88.6422
	Wales post-1990	32.9145	0.1118	IE	0.1118	IE	0.9262	3.6791	IE	3.6791	IE	30.4854
	Northern Ireland post-1990	35.2293	0.1280	IE	0.1280	IE	1.8866	4.5098	IE	4.5098	IE	66.4621
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		158.7086	IE,NO	-0.0233	-0.0233	IE,NO	1.5439	IE,NO	-3.7034	-3.7034	IE,NO	245.0309
	England pre-1990	63.0327	NO	NO	NO	IE	1.3455	NO	NO	NO	IE	84.8095
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.5033	NO	NO	NO	IE	90.4507
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.6208	NO	NO	NO	IE	12.2109
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	20.3850	IE	-0.1279	-0.1279	IE	2.0053	IE	-2.6081	-2.6081	IE	40.8788
	Scotland post-1990	4.0553	IE	-0.1522	-0.1522	IE	1.8801	IE	-0.6171	-0.6171	IE	7.6243
	Wales post-1990	3.5348	IE	-0.1353	-0.1353	IE	2.5622	IE	-0.4782	-0.4782	IE	9.0567
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.2 Cropland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.3 Grassland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
 5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

Settlements⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
E. Total Settlements		1,072.0639	0.0129	IE,NO	0.0129	IE,NO	-1.6773	13.7870	IE,NO	13.7870	IE,NO	-1,798.1439
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,072.0639	0.0129	IE,NO	0.0129	IE,NO	-1.6773	13.7870	IE,NO	13.7870	IE,NO	-1,798.1439
2.1 Forest Land converted to Settlements		51.6548	IE,NO	IE,NO	IE,NO	IE	-0.5568	IE,NO	IE,NO	IE,NO	IE	-28.7622
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.2456	NO	NO	NO	IE	-12.5797
	UK post-1990	0.4252	IE	IE	IE	IE	-38.0554	IE	IE	IE	IE	-16.1826
2.2 Cropland converted to Settlements		278.0206	0.0114	IE,NO	0.0114	IE	-0.9578	3.1691	IE,NO	3.1691	IE	-266.3010
	England pre-1990	225.3365	NO	NO	NO	IE	-0.8085	NO	NO	NO	IE	-182.1833
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.1494	NO	NO	NO	IE	-33.3772
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.3093	NO	NO	NO	IE	-8.8222
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-1.1107	NO	NO	NO	IE	-2.2871
	England post-1990	12.7725	0.2121	IE	0.2121	IE	-2.5527	2.7091	IE	2.7091	IE	-32.6047
	Scotland post-1990	0.7365	0.2363	IE	0.2363	IE	-3.1737	0.1741	IE	0.1741	IE	-2.3374
	Wales post-1990	1.0958	0.2187	IE	0.2187	IE	-3.4717	0.2396	IE	0.2396	IE	-3.8041
	Northern Ireland post-1990	0.2433	0.1903	IE	0.1903	IE	-3.6373	0.0463	IE	0.0463	IE	-0.8851
2.3 Grassland converted to Settlements		742.3885	0.0143	IE,NO	0.0143	IE	-2.0247	10.6179	IE,NO	10.6179	IE	-1,503.0806
	England pre-1990	445.9785	NO	NO	NO	IE	-1.2941	NO	NO	NO	IE	-577.1302
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.9807	NO	NO	NO	IE	-300.7874
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.7846	NO	NO	NO	IE	-127.5813
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-2.4105	NO	NO	NO	IE	-104.2126
	England post-1990	50.7675	0.1281	IE	0.1281	IE	-3.6177	6.5058	IE	6.5058	IE	-183.6638
	Scotland post-1990	13.3260	0.1520	IE	0.1520	IE	-8.8978	2.0253	IE	2.0253	IE	-118.5720
	Wales post-1990	10.6575	0.1354	IE	0.1354	IE	-4.5106	1.4427	IE	1.4427	IE	-48.0713
	Northern Ireland post-1990	6.0227	0.1069	IE	0.1069	IE	-7.1500	0.6441	IE	0.6441	IE	-43.0619
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.

(6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	3,387,000.0000	0.1232	417.1194
B. Cropland ⁽⁴⁾	1,841,278.2751	0.1232	226.7590
Limestone CaCO ₃	1,272,096.5939	0.1200	152.6516
Dolomite CaMg(CO ₃) ₂	569,181.6811	0.1302	74.1075
C. Grassland ⁽⁴⁾	1,545,721.7249	0.1232	190.3604
Limestone CaCO ₃	1,067,903.4061	0.1200	128.1484
Dolomite CaMg(CO ₃) ₂	477,818.3189	0.1302	62.2119
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1995

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	62,388,245.2309	0.0016	0.0000	0.0000	102.9406	0.4492	0.0031
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	21,565,426.8617	0.0016	0.0000	0.0000	35.5830	0.1553	0.0011
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	21,565,426.8617	0.0016	0.0000	0.0000	35.5830	0.1553	0.0011
<i>Controlled Burning</i>	Biomass burned	kg dm	21,565,426.8617	0.0016	0.0000	0.0000	35.5830	0.1553	0.0011
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	40,822,818.3692	0.0016	0.0000	0.0000	67.3577	0.2939	0.0020
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1996

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	850.2203	0.5209	0.0036	0.1294	4.5576
A. Forest Land	-13,720.0644	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,720.0644	NE,NO	NE,NO	NO	NO
B. Cropland	15,802.5263	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	789.6086	NA	NA	NO	NO
2. Land converted to Cropland	14,130.5483	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,789.1191	0.1829	0.0013	0.0454	1.6000
1. Grassland remaining Grassland	475.2946	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-7,897.2063	0.1829	0.0013	0.0454	1.6000
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,577.9680	0.3380	0.0023	0.0840	2.9575
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,500.5089	IE	IE	0.0840	2.9575
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-1,021.0904	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-1,021.0904	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	340.8608	0.5209	0.0036	0.1294	4.5576
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1996
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,333.3166	1.1733	IE,NO	1.1733	0.1727	0.2577	2,737.6602	IE,NO	2,737.6602	402.9167	601.2589		
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,511.3166	1.8114	IE,NO	1.8114	0.2666	0.3978	2,737.6602	IE,NO	2,737.6602	402.9167	601.2589		
2.1 Cropland converted to Forest Land		92.4270	1.6492	IE	1.6492	0.2422	0.3809	152.4313	IE	152.4313	22.3900	35.2085		
	England pre-1990	53.4582	1.2997	IE	1.2997	0.2360	0.7041	69.4821	IE	69.4821	12.6143	37.6391		
	Scotland pre-1990	23.2287	2.0140	IE	2.0140	0.2680	0.5808	46.7835	IE	46.7835	6.2246	13.4906		
	Wales pre-1990	3.0016	1.1245	IE	1.1245	0.3292	0.7370	3.3753	IE	3.3753	0.9881	2.2121		
	Northern Ireland pre-	0.2230	1.7665	IE	1.7665	0.4134	0.6835	0.3939	IE	0.3939	0.0922	0.1524		
	England post-1990	7.1192	2.6703	IE	2.6703	0.2017	-1.1151	19.0105	IE	19.0105	1.4358	-7.9385		
	Scotland post-1990	5.0897	2.4878	IE	2.4878	0.1929	-1.9786	12.6619	IE	12.6619	0.9819	-10.0706		
	Wales post-1990	0.2899	2.3125	IE	2.3125	0.1688	-0.8206	0.6704	IE	0.6704	0.0489	-0.2379		
	Northern Ireland post	0.0168	3.1926	IE	3.1926	0.2552	-2.3059	0.0537	IE	0.0537	0.0043	-0.0388		
2.2 Grassland converted to Forest Land		1,383.4011	1.8184	IE	1.8184	0.2686	0.4018	2,515.5627	IE	2,515.5627	371.5547	555.8013		
	England pre-1990	269.1861	1.2997	IE	1.2997	0.2360	0.7041	349.8733	IE	349.8733	63.5186	189.5298		
	Scotland pre-1990	773.0587	2.0140	IE	2.0140	0.2680	0.5808	1,556.9675	IE	1,556.9675	207.1567	448.9721		
	Wales pre-1990	147.8824	1.1245	IE	1.1245	0.3292	0.7370	166.2958	IE	166.2958	48.6815	108.9855		
	Northern Ireland pre-	65.0070	1.7665	IE	1.7665	0.4134	0.6835	114.8358	IE	114.8358	26.8716	44.4311		
	England post-1990	18.7091	2.6703	IE	2.6703	0.2017	-1.1151	49.9596	IE	49.9596	3.7732	-20.8623		
	Scotland post-1990	97.8588	2.4878	IE	2.4878	0.1929	-1.9786	243.4498	IE	243.4498	18.8784	-193.6267		
	Wales post-1990	3.6013	2.3125	IE	2.3125	0.1688	-0.8206	8.3279	IE	8.3279	0.6079	-2.9553		
	Northern Ireland post	8.0978	3.1926	IE	3.1926	0.2552	-2.3059	25.8530	IE	25.8530	2.0668	-18.6730		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		35.4885	1.9631	IE,NO	1.9631	0.2528	0.2888	69.6661	IE,NO	69.6661	8.9719	10.2491		
	England pre-1990	6.0357	1.2997	IE	1.2997	0.2360	0.7041	7.8449	IE	7.8449	1.4242	4.2497		
	Scotland pre-1990	22.1996	2.0140	IE	2.0140	0.2680	0.5808	44.7107	IE	44.7107	5.9488	12.8929		
	Wales pre-1990	1.2340	1.1245	IE	1.1245	0.3292	0.7370	1.3877	IE	1.3877	0.4062	0.9095		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	4.3738	2.6703	IE	2.6703	0.2017	-1.1151	11.6794	IE	11.6794	0.8821	-4.8771		
	Scotland post-1990	1.3606	2.4878	IE	2.4878	0.1929	-1.9786	3.3848	IE	3.3848	0.2625	-2.6921		
	Wales post-1990	0.2848	2.3125	IE	2.3125	0.1688	-0.8206	0.6587	IE	0.6587	0.0481	-0.2337		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1996

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,452.5584	0.0167	-0.0064	0.0104	IE,NO	-0.3996	174.6522	-66.4268	108.2254	IE,NO	-4,177.3591
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0653	174.6522	NA,NO	174.6522	IE,NO	-390.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.6000	NA	NA	NA	IE	-390.0000
2. Land converted to Cropland ⁽⁶⁾		4,480.8181	IE,NO	-0.0148	-0.0148	IE,NO	-0.8452	IE,NO	-66.4268	-66.4268	IE,NO	-3,787.3591
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0328	IE,NO	IE,NO	IE,NO	IE	-2.3519
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0328	NO	NO	NO	IE	-2.3519
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,331.0574	IE,NO	-0.0151	-0.0151	IE	-0.8870	IE,NO	-65.1911	-65.1911	IE	-3,841.6500
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.4055	NO	NO	NO	IE	-1,050.6946
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.7785	NO	NO	NO	IE	-1,107.9674
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.7300	NO	NO	NO	IE	-172.9500
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.1297	NO	NO	NO	IE	-235.4616
	England post-1990	440.1513	IE	-0.1175	-0.1175	IE	-1.0629	IE	-51.7356	-51.7356	IE	-467.8270
	Scotland post-1990	149.8263	IE	-0.0352	-0.0352	IE	-4.1460	IE	-5.2711	-5.2711	IE	-621.1744
	Wales post-1990	55.6579	IE	-0.0958	-0.0958	IE	-1.7340	IE	-5.3305	-5.3305	IE	-96.5127
	Northern Ireland post-1990	26.0019	IE	-0.1098	-0.1098	IE	-3.4252	IE	-2.8539	-2.8539	IE	-89.0624
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		78.0524	IE,NO	-0.0158	-0.0158	IE,NO	0.7257	IE,NO	-1.2357	-1.2357	IE,NO	56.6427
	England pre-1990	46.8545	NO	NO	NO	IE	0.6548	NO	NO	NO	IE	30.6784
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7323	NO	NO	NO	IE	17.5508
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.7030	NO	NO	NO	IE	0.4460
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	4.3811	IE	-0.1810	-0.1810	IE	1.3199	IE	-0.7932	-0.7932	IE	5.7824
	Scotland post-1990	1.8944	IE	-0.2018	-0.2018	IE	0.9498	IE	-0.3823	-0.3823	IE	1.7993
	Wales post-1990	0.3216	IE	-0.1874	-0.1874	IE	1.1997	IE	-0.0602	-0.0602	IE	0.3858
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1996

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,772.0394	0.0153	-0.0010	0.0143	IE,NO	0.5253	57.8156	-3.7034	54.1123	IE,NO	1,981.4743
1. Grassland remaining Grassland		10.1590	NE	NE	NE	IE,NO	-12.7597	NE	NE	NE	IE,NO	-129.6258
	England peat extraction	6.3950	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-73.1341
	Scotland peat extraction	2.5181	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-28.7969
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,761.8803	0.0154	-0.0010	0.0144	IE,NO	0.5612	57.8156	-3.7034	54.1123	IE,NO	2,111.1001
2.1 Forest Land converted to Grassland		341.5688	IE,NO	IE,NO	IE,NO	IE	-0.0818	IE,NO	IE,NO	IE,NO	IE	-27.9393
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0530	NO	NO	NO	IE	-18.0872
	UK post-1990	0.2646	IE	IE	IE	IE	-37.2402	IE	IE	IE	IE	-9.8521
2.2 Cropland converted to Grassland		3,256.9405	0.0178	IE,NO	0.0178	IE	0.5800	57.8156	IE,NO	57.8156	IE	1,889.0364
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3753	NO	NO	NO	IE	582.0106
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7282	NO	NO	NO	IE	494.7003
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.6451	NO	NO	NO	IE	93.1773
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.9473	NO	NO	NO	IE	282.4076
	England post-1990	386.7588	0.1176	IE	0.1176	IE	0.5750	45.4777	IE	45.4777	IE	222.4028
	Scotland post-1990	117.8713	0.0352	IE	0.0352	IE	0.8727	4.1490	IE	4.1490	IE	102.8608
	Wales post-1990	38.4003	0.0958	IE	0.0958	IE	0.9128	3.6791	IE	3.6791	IE	35.0536
	Northern Ireland post-1990	41.1009	0.1097	IE	0.1097	IE	1.8594	4.5098	IE	4.5098	IE	76.4234
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		163.3711	IE,NO	-0.0227	-0.0227	IE,NO	1.5303	IE,NO	-3.7034	-3.7034	IE,NO	250.0030
	England pre-1990	63.0327	NO	NO	NO	IE	1.3071	NO	NO	NO	IE	82.3879
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.4873	NO	NO	NO	IE	89.4856
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.5747	NO	NO	NO	IE	11.8635
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	23.7825	IE	-0.1097	-0.1097	IE	1.9764	IE	-2.6081	-2.6081	IE	47.0047
	Scotland post-1990	4.7311	IE	-0.1304	-0.1304	IE	1.8700	IE	-0.6171	-0.6171	IE	8.8472
	Wales post-1990	4.1239	IE	-0.1160	-0.1160	IE	2.5253	IE	-0.4782	-0.4782	IE	10.4140
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽²⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.2 Cropland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.3 Grassland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.4 Settlements converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.5 Other Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
E. Total Settlements		1,088.0646	0.0127	IE,NO	0.0127	IE,NO	-1.6420	13.7870	IE,NO	13.7870	IE,NO	-1,786.6531
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,088.0646	0.0127	IE,NO	0.0127	IE,NO	-1.6420	13.7870	IE,NO	13.7870	IE,NO	-1,786.6531
2.1 Forest Land converted to Settlements		51.7186	IE,NO	IE,NO	IE,NO	IE	-0.5823	IE,NO	IE,NO	IE,NO	IE	-30.1169
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.2324	NO	NO	NO	IE	-11.9060
	UK post-1990	0.4890	IE	IE	IE	IE	-37.2402	IE	IE	IE	IE	-18.2108
2.2 Cropland converted to Settlements		280.4953	0.0113	IE,NO	0.0113	IE	-0.9256	3.1691	IE,NO	3.1691	IE	-259.6341
	England pre-1990	225.3365	NO	NO	NO	IE	-0.7658	NO	NO	NO	IE	-172.5548
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.0881	NO	NO	NO	IE	-31.5967
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.2391	NO	NO	NO	IE	-8.3486
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-1.0522	NO	NO	NO	IE	-2.1667
	England post-1990	14.9013	0.1818	IE	0.1818	IE	-2.4826	2.7091	IE	2.7091	IE	-36.9942
	Scotland post-1990	0.8593	0.2026	IE	0.2026	IE	-3.0866	0.1741	IE	0.1741	IE	-2.6522
	Wales post-1990	1.2784	0.1875	IE	0.1875	IE	-3.3768	0.2396	IE	0.2396	IE	-4.3168
	Northern Ireland post-1990	0.2839	0.1631	IE	0.1631	IE	-3.5375	0.0463	IE	0.0463	IE	-1.0042
2.3 Grassland converted to Settlements		755.8508	0.0140	IE,NO	0.0140	IE	-1.9804	10.6179	IE,NO	10.6179	IE	-1,496.9021
	England pre-1990	445.9785	NO	NO	NO	IE	-1.2250	NO	NO	NO	IE	-546.3278
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.8224	NO	NO	NO	IE	-284.8131
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.6885	NO	NO	NO	IE	-120.7155
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-2.2826	NO	NO	NO	IE	-98.6803
	England post-1990	59.2288	0.1098	IE	0.1098	IE	-3.5186	6.5058	IE	6.5058	IE	-208.4024
	Scotland post-1990	15.5470	0.1303	IE	0.1303	IE	-8.6546	2.0253	IE	2.0253	IE	-134.5532
	Wales post-1990	12.4338	0.1160	IE	0.1160	IE	-4.3870	1.4427	IE	1.4427	IE	-54.5470
	Northern Ireland post-1990	7.0264	0.0917	IE	0.0917	IE	-6.9541	0.6441	IE	0.6441	IE	-48.8629
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1996

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1996

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1996

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1996

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	3,339,000.0000	0.1238	413.2260
B. Cropland ⁽⁴⁾	1,944,499.4193	0.1238	240.6462
Limestone CaCO ₃	1,228,196.8480	0.1200	147.3836
Dolomite CaMg(CO ₃) ₂	716,302.5714	0.1302	93.2626
C. Grassland ⁽⁴⁾	1,394,500.5807	0.1238	172.5798
Limestone CaCO ₃	880,803.1520	0.1200	105.6964
Dolomite CaMg(CO ₃) ₂	513,697.4286	0.1302	66.8834
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1996

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	72,342,204.6543	0.0016	0.0000	0.0000	119.3646	0.5209	0.0036
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Controlled Burning	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Wildfires	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	25,397,300.2297	0.0016	0.0000	0.0000	41.9055	0.1829	0.0013
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	25,397,300.2297	0.0016	0.0000	0.0000	41.9055	0.1829	0.0013
Controlled Burning	Biomass burned	kg dm	25,397,300.2297	0.0016	0.0000	0.0000	41.9055	0.1829	0.0013
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
Controlled Burning	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	46,944,904.4246	0.0016	0.0000	0.0000	77.4591	0.3380	0.0023
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1997

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	501.5962	0.5444	0.0037	0.1353	4.7636
A. Forest Land	-13,511.5946	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,511.5946	NE,NO	NE,NO	NO	NO
B. Cropland	15,543.0266	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	752.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,148.4050	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-6,892.8363	0.1517	0.0010	0.0377	1.3277
1. Grassland remaining Grassland	419.9474	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,017.4819	0.1517	0.0010	0.0377	1.3277
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,559.9221	0.3927	0.0027	0.0976	3.4359
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,469.9355	IE	IE	0.0976	3.4359
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-1,196.9216	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-1,196.9216	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	351.4755	0.5444	0.0037	0.1353	4.7636
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1997

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,349.6896	1.1156	IE,NO	1.1156	0.1851	0.2676	2,621.4076	IE,NO	2,621.4076	434.8256	628.7472		
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,527.6896	1.7159	IE,NO	1.7159	0.2846	0.4116	2,621.4076	IE,NO	2,621.4076	434.8256	628.7472		
2.1 Cropland converted to Forest Land		94.0070	1.5970	IE	1.5970	0.2570	0.3851	150.1311	IE	150.1311	24.1568	36.2058		
	England pre-1990	53.4582	1.2052	IE	1.2052	0.2549	0.6976	64.4279	IE	64.4279	13.6275	37.2947		
	Scotland pre-1990	23.2287	1.9093	IE	1.9093	0.2814	0.6106	44.3506	IE	44.3506	6.5364	14.1841		
	Wales pre-1990	3.0016	0.7196	IE	0.7196	0.4176	0.7446	2.1600	IE	2.1600	1.2533	2.2351		
	Northern Ireland pre-	0.2230	1.7115	IE	1.7115	0.4043	0.6869	0.3816	IE	0.3816	0.0901	0.1532		
	England post-1990	8.1511	2.8495	IE	2.8495	0.1902	-0.9017	23.2268	IE	23.2268	1.5506	-7.3502		
	Scotland post-1990	5.6049	2.6297	IE	2.6297	0.1861	-1.7952	14.7393	IE	14.7393	1.0432	-10.0617		
	Wales post-1990	0.3206	2.4444	IE	2.4444	0.1596	-0.6615	0.7837	IE	0.7837	0.0512	-0.2121		
	Northern Ireland post	0.0189	3.2430	IE	3.2430	0.2347	-1.9738	0.0612	IE	0.0612	0.0044	-0.0372		
2.2 Grassland converted to Forest Land		1,397.3923	1.7187	IE	1.7187	0.2870	0.4160	2,401.7488	IE	2,401.7488	401.0863	581.2698		
	England pre-1990	269.1861	1.2052	IE	1.2052	0.2549	0.6976	324.4235	IE	324.4235	68.6206	187.7953		
	Scotland pre-1990	773.0587	1.9093	IE	1.9093	0.2814	0.6106	1,476.0001	IE	1,476.0001	217.5323	472.0503		
	Wales pre-1990	147.8824	0.7196	IE	0.7196	0.4176	0.7446	106.4190	IE	106.4190	61.7487	110.1183		
	Northern Ireland pre-	65.0070	1.7115	IE	1.7115	0.4043	0.6869	111.2613	IE	111.2613	26.2821	44.6533		
	England post-1990	21.4211	2.8495	IE	2.8495	0.1902	-0.9017	61.0398	IE	61.0398	4.0750	-19.3162		
	Scotland post-1990	107.7648	2.6297	IE	2.6297	0.1861	-1.7952	283.3922	IE	283.3922	20.0582	-193.4558		
	Wales post-1990	3.9824	2.4444	IE	2.4444	0.1596	-0.6615	9.7348	IE	9.7348	0.6357	-2.6343		
	Northern Ireland post	9.0897	3.2430	IE	3.2430	0.2347	-1.9738	29.4781	IE	29.4781	2.1338	-17.9411		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		36.2904	1.9159	IE,NO	1.9159	0.2640	0.3106	69.5276	IE,NO	69.5276	9.5825	11.2716		
	England pre-1990	6.0357	1.2052	IE	1.2052	0.2549	0.6976	7.2743	IE	7.2743	1.5386	4.2108		
	Scotland pre-1990	22.1996	1.9093	IE	1.9093	0.2814	0.6106	42.3856	IE	42.3856	6.2468	13.5557		
	Wales pre-1990	1.2340	0.7196	IE	0.7196	0.4176	0.7446	0.8880	IE	0.8880	0.5153	0.9189		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	5.0078	2.8495	IE	2.8495	0.1902	-0.9017	14.2697	IE	14.2697	0.9526	-4.5157		
	Scotland post-1990	1.4983	2.6297	IE	2.6297	0.1861	-1.7952	3.9401	IE	3.9401	0.2789	-2.6897		
	Wales post-1990	0.3150	2.4444	IE	2.4444	0.1596	-0.6615	0.7699	IE	0.7699	0.0503	-0.2083		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 1997

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,549.4490	0.0166	-0.0063	0.0103	IE,NO	-0.3955	174.6522	-66.4268	108.2254	IE,NO	-4,172.2291
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0636	174.6522	NA,NO	174.6522	IE,NO	-380.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.5333	NA	NA	NA	IE	-380.0000
2. Land converted to Cropland ⁽⁶⁾		4,577.7087	IE,NO	-0.0145	-0.0145	IE,NO	-0.8284	IE,NO	-66.4268	-66.4268	IE,NO	-3,792.2291
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0311	IE,NO	IE,NO	IE,NO	IE	-2.2299
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0311	NO	NO	NO	IE	-2.2299
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,427.0056	IE,NO	-0.0147	-0.0147	IE	-0.8689	IE,NO	-65.1911	-65.1911	IE	-3,846.6173
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.3838	NO	NO	NO	IE	-994.5800
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.6823	NO	NO	NO	IE	-1,048.0584
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.6906	NO	NO	NO	IE	-163.6122
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.0702	NO	NO	NO	IE	-223.0425
	England post-1990	503.0300	IE	-0.1028	-0.1028	IE	-1.0342	IE	-51.7356	-51.7356	IE	-520.2296
	Scotland post-1990	171.2300	IE	-0.0308	-0.0308	IE	-4.0340	IE	-5.2711	-5.2711	IE	-690.7364
	Wales post-1990	63.6090	IE	-0.0838	-0.0838	IE	-1.6872	IE	-5.3305	-5.3305	IE	-107.3209
	Northern Ireland post-1990	29.7164	IE	-0.0960	-0.0960	IE	-3.3327	IE	-2.8539	-2.8539	IE	-99.0372
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		78.9948	IE,NO	-0.0156	-0.0156	IE,NO	0.7167	IE,NO	-1.2357	-1.2357	IE,NO	56.6181
	England pre-1990	46.8545	NO	NO	NO	IE	0.6366	NO	NO	NO	IE	29.8274
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7245	NO	NO	NO	IE	17.3640
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.6831	NO	NO	NO	IE	0.4334
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	5.0070	IE	-0.1584	-0.1584	IE	1.3009	IE	-0.7932	-0.7932	IE	6.5134
	Scotland post-1990	2.1650	IE	-0.1766	-0.1766	IE	0.9447	IE	-0.3823	-0.3823	IE	2.0453
	Wales post-1990	0.3675	IE	-0.1639	-0.1639	IE	1.1826	IE	-0.0602	-0.0602	IE	0.4346
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1997

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,858.7842	0.0150	-0.0010	0.0140	IE,NO	0.5254	57.8156	-3.7034	54.1123	IE,NO	2,027.4265
1. Grassland remaining Grassland		8.8391	NE	NE	NE	IE,NO	-12.9573	NE	NE	NE	IE,NO	-114.5311
	England peat extraction	5.9761	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-68.3439
	Scotland peat extraction	1.6170	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-18.4924
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,849.9451	0.0150	-0.0010	0.0141	IE,NO	0.5564	57.8156	-3.7034	54.1123	IE,NO	2,141.9576
2.1 Forest Land converted to Grassland		341.5238	IE,NO	IE,NO	IE,NO	IE	-0.0756	IE,NO	IE,NO	IE,NO	IE	-25.8217
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0502	NO	NO	NO	IE	-17.1239
	UK post-1990	0.2195	IE	IE	IE	IE	-39.6194	IE	IE	IE	IE	-8.6978
2.2 Cropland converted to Grassland		3,340.3878	0.0173	IE,NO	0.0173	IE	0.5727	57.8156	IE,NO	57.8156	IE	1,912.9392
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3646	NO	NO	NO	IE	565.4331
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7204	NO	NO	NO	IE	489.4161
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.6266	NO	NO	NO	IE	90.4996
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.9209	NO	NO	NO	IE	274.5508
	England post-1990	442.0100	0.1029	IE	0.1029	IE	0.5668	45.4777	IE	45.4777	IE	250.5330
	Scotland post-1990	134.7100	0.0308	IE	0.0308	IE	0.8680	4.1490	IE	4.1490	IE	116.9257
	Wales post-1990	43.8860	0.0838	IE	0.0838	IE	0.8998	3.6791	IE	3.6791	IE	39.4878
	Northern Ireland post-1990	46.9724	0.0960	IE	0.0960	IE	1.8328	4.5098	IE	4.5098	IE	86.0931
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		168.0336	IE,NO	-0.0220	-0.0220	IE,NO	1.5166	IE,NO	-3.7034	-3.7034	IE,NO	254.8401
	England pre-1990	63.0327	NO	NO	NO	IE	1.2699	NO	NO	NO	IE	80.0422
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.4714	NO	NO	NO	IE	88.5316
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.5300	NO	NO	NO	IE	11.5269
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	27.1800	IE	-0.0960	-0.0960	IE	1.9482	IE	-2.6081	-2.6081	IE	52.9510
	Scotland post-1990	5.4070	IE	-0.1141	-0.1141	IE	1.8600	IE	-0.6171	-0.6171	IE	10.0570
	Wales post-1990	4.7130	IE	-0.1015	-0.1015	IE	2.4892	IE	-0.4782	-0.4782	IE	11.7314
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.2 Cropland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.3 Grassland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
E. Total Settlements		1,104.0806	0.0125	IE,NO	0.0125	IE,NO	-1.6107	13.7870	IE,NO	13.7870	IE,NO	-1,778.3149
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,104.0806	0.0125	IE,NO	0.0125	IE,NO	-1.6107	13.7870	IE,NO	13.7870	IE,NO	-1,778.3149
2.1 Forest Land converted to Settlements		51.7976	IE,NO	IE,NO	IE,NO	IE	-0.6521	IE,NO	IE,NO	IE,NO	IE	-33.7796
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.2200	NO	NO	NO	IE	-11.2719
	UK post-1990	0.5681	IE	IE	IE	IE	-39.6193	IE	IE	IE	IE	-22.5076
2.2 Cropland converted to Settlements		282.9699	0.0112	IE,NO	0.0112	IE	-0.8954	3.1691	IE,NO	3.1691	IE	-253.3599
	England pre-1990	225.3365	NO	NO	NO	IE	-0.7255	NO	NO	NO	IE	-163.4834
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-1.0303	NO	NO	NO	IE	-29.9202
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.1729	NO	NO	NO	IE	-7.9028
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.9971	NO	NO	NO	IE	-2.0532
	England post-1990	17.0300	0.1591	IE	0.1591	IE	-2.4154	2.7091	IE	2.7091	IE	-41.1340
	Scotland post-1990	0.9820	0.1773	IE	0.1773	IE	-3.0031	0.1741	IE	0.1741	IE	-2.9491
	Wales post-1990	1.4610	0.1640	IE	0.1640	IE	-3.2858	0.2396	IE	0.2396	IE	-4.8005
	Northern Ireland post-1990	0.3244	0.1427	IE	0.1427	IE	-3.4417	0.0463	IE	0.0463	IE	-1.1166
2.3 Grassland converted to Settlements		769.3131	0.0138	IE,NO	0.0138	IE	-1.9383	10.6179	IE,NO	10.6179	IE	-1,491.1754
	England pre-1990	445.9785	NO	NO	NO	IE	-1.1600	NO	NO	NO	IE	-517.3266
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.6733	NO	NO	NO	IE	-269.7681
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.5981	NO	NO	NO	IE	-114.2544
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-2.1620	NO	NO	NO	IE	-93.4696
	England post-1990	67.6900	0.0961	IE	0.0961	IE	-3.4235	6.5058	IE	6.5058	IE	-231.7367
	Scotland post-1990	17.7680	0.1140	IE	0.1140	IE	-8.4213	2.0253	IE	2.0253	IE	-149.6298
	Wales post-1990	14.2100	0.1015	IE	0.1015	IE	-4.2685	1.4427	IE	1.4427	IE	-60.6554
	Northern Ireland post-1990	8.0302	0.0802	IE	0.0802	IE	-6.7663	0.6441	IE	0.6441	IE	-54.3348
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

(1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.F.2.1 Forest Land converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.2 Cropland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.3 Grassland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.4 Wetlands converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.5 Settlements converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1997

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1997

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1997

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1997

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied (Mg/yr)	Carbon emissions per unit of lime (Mg C/Mg)	Carbon (Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	2,969,000.0000	0.1237	367.1940
B. Cropland ⁽⁴⁾	1,415,016.5057	0.1237	175.0036
Limestone CaCO ₃	905,057.7111	0.1200	108.6069
Dolomite CaMg(CO ₃) ₂	509,958.7946	0.1302	66.3966
C. Grassland ⁽⁴⁾	1,553,983.4943	0.1237	192.1904
Limestone CaCO ₃	993,942.2889	0.1200	119.2731
Dolomite CaMg(CO ₃) ₂	560,041.2054	0.1302	72.9174
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1997

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	75,612,664.0172	0.0017	0.0000	0.0000	124.7609	0.5444	0.0037
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	21,075,303.5239	0.0017	0.0000	0.0000	34.7743	0.1517	0.0010
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	21,075,303.5239	0.0017	0.0000	0.0000	34.7743	0.1517	0.0010
<i>Controlled Burning</i>	Biomass burned	kg dm	21,075,303.5239	0.0017	0.0000	0.0000	34.7743	0.1517	0.0010
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	54,537,360.4933	0.0017	0.0000	0.0000	89.9866	0.3927	0.0027
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1998

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-53.0908	0.5448	0.0037	0.1354	4.7670
A. Forest Land	-13,406.2144	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,406.2144	NE,NO	NE,NO	NO	NO
B. Cropland	15,428.3246	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	716.2752	NA	NA	NO	NO
2. Land converted to Cropland	14,166.4714	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,290.8038	0.1585	0.0011	0.0394	1.3867
1. Grassland remaining Grassland	314.5630	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,117.8348	0.1585	0.0011	0.0394	1.3867
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,521.4715	0.3863	0.0027	0.0960	3.3803
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,432.9406	IE	IE	0.0960	3.3803
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-1,305.8687	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-1,305.8687	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	356.4993	0.5448	0.0037	0.1354	4.7670
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
• Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
• If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1998
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,366.9406	1.0827	IE,NO	1.0827	0.1881	0.2739	2,562.6949	IE,NO	2,562.6949	445.2691	648.2763
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,544.9406	1.6588	IE,NO	1.6588	0.2882	0.4196	2,562.6949	IE,NO	2,562.6949	445.2691	648.2763
2.1 Cropland converted to Forest Land		95.6324	1.5435	IE	1.5435	0.2670	0.3883	147.6094	IE	147.6094	25.5318	37.1347
	England pre-1990	53.4582	1.0849	IE	1.0849	0.2774	0.6902	57.9942	IE	57.9942	14.8303	36.8993
	Scotland pre-1990	23.2287	1.8578	IE	1.8578	0.2811	0.6316	43.1555	IE	43.1555	6.5294	14.6705
	Wales pre-1990	3.0016	0.5567	IE	0.5567	0.4266	0.7398	1.6709	IE	1.6709	1.2804	2.2204
	Northern Ireland pre-	0.2230	1.5945	IE	1.5945	0.4104	0.6843	0.3555	IE	0.3555	0.0915	0.1526
	England post-1990	9.1770	2.9457	IE	2.9457	0.1794	-0.7136	27.0325	IE	27.0325	1.6460	-6.5482
	Scotland post-1990	6.1743	2.6624	IE	2.6624	0.1775	-1.6255	16.4381	IE	16.4381	1.0956	-10.0365
	Wales post-1990	0.3491	2.5652	IE	2.5652	0.1553	-0.5419	0.8956	IE	0.8956	0.0542	-0.1892
	Northern Ireland post	0.0206	3.2575	IE	3.2575	0.2157	-1.6613	0.0670	IE	0.0670	0.0044	-0.0342
2.2 Grassland converted to Forest Land		1,412.2073	1.6603	IE	1.6603	0.2903	0.4241	2,344.7254	IE	2,344.7254	409.9389	598.9340
	England pre-1990	269.1861	1.0849	IE	1.0849	0.2774	0.6902	292.0270	IE	292.0270	74.6771	185.8045
	Scotland pre-1990	773.0587	1.8578	IE	1.8578	0.2811	0.6316	1,436.2264	IE	1,436.2264	217.2995	488.2367
	Wales pre-1990	147.8824	0.5567	IE	0.5567	0.4266	0.7398	82.3237	IE	82.3237	63.0833	109.3977
	Northern Ireland pre-	65.0070	1.5945	IE	1.5945	0.4104	0.6843	103.6561	IE	103.6561	26.6777	44.4831
	England post-1990	24.1170	2.9457	IE	2.9457	0.1794	-0.7136	71.0412	IE	71.0412	4.3257	-17.2087
	Scotland post-1990	118.7122	2.6624	IE	2.6624	0.1775	-1.6255	316.0541	IE	316.0541	21.0656	-192.9713
	Wales post-1990	4.3369	2.5652	IE	2.5652	0.1553	-0.5419	11.1250	IE	11.1250	0.6734	-2.3501
	Northern Ireland post	9.9070	3.2575	IE	3.2575	0.2157	-1.6612	32.2719	IE	32.2719	2.1365	-16.4580
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		37.1008	1.8965	IE,NO	1.8965	0.2641	0.3290	70.3602	IE,NO	70.3602	9.7983	12.2077
	England pre-1990	6.0357	1.0849	IE	1.0849	0.2774	0.6902	6.5479	IE	6.5479	1.6744	4.1661
	Scotland pre-1990	22.1996	1.8578	IE	1.8578	0.2811	0.6316	41.2435	IE	41.2435	6.2401	14.0205
	Wales pre-1990	1.2340	0.5567	IE	0.5567	0.4266	0.7398	0.6870	IE	0.6870	0.5264	0.9129
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	5.6380	2.9457	IE	2.9457	0.1794	-0.7136	16.6078	IE	16.6078	1.0113	-4.0230
	Scotland post-1990	1.6505	2.6624	IE	2.6624	0.1775	-1.6255	4.3942	IE	4.3942	0.2929	-2.6829
	Wales post-1990	0.3430	2.5652	IE	2.5652	0.1553	-0.5419	0.8799	IE	0.8799	0.0533	-0.1859
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 1998
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,646.3397	0.0164	-0.0062	0.0102	IE,NO	-0.3914	174.6522	-66.4268	108.2254	IE,NO	-4,167.1563
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0620	174.6522	NA,NO	174.6522	IE,NO	-370.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.4667	NA	NA	NA	IE	-370.0000
2. Land converted to Cropland ⁽⁶⁾		4,674.5993	IE,NO	-0.0142	-0.0142	IE,NO	-0.8123	IE,NO	-66.4268	-66.4268	IE,NO	-3,797.1563
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0295	IE,NO	IE,NO	IE,NO	IE	-2,115.0
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0295	NO	NO	NO	IE	-2,115.0
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,522.9537	IE,NO	-0.0144	-0.0144	IE	-0.8516	IE,NO	-65.1911	-65.1911	IE	-3,851.6377
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.3635	NO	NO	NO	IE	-941.7482
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.5918	NO	NO	NO	IE	-991.6982
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.6535	NO	NO	NO	IE	-154.8272
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-1.0140	NO	NO	NO	IE	-211.3405
	England post-1990	565.9088	IE	-0.0914	-0.0914	IE	-1.0067	IE	-51.7356	-51.7356	IE	-569.6790
	Scotland post-1990	192.6338	IE	-0.0274	-0.0274	IE	-3.9265	IE	-5.2711	-5.2711	IE	-756.3752
	Wales post-1990	71.5601	IE	-0.0745	-0.0745	IE	-1.6423	IE	-5.3305	-5.3305	IE	-117.5196
	Northern Ireland post-1990	33.4310	IE	-0.0854	-0.0854	IE	-3.2440	IE	-2.8539	-2.8539	IE	-108.4497
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		79.9373	IE,NO	-0.0155	-0.0155	IE,NO	0.7080	IE,NO	-1.2357	-1.2357	IE,NO	56.5964
	England pre-1990	46.8545	NO	NO	NO	IE	0.6190	NO	NO	NO	IE	29.0024
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7168	NO	NO	NO	IE	17.1793
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.6639	NO	NO	NO	IE	0.4213
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	5.6329	IE	-0.1408	-0.1408	IE	1.2823	IE	-0.7932	-0.7932	IE	7.2228
	Scotland post-1990	2.4356	IE	-0.1569	-0.1569	IE	0.9397	IE	-0.3823	-0.3823	IE	2.2887
	Wales post-1990	0.4134	IE	-0.1457	-0.1457	IE	1.1658	IE	-0.0602	-0.0602	IE	0.4820
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1998

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		3,944.3906	0.0147	-0.0009	0.0137	IE,NO	0.5283	57.8156	-3.7034	54.1123	IE,NO	2,083.9577
1. Grassland remaining Grassland		6.3259	NE	NE	NE	IE,NO	-13.5616	NE	NE	NE	IE,NO	-85.7899
	England peat extraction	4.5588	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-52.1352
	Scotland peat extraction	0.5211	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-5.9599
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		3,938.0647	0.0147	-0.0009	0.0137	IE,NO	0.5510	57.8156	-3.7034	54.1123	IE,NO	2,169.7476
2.1 Forest Land converted to Grassland		341.5335	IE,NO	IE,NO	IE,NO	IE	-0.0766	IE,NO	IE,NO	IE,NO	IE	-26.1569
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0475	NO	NO	NO	IE	-16.2168
	UK post-1990	0.2293	IE	IE	IE	IE	-43.3535	IE	IE	IE	IE	-9.9401
2.2 Cropland converted to Grassland		3,423.8351	0.0169	IE,NO	0.0169	IE	0.5656	57.8156	IE,NO	57.8156	IE	1,936.3580
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3542	NO	NO	NO	IE	549.3742
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7128	NO	NO	NO	IE	484.1922
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.6086	NO	NO	NO	IE	87.9064
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.8954	NO	NO	NO	IE	266.9341
	England post-1990	497.2613	0.0915	IE	0.0915	IE	0.5587	45.4777	IE	45.4777	IE	277.8398
	Scotland post-1990	151.5488	0.0274	IE	0.0274	IE	0.8633	4.1490	IE	4.1490	IE	130.8386
	Wales post-1990	49.3718	0.0745	IE	0.0745	IE	0.8870	3.6791	IE	3.6791	IE	43.7923
	Northern Ireland post-1990	52.8440	0.0853	IE	0.0853	IE	1.8068	4.5098	IE	4.5098	IE	95.4805
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		172.6961	IE,NO	-0.0214	-0.0214	IE,NO	1.5029	IE,NO	-3.7034	-3.7034	IE,NO	259.5466
	England pre-1990	63.0327	NO	NO	NO	IE	1.2338	NO	NO	NO	IE	77.7699
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.4558	NO	NO	NO	IE	87.5884
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.4867	NO	NO	NO	IE	11.2009
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	30.5775	IE	-0.0853	-0.0853	IE	1.9205	IE	-2.6081	-2.6081	IE	58.7235
	Scotland post-1990	6.0829	IE	-0.1014	-0.1014	IE	1.8500	IE	-0.6171	-0.6171	IE	11.2536
	Wales post-1990	5.3021	IE	-0.0902	-0.0902	IE	2.4538	IE	-0.4782	-0.4782	IE	13.0104
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.2 Cropland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.3 Grassland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.4 Settlements converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.5 Other Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
E. Total Settlements		1,120.0084	0.0123	IE,NO	0.0123	IE,NO	-1.5788	13.7870	IE,NO	13.7870	IE,NO	-1,768.2253		
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Settlements ⁽⁶⁾		1,120.0084	0.0123	IE,NO	0.0123	IE,NO	-1.5788	13.7870	IE,NO	13.7870	IE,NO	-1,768.2253		
2.1 Forest Land converted to Settlements		51.7885	IE,NO	IE,NO	IE,NO	IE	-0.6740	IE,NO	IE,NO	IE,NO	IE	-34.9054		
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.2084	NO	NO	NO	IE	-10.6748		
	UK post-1990	0.5589	IE	IE	IE	IE	-43.3535	IE	IE	IE	IE	-24.2306		
2.2 Cropland converted to Settlements		285.4446	0.0111	IE,NO	0.0111	IE	-0.8669	3.1691	IE,NO	3.1691	IE	-247.4532		
	England pre-1990	225.3365	NO	NO	NO	IE	-0.6876	NO	NO	NO	IE	-154.9341		
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.9760	NO	NO	NO	IE	-28.3411		
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.1106	NO	NO	NO	IE	-7.4832		
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.9452	NO	NO	NO	IE	-1.9462		
	England post-1990	19.1588	0.1414	IE	0.1414	IE	-2.3509	2.7091	IE	2.7091	IE	-45.0398		
	Scotland post-1990	1.1048	0.1576	IE	0.1576	IE	-2.9230	0.1741	IE	0.1741	IE	-3.2292		
	Wales post-1990	1.6436	0.1458	IE	0.1458	IE	-3.1984	0.2396	IE	0.2396	IE	-5.2570		
	Northern Ireland post-1990	0.3650	0.1268	IE	0.1268	IE	-3.3498	0.0463	IE	0.0463	IE	-1.2227		
2.3 Grassland converted to Settlements		782.7753	0.0136	IE,NO	0.0136	IE	-1.8982	10.6179	IE,NO	10.6179	IE	-1,485.8668		
	England pre-1990	445.9785	NO	NO	NO	IE	-1.0987	NO	NO	NO	IE	-490.0117		
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.5328	NO	NO	NO	IE	-255.5936		
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.5131	NO	NO	NO	IE	-108.1720		
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-2.0485	NO	NO	NO	IE	-88.5602		
	England post-1990	76.1513	0.0854	IE	0.0854	IE	-3.3322	6.5058	IE	6.5058	IE	-253.7540		
	Scotland post-1990	19.9890	0.1013	IE	0.1013	IE	-8.1974	2.0253	IE	2.0253	IE	-163.8579		
	Wales post-1990	15.9863	0.0902	IE	0.0902	IE	-4.1548	1.4427	IE	1.4427	IE	-66.4193		
	Northern Ireland post-1990	9.0340	0.0713	IE	0.0713	IE	-6.5860	0.6441	IE	0.6441	IE	-59.4981		
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

(1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.F.2.1 Forest Land converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.2 Cropland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.3 Grassland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.4 Wetlands converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.5 Settlements converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1998

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1998

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1998

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1998

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	2,329,000.0000	0.1239	288.5580
B. Cropland ⁽⁴⁾	1,200,941.3117	0.1239	148.7940
Limestone CaCO ₃	742,015.6924	0.1200	89.0419
Dolomite CaMg(CO ₃) ₂	458,925.6193	0.1302	59.7521
C. Grassland ⁽⁴⁾	1,128,058.6883	0.1239	139.7640
Limestone CaCO ₃	696,984.3077	0.1200	83.6381
Dolomite CaMg(CO ₃) ₂	431,074.3807	0.1302	56.1259
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1998

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	75,666,132.0177	0.0017	0.0000	0.0000	124.8491	0.5448	0.0037
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	22,010,993.5324	0.0016	0.0000	0.0000	36.3181	0.1585	0.0011
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	22,010,993.5324	0.0016	0.0000	0.0000	36.3181	0.1585	0.0011
<i>Controlled Burning</i>	Biomass burned	kg dm	22,010,993.5324	0.0016	0.0000	0.0000	36.3181	0.1585	0.0011
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	53,655,138.4853	0.0017	0.0000	0.0000	88.5310	0.3863	0.0027
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 1999

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-267.4823	0.7751	0.0053	0.1926	6.7820
A. Forest Land	-13,504.3701	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,504.3701	NE,NO	NE,NO	NO	NO
B. Cropland	15,329.2460	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	679.6086	NA	NA	NO	NO
2. Land converted to Cropland	14,184.6639	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,282.6358	0.3922	0.0027	0.0975	3.4320
1. Grassland remaining Grassland	431.5887	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,136.1810	0.3922	0.0027	0.0975	3.4320
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,458.2846	0.3829	0.0026	0.0951	3.3500
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,370.5476	IE	IE	0.0951	3.3500
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-1,268.0070	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-1,268.0070	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	413.9422	0.7751	0.0053	0.1926	6.7820
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:	
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found. 	
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.	
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.	
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.	
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.	
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.	
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.	

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 1999
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,383.6946	1.0869	IE,NO	1.0869	0.1801	0.2780	2,590.8694	IE,NO	2,590.8694	429.3571	662.7835
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,561.6946	1.6590	IE,NO	1.6590	0.2749	0.4244	2,590.8694	IE,NO	2,590.8694	429.3571	662.7835
2.1 Cropland converted to Forest Land		97.2007	1.5813	IE	1.5813	0.2479	0.3882	153.7071	IE	153.7071	24.0968	37.7306
	England pre-1990	53.4582	1.1128	IE	1.1128	0.2535	0.6776	59.4863	IE	59.4863	13.5542	36.2227
	Scotland pre-1990	23.2287	1.8918	IE	1.8918	0.2592	0.6429	43.9443	IE	43.9443	6.2025	14.9347
	Wales pre-1990	3.0016	0.1890	IE	0.1890	0.4943	0.7348	0.5674	IE	0.5674	1.4837	2.2056
	Northern Ireland pre-	0.2230	1.6051	IE	1.6051	0.3846	0.6777	0.3579	IE	0.3579	0.0858	0.1511
	England post-1990	10.1526	3.0007	IE	3.0007	0.1732	-0.5728	30.4646	IE	30.4646	1.7585	-5.8150
	Scotland post-1990	6.7308	2.6463	IE	2.6463	0.1679	-1.4492	17.8117	IE	17.8117	1.1304	-9.7545
	Wales post-1990	0.3837	2.6154	IE	2.6154	0.1546	-0.4769	1.0036	IE	1.0036	0.0593	-0.1830
	Northern Ireland post	0.0220	3.2444	IE	3.2444	0.1995	-1.4037	0.0715	IE	0.0715	0.0044	-0.0309
2.2 Grassland converted to Forest Land		1,426.6110	1.6569	IE	1.6569	0.2775	0.4291	2,363.7517	IE	2,363.7517	395.9254	612.1434
	England pre-1990	269.1861	1.1128	IE	1.1128	0.2535	0.6776	299.5401	IE	299.5401	68.2515	182.3975
	Scotland pre-1990	773.0587	1.8918	IE	1.8918	0.2592	0.6429	1,462.4773	IE	1,462.4773	200.3624	497.0294
	Wales pre-1990	147.8824	0.1890	IE	0.1890	0.4943	0.7348	27.9540	IE	27.9540	73.0995	108.6666
	Northern Ireland pre-	65.0070	1.6051	IE	1.6051	0.3846	0.6777	104.3456	IE	104.3456	25.0017	44.0566
	England post-1990	26.6810	3.0007	IE	3.0007	0.1732	-0.5728	80.0607	IE	80.0607	4.6214	-15.2819
	Scotland post-1990	129.4129	2.6463	IE	2.6463	0.1679	-1.4492	342.4638	IE	342.4638	21.7344	-187.5494
	Wales post-1990	4.7663	2.6154	IE	2.6154	0.1546	-0.4769	12.4659	IE	12.4659	0.7369	-2.2732
	Northern Ireland post	10.6166	3.2444	IE	3.2444	0.1995	-1.4037	34.4443	IE	34.4443	2.1176	-14.9022
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		37.8830	1.9378	IE,NO	1.9378	0.2464	0.3408	73.4106	IE,NO	73.4106	9.3349	12.9096
	England pre-1990	6.0357	1.1128	IE	1.1128	0.2535	0.6776	6.7163	IE	6.7163	1.5303	4.0897
	Scotland pre-1990	22.1996	1.8918	IE	1.8918	0.2592	0.6429	41.9973	IE	41.9973	5.7537	14.2730
	Wales pre-1990	1.2340	0.1890	IE	0.1890	0.4943	0.7348	0.2333	IE	0.2333	0.6100	0.9068
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	6.2374	3.0007	IE	3.0007	0.1732	-0.5728	18.7164	IE	18.7164	1.0804	-3.5726
	Scotland post-1990	1.7993	2.6463	IE	2.6463	0.1679	-1.4492	4.7614	IE	4.7614	0.3022	-2.6076
	Wales post-1990	0.3770	2.6154	IE	2.6154	0.1546	-0.4769	0.9859	IE	0.9859	0.0583	-0.1798
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 1999
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
						(Mg C/ha)			(Gg C)			
B. Total Cropland		10,743.2303	0.0163	-0.0062	0.0101	IE,NO	-0.3874	174.6522	-66.4268	108.2254	IE,NO	-4,162.1179
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0603	174.6522	NA,NO	174.6522	IE,NO	-360.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.4000	NA	NA	NA	IE	-360.0000
2. Land converted to Cropland ⁽⁶⁾		4,771.4900	IE,NO	-0.0139	-0.0139	IE,NO	-0.7968	IE,NO	-66.4268	-66.4268	IE,NO	-3,802.1179
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0280	IE,NO	IE,NO	IE,NO	IE	-2,0064
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0280	NO	NO	NO	IE	-2,0064
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,618.9019	IE,NO	-0.0141	-0.0141	IE	-0.8350	IE,NO	-65.1911	-65.1911	IE	-3,856.6888
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.3443	NO	NO	NO	IE	-891.9899
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.5067	NO	NO	NO	IE	-938.6578
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.6186	NO	NO	NO	IE	-146.5593
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-0.9611	NO	NO	NO	IE	-200.3106
	England post-1990	628.7875	IE	-0.0823	-0.0823	IE	-0.9802	IE	-51.7356	-51.7356	IE	-616.3574
	Scotland post-1990	214.0375	IE	-0.0246	-0.0246	IE	-3.8233	IE	-5.2711	-5.2711	IE	-818.3329
	Wales post-1990	79.5113	IE	-0.0670	-0.0670	IE	-1.5991	IE	-5.3305	-5.3305	IE	-127.1464
	Northern Ireland post-1990	37.1456	IE	-0.0768	-0.0768	IE	-3.1588	IE	-2.8539	-2.8539	IE	-117.3346
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		80.8797	IE,NO	-0.0153	-0.0153	IE,NO	0.6995	IE,NO	-1.2357	-1.2357	IE,NO	56.5773
	England pre-1990	46.8545	NO	NO	NO	IE	0.6019	NO	NO	NO	IE	28.2024
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7092	NO	NO	NO	IE	16.9967
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.6453	NO	NO	NO	IE	0.4094
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	6.2588	IE	-0.1267	-0.1267	IE	1.2641	IE	-0.7932	-0.7932	IE	7.9115
	Scotland post-1990	2.7063	IE	-0.1412	-0.1412	IE	0.9346	IE	-0.3823	-0.3823	IE	2.5294
	Wales post-1990	0.4594	IE	-0.1311	-0.1311	IE	1.1494	IE	-0.0602	-0.0602	IE	0.5280
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C. SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Grassland

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		4,035.6294	0.0143	-0.0009	0.0134	IE,NO	0.5133	57.8156	-3.7034	54.1123	IE,NO	2,071.6544
1. Grassland remaining Grassland		9.1167	NE	NE	NE	IE,NO	-12.9110	NE	NE	NE	IE,NO	-117.7060
	England peat extraction	5.9615	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-68.1768
	Scotland peat extraction	1.9092	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-21.8344
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		4,026.5127	0.0144	-0.0009	0.0134	IE,NO	0.5437	57.8156	-3.7034	54.1123	IE,NO	2,189.3604
2.1 Forest Land converted to Grassland		341.8717	IE,NO	IE,NO	IE,NO	IE	-0.0997	IE,NO	IE,NO	IE,NO	IE	-34.0708
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0450	NO	NO	NO	IE	-15.3623
	UK post-1990	0.5675	IE	IE	IE	IE	-32.9688	IE	IE	IE	IE	-18.7084
2.2 Cropland converted to Grassland		3,507.2824	0.0165	IE,NO	0.0165	IE	0.5586	57.8156	IE,NO	57.8156	IE	1,959.3050
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3442	NO	NO	NO	IE	533.8162
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.7052	NO	NO	NO	IE	479.0278
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.5912	NO	NO	NO	IE	85.3949
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.8706	NO	NO	NO	IE	259.5495
	England post-1990	552.5125	0.0823	IE	0.0823	IE	0.5508	45.4777	IE	45.4777	IE	304.3494
	Scotland post-1990	168.3875	0.0246	IE	0.0246	IE	0.8587	4.1490	IE	4.1490	IE	144.6012
	Wales post-1990	54.8575	0.0671	IE	0.0671	IE	0.8745	3.6791	IE	3.6791	IE	47.9713
	Northern Ireland post-1990	58.7156	0.0768	IE	0.0768	IE	1.7814	4.5098	IE	4.5098	IE	104.5946
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		177.3586	IE,NO	-0.0209	-0.0209	IE,NO	1.4892	IE,NO	-3.7034	-3.7034	IE,NO	264.1262
	England pre-1990	63.0327	NO	NO	NO	IE	1.1989	NO	NO	NO	IE	75.5683
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.4403	NO	NO	NO	IE	86.6560
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.4448	NO	NO	NO	IE	10.8850
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	33.9750	IE	-0.0768	-0.0768	IE	1.8934	IE	-2.6081	-2.6081	IE	64.3277
	Scotland post-1990	6.7588	IE	-0.0913	-0.0913	IE	1.8402	IE	-0.6171	-0.6171	IE	12.4373
	Wales post-1990	5.8913	IE	-0.0812	-0.0812	IE	2.4192	IE	-0.4782	-0.4782	IE	14.2520
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.2 Cropland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.3 Grassland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.4 Settlements converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.5 Other Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1999

Settlements⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
E. Total Settlements		1,135.9404	0.0121	IE,NO	0.0121	IE,NO	-1.5416	13.7870	IE,NO	13.7870	IE,NO	-1,751.2091
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,135.9404	0.0121	IE,NO	0.0121	IE,NO	-1.5416	13.7870	IE,NO	13.7870	IE,NO	-1,751.2091
2.1 Forest Land converted to Settlements		51.7834	IE,NO	IE,NO	IE,NO	IE	-0.5479	IE,NO	IE,NO	IE,NO	IE	-28.3736
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.1974	NO	NO	NO	IE	-10.1123
	UK post-1990	0.5539	IE	IE	IE	IE	-32.9688	IE	IE	IE	IE	-18.2613
2.2 Cropland converted to Settlements		287.9193	0.0110	IE,NO	0.0110	IE	-0.8401	3.1691	IE,NO	3.1691	IE	-241.8905
	England pre-1990	225.3365	NO	NO	NO	IE	-0.6518	NO	NO	NO	IE	-146.8739
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.9247	NO	NO	NO	IE	-26.8532
	Wales pre-1990	6.7379	NO	NO	NO	IE	-1.0520	NO	NO	NO	IE	-7.0879
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.8962	NO	NO	NO	IE	-1.8454
	England post-1990	21.2875	IE	IE	IE	IE	-2.2889	2.7091	IE	2.7091	IE	-48.7259
	Scotland post-1990	1.2275	0.1418	IE	0.1418	IE	-2.8461	0.1741	IE	0.1741	IE	-3.4936
	Wales post-1990	1.8263	0.1312	IE	0.1312	IE	-3.1145	0.2396	IE	0.2396	IE	-5.6879
	Northern Ireland post-1990	0.4056	0.1142	IE	0.1142	IE	-3.2616	0.0463	IE	0.0463	IE	-1.3228
2.3 Grassland converted to Settlements		796.2376	0.0133	IE,NO	0.0133	IE	-1.8599	10.6179	IE,NO	10.6179	IE	-1,480.9449
	England pre-1990	445.9785	NO	NO	NO	IE	-1.0410	NO	NO	NO	IE	-464.2762
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.4004	NO	NO	NO	IE	-242.2345
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.4329	NO	NO	NO	IE	-102.4442
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-1.9415	NO	NO	NO	IE	-83.9330
	England post-1990	84.6125	0.0769	IE	0.0769	IE	-3.2446	6.5058	IE	6.5058	IE	-274.5356
	Scotland post-1990	22.2100	0.0912	IE	0.0912	IE	-7.9824	2.0253	IE	2.0253	IE	-177.2896
	Wales post-1990	17.7625	0.0812	IE	0.0812	IE	-4.0456	1.4427	IE	1.4427	IE	-71.8600
	Northern Ireland post-1990	10.0378	0.0642	IE	0.0642	IE	-6.4130	0.6441	IE	0.6441	IE	-64.3718
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.

(6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1999

Other land⁽¹⁾

Submission 2006 v1.1

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

⁽¹⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.F.2.1 Forest Land converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.2 Cropland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.3 Grassland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.4 Wetlands converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.5 Settlements converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1999

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1999

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box: Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A Organic Soils:Methodology being developed but emissions small.
5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1999

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1999

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	1,952,000.0000	0.1239	241.8900
B. Cropland ⁽⁴⁾	1,023,336.9522	0.1239	126.8110
Limestone CaCO ₃	630,149.0864	0.1200	75.6179
Dolomite CaMg(CO ₃) ₂	393,187.8659	0.1302	51.1931
C. Grassland ⁽⁴⁾	928,663.0478	0.1239	115.0791
Limestone CaCO ₃	571,850.9136	0.1200	68.6221
Dolomite CaMg(CO ₃) ₂	356,812.1341	0.1302	46.4569
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 1999

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	107,649,999.9215	0.0017	0.0000	0.0000	177.6225	0.7751	0.0053
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	54,476,073.4405	0.0016	0.0000	0.0000	89.8855	0.3922	0.0027
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	54,476,073.4405	0.0016	0.0000	0.0000	89.8855	0.3922	0.0027
<i>Controlled Burning</i>	Biomass burned	kg dm	54,476,073.4405	0.0016	0.0000	0.0000	89.8855	0.3922	0.0027
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	53,173,926.4809	0.0017	0.0000	0.0000	87.7370	0.3829	0.0026
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 2000

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-449.0135	0.9777	0.0067	0.2430	8.5553
A. Forest Land	-13,804.8838	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-13,804.8838	NE,NO	NE,NO	NO	NO
B. Cropland	15,339.0471	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	642.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,203.2373	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,445.6025	0.5885	0.0040	0.1462	5.1498
1. Grassland remaining Grassland	427.0955	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,174.0082	0.5885	0.0040	0.1462	5.1498
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,412.5089	0.3892	0.0027	0.0967	3.4055
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,323.3162	IE	IE	0.0967	3.4055
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-950.0832	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-950.0832	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	464.8177	0.9777	0.0067	0.2430	8.5553
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 2000
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,400.4446	1.1286	IE,NO	1.1286	0.1626	0.2772	2,709.2065	IE,NO	2,709.2065	390.3411	665.4207		
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,578.4446	1.7164	IE,NO	1.7164	0.2473	0.4216	2,709.2065	IE,NO	2,709.2065	390.3411	665.4207		
2.1 Cropland converted to Forest Land		98.9123	1.5231	IE	1.5231	0.2565	0.3837	150.6579	IE	150.6579	25.3667	37.9521		
	England pre-1990	53.4582	0.9508	IE	0.9508	0.2876	0.6653	50.8284	IE	50.8284	15.3728	35.5683		
	Scotland pre-1990	23.2287	1.7397	IE	1.7397	0.2946	0.6494	40.4115	IE	40.4115	6.8432	15.0848		
	Wales pre-1990	3.0016	1.8387	IE	1.8387	-0.0157	0.6666	5.5191	IE	5.5191	-0.0471	2.0008		
	Northern Ireland pre-	0.2230	1.6916	IE	1.6916	0.3421	0.6673	0.3772	IE	0.3772	0.0763	0.1488		
	England post-1990	11.3072	2.9498	IE	2.9498	0.1678	-0.4720	33.3538	IE	33.3538	1.8968	-5.3368		
	Scotland post-1990	7.2415	2.6217	IE	2.6217	0.1594	-1.2837	18.9849	IE	18.9849	1.1540	-9.2959		
	Wales post-1990	0.4286	2.5855	IE	2.5855	0.1548	-0.4417	1.1080	IE	1.1080	0.0663	-0.1893		
	Northern Ireland post	0.0236	3.1787	IE	3.1787	0.1860	-1.2165	0.0749	IE	0.0749	0.0044	-0.0287		
2.2 Grassland converted to Forest Land		1,440.7595	1.7250	IE	1.7250	0.2465	0.4263	2,485.2646	IE	2,485.2646	355.1792	614.1634		
	England pre-1990	269.1861	0.9508	IE	0.9508	0.2876	0.6653	255.9439	IE	255.9439	77.4088	179.1025		
	Scotland pre-1990	773.0587	1.7397	IE	1.7397	0.2946	0.6494	1,344.9070	IE	1,344.9070	227.7431	502.0251		
	Wales pre-1990	147.8824	1.8387	IE	1.8387	-0.0157	0.6666	271.9166	IE	271.9166	-2.3194	98.5771		
	Northern Ireland pre-	65.0070	1.6916	IE	1.6916	0.3421	0.6673	109.9636	IE	109.9636	22.2378	43.3800		
	England post-1990	29.7151	2.9498	IE	2.9498	0.1678	-0.4720	87.6536	IE	87.6536	4.9848	-14.0250		
	Scotland post-1990	139.2317	2.6217	IE	2.6217	0.1594	-1.2837	365.0221	IE	365.0221	22.1879	-178.7320		
	Wales post-1990	5.3234	2.5855	IE	2.5855	0.1548	-0.4417	13.7635	IE	13.7635	0.8238	-2.3511		
	Northern Ireland post	11.3550	3.1787	IE	3.1787	0.1860	-1.2165	36.0942	IE	36.0942	2.1123	-13.8132		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		38.7729	1.8901	IE,NO	1.8901	0.2526	0.3432	73.2840	IE,NO	73.2840	9.7953	13.3052		
	England pre-1990	6.0357	0.9508	IE	0.9508	0.2876	0.6653	5.7388	IE	5.7388	1.7357	4.0159		
	Scotland pre-1990	22.1996	1.7397	IE	1.7397	0.2946	0.6494	38.6211	IE	38.6211	6.5400	14.4164		
	Wales pre-1990	1.2340	1.8387	IE	1.8387	-0.0157	0.6666	2.2691	IE	2.2691	-0.0194	0.8226		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	6.9467	2.9498	IE	2.9498	0.1678	-0.4720	20.4914	IE	20.4914	1.1653	-3.2787		
	Scotland post-1990	1.9358	2.6217	IE	2.6217	0.1594	-1.2837	5.0750	IE	5.0750	0.3085	-2.4850		
	Wales post-1990	0.4210	2.5855	IE	2.5855	0.1548	-0.4417	1.0886	IE	1.0886	0.0652	-0.1860		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 2000
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
						(Mg C/ha)			(Gg C)			
B. Total Cropland		10,840.1209	0.0161	-0.0061	0.0100	IE,NO	-0.3835	174.6522	-66.4268	108.2254	IE,NO	-4.1571834
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0586	174.6522	NA,NO	174.6522	IE,NO	-350.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.3333	NA	NA	NA	IE	-350.0000
2. Land converted to Cropland ⁽⁶⁾		4,868.3806	IE,NO	-0.0136	-0.0136	IE,NO	-0.7820	IE,NO	-66.4268	-66.4268	IE,NO	-3,807.1834
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0266	IE,NO	IE,NO	IE,NO	IE	-1.9040
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0266	NO	NO	NO	IE	-1.9040
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,714.8501	IE,NO	-0.0138	-0.0138	IE	-0.8191	IE,NO	-65.1911	-65.1911	IE	-3,861.8350
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.3262	NO	NO	NO	IE	-845.1100
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.4266	NO	NO	NO	IE	-888.7242
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.5857	NO	NO	NO	IE	-138.7752
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-0.9112	NO	NO	NO	IE	-189.9105
	England post-1990	691.6663	IE	-0.0748	-0.0748	IE	-0.9550	IE	-51.7356	-51.7356	IE	-660.5235
	Scotland post-1990	235.4413	IE	-0.0224	-0.0224	IE	-3.7241	IE	-5.2711	-5.2711	IE	-876.8014
	Wales post-1990	87.4624	IE	-0.0609	-0.0609	IE	-1.5580	IE	-5.3305	-5.3305	IE	-136.2652
	Northern Ireland post-1990	40.8601	IE	-0.0698	-0.0698	IE	-3.0770	IE	-2.8539	-2.8539	IE	-125.7250
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		81.8221	IE,NO	-0.0151	-0.0151	IE,NO	0.6912	IE,NO	-1.2357	-1.2357	IE,NO	56.5556
	England pre-1990	46.8545	NO	NO	NO	IE	0.5854	NO	NO	NO	IE	27.4266
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.7017	NO	NO	NO	IE	16.8162
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.6272	NO	NO	NO	IE	0.3980
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	6.8846	IE	-0.1152	-0.1152	IE	1.2457	IE	-0.7932	-0.7932	IE	8.5762
	Scotland post-1990	2.9769	IE	-0.1284	-0.1284	IE	0.9291	IE	-0.3823	-0.3823	IE	2.7658
	Wales post-1990	0.5053	IE	-0.1192	-0.1192	IE	1.1336	IE	-0.0602	-0.0602	IE	0.5728
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

Grassland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾	
			Increase	Decrease	Net change			Increase	Decrease	Net change			
			(Mg C/ha)					(Gg C)					
C. Total Grassland		4,123.9161	0.0140	-0.0009	0.0131	IE,NO	0.5081	57.8156	-3.7034	54.1123	IE,NO	2,095.4661	
1. Grassland remaining Grassland		9.0096	NE	NE	NE	IE,NO	-12.9285	NE	NE	NE	IE,NO	-116.4806	
	England peat extraction	6.1271	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-70.0706	
	Scotland peat extraction	1.6365	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-18.7152	
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO	
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948	
2. Land converted to Grassland ⁽⁶⁾		4,114.9065	0.0141	-0.0009	0.0132	IE,NO	0.5375	57.8156	-3.7034	54.1123	IE,NO	2,211.9467	
2.1 Forest Land converted to Grassland		342.1557	IE,NO	IE,NO	IE,NO	IE	-0.1122	IE,NO	IE,NO	IE,NO	IE	-38.4034	
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0427	NO	NO	NO	IE	-14.5572	
	UK post-1990	0.8515	IE	IE	IE	IE	-28.0056	IE	IE	IE	IE	-23.8462	
2.2 Cropland converted to Grassland		3,590.7297	0.0161	IE,NO	0.0161	IE	0.5519	57.8156	IE,NO	57.8156	IE	1,981.7724	
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3345	NO	NO	NO	IE	518.7422	
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.6976	NO	NO	NO	IE	473.9224	
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.5744	NO	NO	NO	IE	82.9622	
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.8466	NO	NO	NO	IE	252.3894	
	England post-1990	607.7638	0.0748	IE	0.0748	IE	0.5430	45.4777	IE	45.4777	IE	330.0399	
	Scotland post-1990	185.2263	0.0224	IE	0.0224	IE	0.8542	4.1490	IE	4.1490	IE	158.2246	
	Wales post-1990	60.3433	0.0610	IE	0.0610	IE	0.8623	3.6791	IE	3.6791	IE	52.0364	
	Northern Ireland post-1990	64.5871	0.0698	IE	0.0698	IE	1.7566	4.5098	IE	4.5098	IE	113.4555	
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	
2.4 Settlements converted to Grassland		182.0211	IE,NO	-0.0203	-0.0203	IE,NO	1.4755	IE,NO	-3.7034	-3.7034	IE,NO	268.5776	
	England pre-1990	63.0327	NO	NO	NO	IE	1.1650	NO	NO	NO	IE	73.4352	
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.4249	NO	NO	NO	IE	85.7341	
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.4042	NO	NO	NO	IE	10.5788	
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
	England post-1990	37.3725	IE	-0.0698	-0.0698	IE	1.8667	IE	-2.6081	-2.6081	IE	69.7646	
	Scotland post-1990	7.4346	IE	-0.0830	-0.0830	IE	1.8303	IE	-0.6171	-0.6171	IE	13.6075	
	Wales post-1990	6.4804	IE	-0.0738	-0.0738	IE	2.3852	IE	-0.4782	-0.4782	IE	15.4573	
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.2 Cropland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.3 Grassland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.4 Settlements converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.5 Other Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

Settlements⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
E. Total Settlements		1,151.8865	0.0120	IE,NO	0.0120	IE,NO	-1.5091	13.7870	IE,NO	13.7870	IE,NO	-1,738.3278
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,151.8865	0.0120	IE,NO	0.0120	IE,NO	-1.5091	13.7870	IE,NO	13.7870	IE,NO	-1,738.3278
2.1 Forest Land converted to Settlements		51.7926	IE,NO	IE,NO	IE,NO	IE	-0.4895	IE,NO	IE,NO	IE,NO	IE	-25.3518
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.1870	NO	NO	NO	IE	-9.5823
	UK post-1990	0.5631	IE	IE	IE	IE	-28.0056	IE	IE	IE	IE	-15.7695
2.2 Cropland converted to Settlements		290.3940	0.0109	IE,NO	0.0109	IE	-0.8149	3.1691	IE,NO	3.1691	IE	-236.6307
	England pre-1990	225.3365	NO	NO	NO	IE	-0.6181	NO	NO	NO	IE	-139.2724
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.8764	NO	NO	NO	IE	-25.4508
	Wales pre-1990	6.7379	NO	NO	NO	IE	-0.9967	NO	NO	NO	IE	-6.7156
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.8500	NO	NO	NO	IE	-1.7502
	England post-1990	23.4163	0.1157	IE	0.1157	IE	-2.2286	2.7091	IE	2.7091	IE	-52.1866
	Scotland post-1990	1.3503	0.1289	IE	0.1289	IE	-2.7714	0.1741	IE	0.1741	IE	-3.7421
	Wales post-1990	2.0089	0.1193	IE	0.1193	IE	-3.0347	0.2396	IE	0.2396	IE	-6.0963
	Northern Ireland post-1990	0.4461	0.1038	IE	0.1038	IE	-3.1757	0.0463	IE	0.0463	IE	-1.4167
2.3 Grassland converted to Settlements		809.6999	0.0131	IE,NO	0.0131	IE	-1.8233	10.6179	IE,NO	10.6179	IE	-1,476.3452
	England pre-1990	445.9785	NO	NO	NO	IE	-0.9866	NO	NO	NO	IE	-440.0205
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.2756	NO	NO	NO	IE	-229.6397
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.3575	NO	NO	NO	IE	-97.0484
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-1.8405	NO	NO	NO	IE	-79.5704
	England post-1990	93.0738	0.0699	IE	0.0699	IE	-3.1604	6.5058	IE	6.5058	IE	-294.1517
	Scotland post-1990	24.4310	0.0829	IE	0.0829	IE	-7.7748	2.0253	IE	2.0253	IE	-189.9462
	Wales post-1990	19.5388	0.0738	IE	0.0738	IE	-3.9407	1.4427	IE	1.4427	IE	-76.9958
	Northern Ireland post-1990	11.0416	0.0583	IE	0.0583	IE	-6.2466	0.6441	IE	0.6441	IE	-68.9727
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.

(6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

Other land⁽¹⁾

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(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

(1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.F.2.1 Forest Land converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.2 Cropland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.3 Grassland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.4 Wetlands converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.5 Settlements converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

N₂O emissions from drainage of soils ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

Carbon emissions from agricultural lime application ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	1,748,000.0000	0.1239	216.5940
B. Cropland ⁽⁴⁾	1,084,811.0227	0.1239	134.4185
Limestone CaCO ₃	669,008.1707	0.1200	80.2810
Dolomite CaMg(CO ₃) ₂	415,802.8519	0.1302	54.1375
C. Grassland ⁽⁴⁾	663,188.9773	0.1239	82.1755
Limestone CaCO ₃	408,991.8293	0.1200	49.0790
Dolomite CaMg(CO ₃) ₂	254,197.1481	0.1302	33.0965
G. Other (please specify) ^{(4), (5)}			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2000

Biomass Burning ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	135,798,265.2382	0.0017	0.0000	0.0000	224.0671	0.9777	0.0067
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Controlled Burning	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Wildfires	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	81,742,116.7493	0.0017	0.0000	0.0000	134.8745	0.5885	0.0040
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	81,742,116.7493	0.0017	0.0000	0.0000	134.8745	0.5885	0.0040
Controlled Burning	Biomass burned	kg dm	81,742,116.7493	0.0017	0.0000	0.0000	134.8745	0.5885	0.0040
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
Controlled Burning	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	54,056,148.4889	0.0016	0.0000	0.0000	89.1926	0.3892	0.0027
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 2001

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-602.5357	1.1740	0.0081	0.2917	10.2729
A. Forest Land	-14,347.9995	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-14,347.9995	NE,NO	NE,NO	NO	NO
B. Cropland	15,286.5077	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	620.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,221.7451	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,469.6647	0.7748	0.0053	0.1925	6.7798
1. Grassland remaining Grassland	465.8999	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,216.2479	0.7748	0.0053	0.1925	6.7798
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,373.8510	0.3992	0.0027	0.0992	3.4931
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,282.3646	IE	IE	0.0992	3.4931
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	-445.2302	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	-445.2302	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	513.9973	1.1740	0.0081	0.2917	10.2729
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 2001
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,417.8836	1.2061	IE,NO	1.2061	0.1378	0.2744	2,916.2952	IE,NO	2,916.2952	333.2139	663.5817
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,595.8836	1.8274	IE,NO	1.8274	0.2088	0.4158	2,916.2952	IE,NO	2,916.2952	333.2139	663.5817
2.1 Cropland converted to Forest Land		100.7656	1.6690	IE	1.6690	0.2032	0.3740	168.1749	IE	168.1749	20.4714	37.6827
	England pre-1990	53.4582	1.1643	IE	1.1643	0.2084	0.6462	62.2426	IE	62.2426	11.1421	34.5447
	Scotland pre-1990	23.2287	1.8410	IE	1.8410	0.2579	0.6481	42.7647	IE	42.7647	5.9910	15.0549
	Wales pre-1990	3.0016	1.9080	IE	1.9080	-0.0042	0.6416	5.7271	IE	5.7271	-0.0125	1.9257
	Northern Ireland pre-	0.2230	1.8448	IE	1.8448	0.2815	0.6523	0.4113	IE	0.4113	0.0628	0.1454
	England post-1990	12.6015	2.8365	IE	2.8365	0.1615	-0.3824	35.7436	IE	35.7436	2.0348	-4.8191
	Scotland post-1990	7.7471	2.5861	IE	2.5861	0.1522	-1.1588	20.0346	IE	20.0346	1.1788	-8.9777
	Wales post-1990	0.4802	2.4452	IE	2.4452	0.1460	-0.3438	1.1742	IE	1.1742	0.0701	-0.1651
	Northern Ireland post	0.0253	3.0295	IE	3.0295	0.1703	-1.0323	0.0767	IE	0.0767	0.0043	-0.0261
2.2 Grassland converted to Forest Land		1,455.3641	1.8342	IE	1.8342	0.2090	0.4207	2,669.3994	IE	2,669.3994	304.1299	612.3419
	England pre-1990	269.1861	1.1643	IE	1.1643	0.2084	0.6462	313.4195	IE	313.4195	56.1057	173.9479
	Scotland pre-1990	773.0587	1.8410	IE	1.8410	0.2579	0.6481	1,423.2212	IE	1,423.2212	199.3826	501.0314
	Wales pre-1990	147.8824	1.9080	IE	1.9080	-0.0042	0.6416	282.1664	IE	282.1664	-0.6166	94.8759
	Northern Ireland pre-	65.0070	1.8448	IE	1.8448	0.2815	0.6523	119.9230	IE	119.9230	18.2977	42.4042
	England post-1990	33.1166	2.8365	IE	2.8365	0.1615	-0.3824	93.9339	IE	93.9339	5.3474	-12.6646
	Scotland post-1990	148.9530	2.5861	IE	2.5861	0.1522	-1.1588	385.2039	IE	385.2039	22.6650	-172.6130
	Wales post-1990	5.9650	2.4452	IE	2.4452	0.1460	-0.3438	14.5859	IE	14.5859	0.8709	-2.0511
	Northern Ireland post	12.1953	3.0295	IE	3.0295	0.1703	-1.0323	36.9455	IE	36.9455	2.0774	-12.5888
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		39.7540	1.9802	IE,NO	1.9802	0.2166	0.3410	78.7209	IE,NO	78.7209	8.6125	13.5571
	England pre-1990	6.0357	1.1643	IE	1.1643	0.2084	0.6462	7.0275	IE	7.0275	1.2580	3.9003
	Scotland pre-1990	22.1996	1.8410	IE	1.8410	0.2579	0.6481	40.8700	IE	40.8700	5.7256	14.3879
	Wales pre-1990	1.2340	1.9080	IE	1.9080	-0.0042	0.6416	2.3546	IE	2.3546	-0.0051	0.7917
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	7.7419	2.8365	IE	2.8365	0.1615	-0.3824	21.9596	IE	21.9596	1.2501	-2.9607
	Scotland post-1990	2.0709	2.5861	IE	2.5861	0.1522	-1.1588	5.3556	IE	5.3556	0.3151	-2.3999
	Wales post-1990	0.4718	2.4452	IE	2.4452	0.1460	-0.3438	1.1536	IE	1.1536	0.0689	-0.1622
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Cropland
(Sheet 1 of 1)

Inventory 2001

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		10,937.0115	0.0160	-0.0061	0.0099	IE,NO	-0.3800	174.6522	-66.4268	108.2254	IE,NO	-4,156.2309
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0576	174.6522	NA,NO	174.6522	IE,NO	-344.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.2933	NA	NA	NA	IE	-344.0000
2. Land converted to Cropland ⁽⁶⁾		4,965.2712	IE,NO	-0.0134	-0.0134	IE,NO	-0.7678	IE,NO	-66.4268	-66.4268	IE,NO	-3,812.2309
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0252	IE,NO	IE,NO	IE,NO	IE	-1.8073
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0252	NO	NO	NO	IE	-1.8073
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,810.7983	IE,NO	-0.0136	-0.0136	IE	-0.8038	IE,NO	-65.1911	-65.1911	IE	-3,866.9603
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.3091	NO	NO	NO	IE	-800.9269
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.3511	NO	NO	NO	IE	-841.6991
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.5548	NO	NO	NO	IE	-131.4441
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-0.8641	NO	NO	NO	IE	-180.1009
	England post-1990	754.5450	IE	-0.0686	-0.0686	IE	-0.9307	IE	-51.7356	-51.7356	IE	-702.2359
	Scotland post-1990	256.8450	IE	-0.0205	-0.0205	IE	-3.6288	IE	-5.2711	-5.2711	IE	-932.0269
	Wales post-1990	95.4135	IE	-0.0559	-0.0559	IE	-1.5184	IE	-5.3305	-5.3305	IE	-144.8764
	Northern Ireland post-1990	44.5747	IE	-0.0640	-0.0640	IE	-2.9983	IE	-2.8539	-2.8539	IE	-133.6500
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		82.7646	IE,NO	-0.0149	-0.0149	IE,NO	0.6831	IE,NO	-1.2357	-1.2357	IE,NO	56.5367
	England pre-1990	46.8545	NO	NO	NO	IE	0.5693	NO	NO	NO	IE	26.6743
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.6942	NO	NO	NO	IE	16.6377
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.6097	NO	NO	NO	IE	0.3869
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	7.5105	IE	-0.1056	-0.1056	IE	1.2278	IE	-0.7932	-0.7932	IE	9.2217
	Scotland post-1990	3.2475	IE	-0.1177	-0.1177	IE	0.9237	IE	-0.3823	-0.3823	IE	2.9997
	Wales post-1990	0.5513	IE	-0.1093	-0.1093	IE	1.1181	IE	-0.0602	-0.0602	IE	0.6164
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C.1 SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Grassland

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		4,213.2208	0.0137	-0.0009	0.0128	IE,NO	0.5003	57.8156	-3.7034	54.1123	IE,NO	2,108.0462
1. Grassland remaining Grassland		9,9350	NE	NE	NE	IE,NO	-12.7895	NE	NE	NE	IE,NO	-127.0636
	England peat extraction	7,1061	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-81.2663
	Scotland peat extraction	1,5829	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-18.1025
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1,2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		4,203.2858	0.0138	-0.0009	0.0129	IE,NO	0.5318	57.8156	-3.7034	54.1123	IE,NO	2,235.1098
2.1 Forest Land converted to Grassland		342.4252	IE,NO	IE,NO	IE,NO	IE	-0.1215	IE,NO	IE,NO	IE,NO	IE	-41.5927
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0404	NO	NO	NO	IE	-13.7982
	UK post-1990	1,1210	IE	IE	IE	IE	-24.7944	IE	IE	IE	IE	-27.7945
2.2 Cropland converted to Grassland		3,674.1770	0.0157	IE,NO	0.0157	IE	0.5454	57.8156	IE,NO	57.8156	IE	2,003.7924
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3251	NO	NO	NO	IE	504.1356
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.6902	NO	NO	NO	IE	468.8751
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.5581	NO	NO	NO	IE	80.6056
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.8233	NO	NO	NO	IE	245.4462
	England post-1990	663.0150	0.0686	IE	0.0686	IE	0.5354	45.4777	IE	45.4777	IE	354.9860
	Scotland post-1990	202.0650	0.0205	IE	0.0205	IE	0.8497	4.1490	IE	4.1490	IE	171.7011
	Wales post-1990	65.8290	0.0559	IE	0.0559	IE	0.8504	3.6791	IE	3.6791	IE	55.9832
	Northern Ireland post-1990	70.4587	0.0640	IE	0.0640	IE	1.7324	4.5098	IE	4.5098	IE	122.0597
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		186.6836	IE,NO	-0.0198	-0.0198	IE,NO	1.4619	IE,NO	-3.7034	-3.7034	IE,NO	272.9101
	England pre-1990	63.0327	NO	NO	NO	IE	1.1322	NO	NO	NO	IE	71.3682
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.4098	NO	NO	NO	IE	84.8228
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.3648	NO	NO	NO	IE	10.2822
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	40.7700	IE	-0.0640	-0.0640	IE	1.8407	IE	-2.6081	-2.6081	IE	75.0441
	Scotland post-1990	8.1105	IE	-0.0761	-0.0761	IE	1.8205	IE	-0.6171	-0.6171	IE	14.7651
	Wales post-1990	7.0695	IE	-0.0676	-0.0676	IE	2.3520	IE	-0.4782	-0.4782	IE	16.6277
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽²⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.2 Cropland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.3 Grassland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
E. Total Settlements		1,167.8379	0.0118	IE,NO	0.0118	IE,NO	-1.4789	13.7870	IE,NO	13.7870	IE,NO	-1,727.1592
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,167.8379	0.0118	IE,NO	0.0118	IE,NO	-1.4789	13.7870	IE,NO	13.7870	IE,NO	-1,727.1592
2.1 Forest Land converted to Settlements		51.8071	IE,NO	IE,NO	IE,NO	IE	-0.4517	IE,NO	IE,NO	IE,NO	IE	-23.4031
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.1773	NO	NO	NO	IE	-9.0827
	UK post-1990	0.5776	IE	IE	IE	IE	-24.7944	IE	IE	IE	IE	-14.3204
2.2 Cropland converted to Settlements		292.8687	0.0108	IE,NO	0.0108	IE	-0.7911	3.1691	IE,NO	3.1691	IE	-231.6754
	England pre-1990	225.3365	NO	NO	NO	IE	-0.5862	NO	NO	NO	IE	-132.1011
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.8309	NO	NO	NO	IE	-24.1285
	Wales pre-1990	6.7379	NO	NO	NO	IE	-0.9446	NO	NO	NO	IE	-6.3646
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.8063	NO	NO	NO	IE	-1.6604
	England post-1990	25.5450	0.1061	IE	0.1061	IE	-2.1709	2.7091	IE	2.7091	IE	-55.4564
	Scotland post-1990	1.4730	0.1182	IE	0.1182	IE	-2.6999	0.1741	IE	0.1741	IE	-3.9770
	Wales post-1990	2.1915	0.1093	IE	0.1093	IE	-2.9578	0.2396	IE	0.2396	IE	-6.4820
	Northern Ireland post-1990	0.4867	0.0951	IE	0.0951	IE	-3.0934	0.0463	IE	0.0463	IE	-1.5054
2.3 Grassland converted to Settlements		823.1622	0.0129	IE,NO	0.0129	IE	-1.7883	10.6179	IE,NO	10.6179	IE	-1,472.0807
	England pre-1990	445.9785	NO	NO	NO	IE	-0.9354	NO	NO	NO	IE	-417.1517
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.1579	NO	NO	NO	IE	-217.7613
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.2863	NO	NO	NO	IE	-91.9635
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-1.7454	NO	NO	NO	IE	-75.4557
	England post-1990	101.5350	0.0641	IE	0.0641	IE	-3.0795	6.5058	IE	6.5058	IE	-312.6790
	Scotland post-1990	26.6520	0.0760	IE	0.0760	IE	-7.5756	2.0253	IE	2.0253	IE	-201.9039
	Wales post-1990	21.3150	0.0677	IE	0.0677	IE	-3.8399	1.4427	IE	1.4427	IE	-81.8471
	Northern Ireland post-1990	12.0453	0.0535	IE	0.0535	IE	-6.0869	0.6441	IE	0.6441	IE	-73.3185
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.
5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.
5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

(1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.F.2.1 Forest Land converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.2 Cropland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.3 Grassland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.4 Wetlands converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.5 Settlements converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2001

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2001

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2001

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2001

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	1,599,000.0000	0.1236	197.5920
B. Cropland ⁽⁴⁾	979,524.3580	0.1236	121.0420
Limestone CaCO ₃	636,476.4277	0.1200	76.3772
Dolomite CaMg(CO ₃) ₂	343,047.9303	0.1302	44.6648
C. Grassland ⁽⁴⁾	619,475.6420	0.1236	76.5500
Limestone CaCO ₃	402,523.5723	0.1200	48.3028
Dolomite CaMg(CO ₃) ₂	216,952.0697	0.1302	28.2472
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2001

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	163,062,316.5015	0.0016	0.0000	0.0000	269.0528	1.1740	0.0081
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	107,616,000.0000	0.0017	0.0000	0.0000	177.5664	0.7748	0.0053
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	107,616,000.0000	0.0017	0.0000	0.0000	177.5664	0.7748	0.0053
<i>Controlled Burning</i>	Biomass burned	kg dm	107,616,000.0000	0.0017	0.0000	0.0000	177.5664	0.7748	0.0053
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	55,446,316.5015	0.0016	0.0000	0.0000	91.4864	0.3992	0.0027
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 2002

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-1,124.4246	1.0061	0.0069	0.2500	8.8031
A. Forest Land	-15,045.1597	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-15,045.1597	NE,NO	NE,NO	NO	NO
B. Cropland	15,312.5270	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	598.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,240.1364	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,765.9316	0.6733	0.0046	0.1673	5.8910
1. Grassland remaining Grassland	298.2243	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,329.5332	0.6733	0.0046	0.1673	5.8910
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,326.7214	0.3328	0.0023	0.0827	2.9121
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,250.4533	IE	IE	0.0827	2.9121
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	47.4184	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	47.4184	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	479.4723	1.0061	0.0069	0.2500	8.8031
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 2002
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,436.2346	1.2985	IE,NO	1.2985	0.1110	0.2748	3,163.4661	IE,NO	3,163.4661	270.3725	669.3868		
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,614.2346	1.9597	IE,NO	1.9597	0.1675	0.4147	3,163.4661	IE,NO	3,163.4661	270.3725	669.3868		
2.1 Cropland converted to Forest Land		102.6686	1.8316	IE	1.8316	0.1506	0.3702	188.0499	IE	188.0499	15.4644	38.0125		
	England pre-1990	53.4582	1.4055	IE	1.4055	0.1341	0.6251	75.1368	IE	75.1368	7.1702	33.4164		
	Scotland pre-1990	23.2287	2.0102	IE	2.0102	0.2095	0.6420	46.6937	IE	46.6937	4.8666	14.9124		
	Wales pre-1990	3.0016	1.9938	IE	1.9938	-0.0097	0.6300	5.9846	IE	5.9846	-0.0291	1.8910		
	Northern Ireland pre-	0.2230	1.7171	IE	1.7171	0.3087	0.6441	0.3829	IE	0.3829	0.0688	0.1436		
	England post-1990	13.9003	2.7196	IE	2.7196	0.1540	-0.2824	37.8029	IE	37.8029	2.1413	-3.9260		
	Scotland post-1990	8.3189	2.4934	IE	2.4934	0.1410	-0.9984	20.7420	IE	20.7420	1.1731	-8.3060		
	Wales post-1990	0.5112	2.4036	IE	2.4036	0.1358	-0.1878	1.2288	IE	1.2288	0.0694	-0.0960		
	Northern Ireland post	0.0267	2.9259	IE	2.9259	0.1571	-0.8617	0.0782	IE	0.0782	0.0042	-0.0230		
2.2 Grassland converted to Forest Land		1,470.8307	1.9648	IE	1.9648	0.1685	0.4197	2,889.8708	IE	2,889.8708	247.7621	617.2989		
	England pre-1990	269.1861	1.4055	IE	1.4055	0.1341	0.6251	378.3473	IE	378.3473	36.1051	168.2667		
	Scotland pre-1990	773.0587	2.0102	IE	2.0102	0.2095	0.6420	1,553.9805	IE	1,553.9805	161.9610	496.2899		
	Wales pre-1990	147.8824	1.9938	IE	1.9938	-0.0097	0.6300	294.8532	IE	294.8532	-1.4354	93.1675		
	Northern Ireland pre-	65.0070	1.7171	IE	1.7171	0.3087	0.6441	111.6226	IE	111.6226	20.0656	41.8734		
	England post-1990	36.5299	2.7196	IE	2.7196	0.1540	-0.2824	99.3457	IE	99.3457	5.6273	-10.3174		
	Scotland post-1990	159.9473	2.4934	IE	2.4934	0.1410	-0.9984	398.8054	IE	398.8054	22.5542	-159.6987		
	Wales post-1990	6.3505	2.4036	IE	2.4036	0.1358	-0.1878	15.2638	IE	15.2638	0.8626	-1.1928		
	Northern Ireland post	12.8689	2.9258	IE	2.9258	0.1571	-0.8618	37.6521	IE	37.6521	2.0217	-11.0898		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		40.7352	2.1000	IE,NO	2.1000	0.1754	0.3455	85.5455	IE,NO	85.5455	7.1459	14.0754		
	England pre-1990	6.0357	1.4055	IE	1.4055	0.1341	0.6251	8.4834	IE	8.4834	0.8096	3.7729		
	Scotland pre-1990	22.1996	2.0102	IE	2.0102	0.2095	0.6420	44.6249	IE	44.6249	4.6510	14.2517		
	Wales pre-1990	1.2340	1.9938	IE	1.9938	-0.0097	0.6300	2.4605	IE	2.4605	-0.0120	0.7775		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	8.5398	2.7196	IE	2.7196	0.1540	-0.2824	23.2248	IE	23.2248	1.3155	-2.4120		
	Scotland post-1990	2.2238	2.4934	IE	2.4934	0.1410	-0.9984	5.5447	IE	5.5447	0.3136	-2.2203		
	Wales post-1990	0.5023	2.4036	IE	2.4036	0.1358	-0.1878	1.2072	IE	1.2072	0.0682	-0.0943		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2002

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
						(Mg C/ha)			(Gg C)			
B. Total Cropland		11,033.9021	0.0158	-0.0060	0.0098	IE,NO	-0.3766	174.6522	-66.4268	108.2254	IE,NO	-4,155.2468
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0566	174.6522	NA,NO	174.6522	IE,NO	-338.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.2533	NA	NA	NA	IE	-338.0000
2. Land converted to Cropland ⁽⁶⁾		5,062.1618	IE,NO	-0.0131	-0.0131	IE,NO	-0.7541	IE,NO	-66.4268	-66.4268	IE,NO	-3,817.2468
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0239	IE,NO	IE,NO	IE,NO	IE	-1.7159
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0239	NO	NO	NO	IE	-1.7159
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		4,906.7465	IE,NO	-0.0133	-0.0133	IE	-0.7891	IE,NO	-65.1911	-65.1911	IE	-3,872.0513
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.2930	NO	NO	NO	IE	-759.2712
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.2800	NO	NO	NO	IE	-797.3977
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.5256	NO	NO	NO	IE	-124.5373
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-0.8197	NO	NO	NO	IE	-170.8454
	England post-1990	817.4238	IE	-0.0633	-0.0633	IE	-0.9073	IE	-51.7356	-51.7356	IE	-741.6441
	Scotland post-1990	278.2488	IE	-0.0189	-0.0189	IE	-3.5371	IE	-5.2711	-5.2711	IE	-984.2067
	Wales post-1990	103.3646	IE	-0.0516	-0.0516	IE	-1.4803	IE	-5.3305	-5.3305	IE	-153.0111
	Northern Ireland post-1990	48.2892	IE	-0.0591	-0.0591	IE	-2.9228	IE	-2.8539	-2.8539	IE	-141.1378
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		83.7070	IE,NO	-0.0148	-0.0148	IE,NO	0.6752	IE,NO	-1.2357	-1.2357	IE,NO	56.5205
	England pre-1990	46.8545	NO	NO	NO	IE	0.5537	NO	NO	NO	IE	25.9447
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.6868	NO	NO	NO	IE	16.4613
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.5928	NO	NO	NO	IE	0.3761
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	8.1364	IE	-0.0975	-0.0975	IE	1.2104	IE	-0.7932	-0.7932	IE	9.8486
	Scotland post-1990	3.5181	IE	-0.1087	-0.1087	IE	0.9184	IE	-0.3823	-0.3823	IE	3.2312
	Wales post-1990	0.5972	IE	-0.1009	-0.1009	IE	1.1029	IE	-0.0602	-0.0602	IE	0.6586
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Grassland

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		4,297.1850	0.0135	-0.0009	0.0126	IE,NO	0.5069	57.8156	-3.7034	54.1123	IE,NO	2,178.3234
1. Grassland remaining Grassland		5.9363	NE	NE	NE	IE,NO	-13.7011	NE	NE	NE	IE,NO	-81.3339
	England peat extraction	4.1692	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-47.6792
	Scotland peat extraction	0.5211	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-5.9599
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		4,291.2487	0.0135	-0.0009	0.0126	IE,NO	0.5266	57.8156	-3.7034	54.1123	IE,NO	2,259.6573
2.1 Forest Land converted to Grassland		342.2783	IE,NO	IE,NO	IE,NO	IE	-0.1252	IE,NO	IE,NO	IE,NO	IE	-42.8459
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0383	NO	NO	NO	IE	-13.0825
	UK post-1990	0.9740	IE	IE	IE	IE	-30.5565	IE	IE	IE	IE	-29.7634
2.2 Cropland converted to Grassland		3,757.6243	0.0154	IE,NO	0.0154	IE	0.5390	57.8156	IE,NO	57.8156	IE	2,025.3759
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3159	NO	NO	NO	IE	489.9808
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.6829	NO	NO	NO	IE	463.8852
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.5423	NO	NO	NO	IE	78.3226
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.8007	NO	NO	NO	IE	238.7128
	England post-1990	718.2663	0.0633	IE	0.0633	IE	0.5280	45.4777	IE	45.4777	IE	379.2114
	Scotland post-1990	218.9038	0.0190	IE	0.0190	IE	0.8453	4.1490	IE	4.1490	IE	185.0323
	Wales post-1990	71.3148	0.0516	IE	0.0516	IE	0.8388	3.6791	IE	3.6791	IE	59.8156
	Northern Ireland post-1990	76.3302	0.0591	IE	0.0591	IE	1.7086	4.5098	IE	4.5098	IE	130.4151
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		191.3461	IE,NO	-0.0194	-0.0194	IE,NO	1.4483	IE,NO	-3.7034	-3.7034	IE,NO	277.1274
	England pre-1990	63.0327	NO	NO	NO	IE	1.1005	NO	NO	NO	IE	69.3651
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.3948	NO	NO	NO	IE	83.9218
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.3266	NO	NO	NO	IE	9.9946
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	44.1675	IE	-0.0591	-0.0591	IE	1.8152	IE	-2.6081	-2.6081	IE	80.1712
	Scotland post-1990	8.7864	IE	-0.0702	-0.0702	IE	1.8108	IE	-0.6171	-0.6171	IE	15.9102
	Wales post-1990	7.6586	IE	-0.0624	-0.0624	IE	2.3195	IE	-0.4782	-0.4782	IE	17.7644
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾			
			Increase	Decrease	Net change			Increase	Decrease	Net change					
			(Mg C/ha)					(Gg C)							
D. Total Wetlands															
1. Wetlands remaining Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2. Land converted to Wetlands ⁽⁵⁾															
2.1 Forest Land converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.2 Cropland converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.3 Grassland converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.4 Settlements converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														
2.5 Other Land converted to Wetlands															
	England														
	Scotland														
	Wales														
	Northern Ireland														

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾	
			Increase	Decrease	Net change			Increase	Decrease	Net change			
			(Mg C/ha)					(Gg C)					
E. Total Settlements		1,183.6788	0.0116	IE,NO	0.0116	IE,NO	-1.4518	13.7870	IE,NO	13.7870	IE,NO	-1,718.4561	
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2. Land converted to Settlements ⁽⁶⁾		1,183.6788	0.0116	IE,NO	0.0116	IE,NO	-1.4518	13.7870	IE,NO	13.7870	IE,NO	-1,718.4561	
2.1 Forest Land converted to Settlements		51.7110	IE,NO	IE,NO	IE,NO	IE	-0.4510	IE,NO	IE,NO	IE,NO	IE	-23.3242	
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.1681	NO	NO	NO	IE	-8.6115	
	UK post-1990	0.4815	IE	IE	IE	IE	-30.5565	IE	IE	IE	IE	-14.7127	
2.2 Cropland converted to Settlements		295.3433	0.0107	IE,NO	0.0107	IE	-0.7686	3.1691	IE,NO	3.1691	IE	-227.0053	
	England pre-1990	225.3365	NO	NO	NO	IE	-0.5562	NO	NO	NO	IE	-125.3333	
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.7880	NO	NO	NO	IE	-22.8813	
	Wales pre-1990	6.7379	NO	NO	NO	IE	-0.8955	NO	NO	NO	IE	-6.0338	
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.7652	NO	NO	NO	IE	-1.5756	
	England post-1990	27.6738	0.0979	IE	0.0979	IE	-2.1156	2.7091	IE	2.7091	IE	-58.5467	
	Scotland post-1990	1.5958	0.1091	IE	0.1091	IE	-2.6313	0.1741	IE	0.1741	IE	-4.1989	
	Wales post-1990	2.3741	0.1009	IE	0.1009	IE	-2.8837	0.2396	IE	0.2396	IE	-6.8464	
	Northern Ireland post-1990	0.5272	0.0878	IE	0.0878	IE	-3.0145	0.0463	IE	0.0463	IE	-1.5893	
2.3 Grassland converted to Settlements		836.6245	0.0127	IE,NO	0.0127	IE	-1.7548	10.6179	IE,NO	10.6179	IE	-1,468.1266	
	England pre-1990	445.9785	NO	NO	NO	IE	-0.8870	NO	NO	NO	IE	-395.5831	
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-2.0469	NO	NO	NO	IE	-206.5550	
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.2193	NO	NO	NO	IE	-87.1702	
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-1.6556	NO	NO	NO	IE	-71.5737	
	England post-1990	109.9963	0.0591	IE	0.0591	IE	-3.0018	6.5058	IE	6.5058	IE	-330.1836	
	Scotland post-1990	28.8730	0.0701	IE	0.0701	IE	-7.3842	2.0253	IE	2.0253	IE	-213.2050	
	Wales post-1990	23.0913	0.0625	IE	0.0625	IE	-3.7430	1.4427	IE	1.4427	IE	-86.4311	
	Northern Ireland post-1990	13.0491	0.0494	IE	0.0494	IE	-5.9333	0.6441	IE	0.6441	IE	-77.4249	
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

(1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.F.2.1 Forest Land converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.2 Cropland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.3 Grassland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.4 Wetlands converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.5 Settlements converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2002

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2002

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2002

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2002

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	1,629,000.0000	0.1237	201.4980
B. Cropland ⁽⁴⁾	1,043,882.9876	0.1237	129.1224
Limestone CaCO ₃	665,803.8208	0.1200	79.8965
Dolomite CaMg(CO ₃) ₂	378,079.1668	0.1302	49.2259
C. Grassland ⁽⁴⁾	585,117.0124	0.1237	72.3756
Limestone CaCO ₃	373,196.1792	0.1200	44.7835
Dolomite CaMg(CO ₃) ₂	211,920.8332	0.1302	27.5921
G. Other (please specify) ^{(4), (5)}			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2002

Biomass Burning ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	139,731,353.3426	0.0016	0.0000	0.0000	230.5567	1.0061	0.0069
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	93,508,266.9246	0.0016	0.0000	0.0000	154.2886	0.6733	0.0046
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	93,508,266.9246	0.0016	0.0000	0.0000	154.2886	0.6733	0.0046
<i>Controlled Burning</i>	Biomass burned	kg dm	93,508,266.9246	0.0016	0.0000	0.0000	154.2886	0.6733	0.0046
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	46,223,086.4181	0.0017	0.0000	0.0000	76.2681	0.3328	0.0023
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires: Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires: Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland: Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning: Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning: Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 2003

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-1,180.7986	0.9721	0.0067	0.2415	8.5058
A. Forest Land	-15,645.8081	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-15,645.8081	NE,NO	NE,NO	NO	NO
B. Cropland	15,384.4810	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	576.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,258.3669	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,558.9674	0.6343	0.0044	0.1576	5.5499
1. Grassland remaining Grassland	503.4788	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,430.9600	0.6343	0.0044	0.1576	5.5499
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,302.2194	0.3378	0.0023	0.0839	2.9558
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,224.8044	IE	IE	0.0839	2.9558
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	337.2765	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	337.2765	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	475.4468	0.9721	0.0067	0.2415	8.5058
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 2003
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
A. Total Forest Land		2,450,1086	1,3688	IE,NO	1,3688	0,0925	0,2803	3,353,7768	IE,NO	3,353,7768	226,5781	686,6836		
1. Forest Land remaining Forest Land		822,0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England pre-1920	512,0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Scotland pre-1920	196,0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Wales pre-1920	112,0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	Northern Ireland pre-	2,0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Forest Land ⁽⁴⁾		1,628,1086	2,0599	IE,NO	2,0599	0,1392	0,4218	3,353,7768	IE,NO	3,353,7768	226,5781	686,6836		
2.1 Cropland converted to Forest Land		104,2422	1,9452	IE	1,9452	0,1185	0,3755	202,7760	IE	202,7760	12,3533	39,1433		
	England pre-1990	53,4582	1,5598	IE	1,5598	0,0917	0,6061	83,3823	IE	83,3823	4,9042	32,4011		
	Scotland pre-1990	23,2287	2,1595	IE	2,1595	0,1709	0,6336	50,1634	IE	50,1634	3,9691	14,7184		
	Wales pre-1990	3,0016	2,0647	IE	2,0647	-0,0178	0,6214	6,1974	IE	6,1974	-0,0535	1,8653		
	Northern Ireland pre-	0,2230	1,4619	IE	1,4619	0,3591	0,6360	0,3260	IE	0,3260	0,0801	0,1418		
	England post-1990	15,0643	2,6544	IE	2,6544	0,1486	-0,1897	39,9867	IE	39,9867	2,2383	-2,8576		
	Scotland post-1990	8,7083	2,4517	IE	2,4517	0,1313	-0,8132	21,3500	IE	21,3500	1,1431	-7,0817		
	Wales post-1990	0,5300	2,4358	IE	2,4358	0,1281	-0,0455	1,2909	IE	1,2909	0,0679	-0,0241		
	Northern Ireland post	0,0281	2,8225	IE	2,8225	0,1440	-0,7036	0,0794	IE	0,0794	0,0041	-0,0198		
2.2 Grassland converted to Forest Land		1,482,2936	2,0641	IE	2,0641	0,1404	0,4269	3,059,5558	IE	3,059,5558	208,1525	632,7212		
	England pre-1990	269,1861	1,5598	IE	1,5598	0,0917	0,6061	419,8671	IE	419,8671	24,6950	163,1540		
	Scotland pre-1990	773,0587	2,1595	IE	2,1595	0,1709	0,6336	1,669,4503	IE	1,669,4503	132,0927	489,8320		
	Wales pre-1990	147,8824	2,0647	IE	2,0647	-0,0178	0,6214	305,3357	IE	305,3357	-2,6367	91,8979		
	Northern Ireland pre-	65,0070	1,4619	IE	1,4619	0,3591	0,6360	95,0331	IE	95,0331	23,3452	41,3423		
	England post-1990	39,5888	2,6544	IE	2,6544	0,1486	-0,1897	105,0848	IE	105,0848	5,8823	-7,5097		
	Scotland post-1990	167,4338	2,4517	IE	2,4517	0,1313	-0,8132	410,4946	IE	410,4946	21,9790	-136,1594		
	Wales post-1990	6,5833	2,4358	IE	2,4358	0,1281	-0,0455	16,0354	IE	16,0354	0,8430	-0,2992		
	Northern Ireland post	13,5535	2,8225	IE	2,8225	0,1440	-0,7036	38,2546	IE	38,2546	1,9520	-9,5366		
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Forest Land		41,5729	2,1996	IE,NO	2,1996	0,1461	0,3565	91,4450	IE,NO	91,4450	6,0724	14,8191		
	England pre-1990	6,0357	1,5598	IE	1,5598	0,0917	0,6061	9,4143	IE	9,4143	0,5537	3,6583		
	Scotland pre-1990	22,1996	2,1595	IE	2,1595	0,1709	0,6336	47,9408	IE	47,9408	3,7932	14,0663		
	Wales pre-1990	1,2340	2,0647	IE	2,0647	-0,0178	0,6214	2,5479	IE	2,5479	-0,0220	0,7669		
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
	England post-1990	9,2550	2,6544	IE	2,6544	0,1486	-0,1897	24,5664	IE	24,5664	1,3751	-1,7556		
	Scotland post-1990	2,3279	2,4517	IE	2,4517	0,1313	-0,8132	5,7072	IE	5,7072	0,3056	-1,8931		
	Wales post-1990	0,5207	2,4358	IE	2,4358	0,1281	-0,0455	1,2683	IE	1,2683	0,0667	-0,0237		
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2003

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
						(Mg C/ha)			(Gg C)			
B. Total Cropland		11,130.7927	0.0157	-0.0060	0.0097	IE,NO	-0.3732	174.6522	-66.4268	108.2254	IE,NO	-4,154.2187
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0556	174.6522	NA,NO	174.6522	IE,NO	-332.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.2133	NA	NA	NA	IE	-332.0000
2. Land converted to Cropland ⁽⁶⁾		5,159.0524	IE,NO	-0.0129	-0.0129	IE,NO	-0.7409	IE,NO	-66.4268	-66.4268	IE,NO	-3,822.2187
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0227	IE,NO	IE,NO	IE,NO	IE	-1.6296
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0227	NO	NO	NO	IE	-1.6296
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		5,002.6947	IE,NO	-0.0130	-0.0130	IE	-0.7750	IE,NO	-65.1911	-65.1911	IE	-3,877.0959
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.2779	NO	NO	NO	IE	-719.9851
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.2129	NO	NO	NO	IE	-755.6481
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.4982	NO	NO	NO	IE	-118.0278
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-0.7778	NO	NO	NO	IE	-162.1096
	England post-1990	880.3025	IE	-0.0588	-0.0588	IE	-0.8848	IE	-51.7356	-51.7356	IE	-778.8873
	Scotland post-1990	299.6525	IE	-0.0176	-0.0176	IE	-3.4491	IE	-5.2711	-5.2711	IE	-1,033.5250
	Wales post-1990	111.3158	IE	-0.0479	-0.0479	IE	-1.4436	IE	-5.3305	-5.3305	IE	-160.6980
	Northern Ireland post-1990	52.0038	IE	-0.0549	-0.0549	IE	-2.8501	IE	-2.8539	-2.8539	IE	-148.2148
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		84.6495	IE,NO	-0.0146	-0.0146	IE,NO	0.6675	IE,NO	-1.2357	-1.2357	IE,NO	56.5068
	England pre-1990	46.8545	NO	NO	NO	IE	0.5386	NO	NO	NO	IE	25.2370
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.6796	NO	NO	NO	IE	16.2868
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.5763	NO	NO	NO	IE	0.3657
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	8.7623	IE	-0.0905	-0.0905	IE	1.1935	IE	-0.7932	-0.7932	IE	10.4575
	Scotland post-1990	3.7888	IE	-0.1009	-0.1009	IE	0.9133	IE	-0.3823	-0.3823	IE	3.4601
	Wales post-1990	0.6431	IE	-0.0937	-0.0937	IE	1.0879	IE	-0.0602	-0.0602	IE	0.6997
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Grassland

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		4,390.1332	0.0132	-0.0008	0.0123	IE,NO	0.4892	57.8156	-3.7034	54.1123	IE,NO	2,147.5704
1. Grassland remaining Grassland		10.8312	NE	NE	NE	IE,NO	-12.6775	NE	NE	NE	IE,NO	-137.3124
	England peat extraction	5.9761	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-68.3439
	Scotland peat extraction	3.6091	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-41.2737
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		4,379.3021	0.0132	-0.0008	0.0124	IE,NO	0.5217	57.8156	-3.7034	54.1123	IE,NO	2,284.8828
2.1 Forest Land converted to Grassland		342.2219	IE,NO	IE,NO	IE,NO	IE	-0.1253	IE,NO	IE,NO	IE,NO	IE	-42.8837
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0364	NO	NO	NO	IE	-12.4075
	UK post-1990	0.9176	IE	IE	IE	IE	-33.2113	IE	IE	IE	IE	-30.4762
2.2 Cropland converted to Grassland		3,841.0716	0.0151	IE,NO	0.0151	IE	0.5328	57.8156	IE,NO	57.8156	IE	2,046.5336
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.3071	NO	NO	NO	IE	476.2625
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.6756	NO	NO	NO	IE	458.9521
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.5270	NO	NO	NO	IE	76.1107
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.7788	NO	NO	NO	IE	232.1823
	England post-1990	773.5175	0.0588	IE	0.0588	IE	0.5207	45.4777	IE	45.4777	IE	402.7389
	Scotland post-1990	235.7425	0.0176	IE	0.0176	IE	0.8408	4.1490	IE	4.1490	IE	198.2200
	Wales post-1990	76.8005	0.0479	IE	0.0479	IE	0.8273	3.6791	IE	3.6791	IE	63.5372
	Northern Ireland post-1990	82.2018	0.0549	IE	0.0549	IE	1.6852	4.5098	IE	4.5098	IE	138.5299
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		196.0086	IE,NO	-0.0189	-0.0189	IE,NO	1.4348	IE,NO	-3.7034	-3.7034	IE,NO	281.2328
	England pre-1990	63.0327	NO	NO	NO	IE	1.0697	NO	NO	NO	IE	67.4238
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.3800	NO	NO	NO	IE	83.0311
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.2896	NO	NO	NO	IE	9.7159
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	47.5650	IE	-0.0548	-0.0548	IE	1.7902	IE	-2.6081	-2.6081	IE	85.1507
	Scotland post-1990	9.4623	IE	-0.0652	-0.0652	IE	1.8012	IE	-0.6171	-0.6171	IE	17.0430
	Wales post-1990	8.2478	IE	-0.0580	-0.0580	IE	2.2877	IE	-0.4782	-0.4782	IE	18.8683
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.2 Cropland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.3 Grassland converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.4 Settlements converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Wetlands														
	England		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Scotland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Wales		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
	Northern Ireland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
E. Total Settlements		1,199.6230	0.0115	IE,NO	0.0115	IE,NO	-1.4267	13.7870	IE,NO	13.7870	IE,NO	-1,711.4609
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,199.6230	0.0115	IE,NO	0.0115	IE,NO	-1.4267	13.7870	IE,NO	13.7870	IE,NO	-1,711.4609
2.1 Forest Land converted to Settlements		51.7183	IE,NO	IE,NO	IE,NO	IE	-0.4718	IE,NO	IE,NO	IE,NO	IE	-24.3985
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.1594	NO	NO	NO	IE	-8.1671
	UK post-1990	0.4887	IE	IE	IE	IE	-33.2113	IE	IE	IE	IE	-16.2314
2.2 Cropland converted to Settlements		297.8180	0.0106	IE,NO	0.0106	IE	-0.7474	3.1691	IE,NO	3.1691	IE	-222.6027
	England pre-1990	225.3365	NO	NO	NO	IE	-0.5279	NO	NO	NO	IE	-118.9443
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.7474	NO	NO	NO	IE	-21.7046
	Wales pre-1990	6.7379	NO	NO	NO	IE	-0.8492	NO	NO	NO	IE	-5.7217
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.7263	NO	NO	NO	IE	-1.4956
	England post-1990	29.8025	0.0909	IE	0.0909	IE	-2.0625	2.7091	IE	2.7091	IE	-61.4684
	Scotland post-1990	1.7185	0.1013	IE	0.1013	IE	-2.5655	0.1741	IE	0.1741	IE	-4.4087
	Wales post-1990	2.5568	0.0937	IE	0.0937	IE	-2.8124	0.2396	IE	0.2396	IE	-7.1907
	Northern Ireland post-1990	0.5678	0.0815	IE	0.0815	IE	-2.9388	0.0463	IE	0.0463	IE	-1.6686
2.3 Grassland converted to Settlements		850.0867	0.0125	IE,NO	0.0125	IE	-1.7227	10.6179	IE,NO	10.6179	IE	-1,464.4598
	England pre-1990	445.9785	NO	NO	NO	IE	-0.8414	NO	NO	NO	IE	-375.2341
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-1.9421	NO	NO	NO	IE	-195.9791
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.1561	NO	NO	NO	IE	-82.6501
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-1.5708	NO	NO	NO	IE	-67.9100
	England post-1990	118.4575	0.0549	IE	0.0549	IE	-2.9270	6.5058	IE	6.5058	IE	-346.7275
	Scotland post-1990	31.0940	0.0651	IE	0.0651	IE	-7.2004	2.0253	IE	2.0253	IE	-223.8888
	Wales post-1990	24.8675	0.0580	IE	0.0580	IE	-3.6499	1.4427	IE	1.4427	IE	-90.7640
	Northern Ireland post-1990	14.0529	0.0458	IE	0.0458	IE	-5.7857	0.6441	IE	0.6441	IE	-81.3061
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.
5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.
5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

(1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.F.2.1 Forest Land converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.2 Cropland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.3 Grassland converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.4 Wetlands converted to Other Land: Conversion of land to the Other Land category is negligible.

5.F.2.5 Settlements converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2003

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization: Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2003

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box: Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A Organic Soils:Methodology being developed but emissions small.
5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2003

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2003

Carbon emissions from agricultural lime application ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	2,027,000.0000	0.1235	250.2780
B. Cropland ⁽⁴⁾	1,213,020.5896	0.1235	149.7742
Limestone CaCO ₃	800,102.8753	0.1200	96.0123
Dolomite CaMg(CO ₃) ₂	412,917.7143	0.1302	53.7619
C. Grassland ⁽⁴⁾	813,979.4104	0.1235	100.5038
Limestone CaCO ₃	536,897.1247	0.1200	64.4277
Dolomite CaMg(CO ₃) ₂	277,082.2857	0.1302	36.0761
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Biomass Burning ⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	135,012,228,7676	0.0016	0.0000	0.0000	222,7702	0.9721	0.0067
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	88,094,058,3432	0.0016	0.0000	0.0000	145,3552	0.6343	0.0044
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	88,094,058,3432	0.0016	0.0000	0.0000	145,3552	0.6343	0.0044
<i>Controlled Burning</i>	Biomass burned	kg dm	88,094,058,3432	0.0016	0.0000	0.0000	145,3552	0.6343	0.0044
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	46,918,170,4243	0.0016	0.0000	0.0000	77,4150	0.3378	0.0023
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 2004

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1),(2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-1,934.5225	0.9326	0.0064	0.2317	8.1604
A. Forest Land	-16,302.0335	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-16,302.0335	NE,NO	NE,NO	NO	NO
B. Cropland	15,315.7435	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	554.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,276.3979	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,857.6200	0.5657	0.0039	0.1406	4.9499
1. Grassland remaining Grassland	354.7969	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,542.8932	0.5657	0.0039	0.1406	4.9499
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,290.5651	0.3669	0.0025	0.0912	3.2105
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,206.4807	IE	IE	0.0912	3.2105
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	618.8224	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	618.8224	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	469.9644	0.9326	0.0064	0.2317	8.1604
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 2004
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,463.0716	1.4475	IE,NO	1.4475	0.0723	0.2852	3,565.3649	IE,NO	3,565.3649	178.1085	702.5357
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,641.0716	2.1726	IE,NO	2.1726	0.1085	0.4281	3,565.3649	IE,NO	3,565.3649	178.1085	702.5357
2.1 Cropland converted to Forest Land		105.8469	2.0732	IE	2.0732	0.0820	0.3831	219.4368	IE	219.4368	8.6829	40.5515
	England pre-1990	53.4582	1.7615	IE	1.7615	0.0376	0.5875	94.1666	IE	94.1666	2.0088	31.4047
	Scotland pre-1990	23.2287	2.2992	IE	2.2992	0.1385	0.6232	53.4082	IE	53.4082	3.2176	14.4753
	Wales pre-1990	3.0016	2.1191	IE	2.1191	-0.0262	0.6101	6.3606	IE	6.3606	-0.0787	1.8314
	Northern Ireland pre-	0.2230	1.4958	IE	1.4958	0.3235	0.6213	0.3335	IE	0.3335	0.0721	0.1385
	England post-1990	16.3166	2.5646	IE	2.5646	0.1399	-0.0874	41.8459	IE	41.8459	2.2820	-1.4262
	Scotland post-1990	9.0366	2.4221	IE	2.4221	0.1228	-0.6506	21.8880	IE	21.8880	1.1093	-5.8791
	Wales post-1990	0.5528	2.4477	IE	2.4477	0.1228	0.0417	1.3532	IE	1.3532	0.0679	0.0231
	Northern Ireland post	0.0294	2.7507	IE	2.7507	0.1322	-0.5455	0.0808	IE	0.0808	0.0039	-0.0160
2.2 Grassland converted to Forest Land		1,492.7722	2.1763	IE	2.1763	0.1101	0.4329	3,248.7500	IE	3,248.7500	164.3909	646.2767
	England pre-1990	269.1861	1.7615	IE	1.7615	0.0376	0.5875	474.1713	IE	474.1713	10.1153	158.1368
	Scotland pre-1990	773.0587	2.2992	IE	2.2992	0.1385	0.6232	1,777.4398	IE	1,777.4398	107.0831	481.7410
	Wales pre-1990	147.8824	2.1191	IE	2.1191	-0.0262	0.6101	313.3743	IE	313.3743	-3.8786	90.2277
	Northern Ireland pre-	65.0070	1.4958	IE	1.4958	0.3235	0.6213	97.2385	IE	97.2385	21.0326	40.3858
	England post-1990	42.8800	2.5646	IE	2.5646	0.1399	-0.0874	109.9708	IE	109.9708	5.9971	-3.7482
	Scotland post-1990	173.7467	2.4221	IE	2.4221	0.1228	-0.6506	420.8398	IE	420.8398	21.3282	-113.0373
	Wales post-1990	6.8670	2.4477	IE	2.4477	0.1228	0.0417	16.8088	IE	16.8088	0.8432	0.2865
	Northern Ireland post	14.1442	2.7507	IE	2.7507	0.1322	-0.5455	38.9067	IE	38.9067	1.8700	-7.7156
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		42.4525	2.2891	IE,NO	2.2891	0.1186	0.3700	97.1780	IE,NO	97.1780	5.0347	15.7075
	England pre-1990	6.0357	1.7615	IE	1.7615	0.0376	0.5875	10.6319	IE	10.6319	0.2268	3.5458
	Scotland pre-1990	22.1996	2.2992	IE	2.2992	0.1385	0.6232	51.0419	IE	51.0419	3.0751	13.8339
	Wales pre-1990	1.2340	2.1191	IE	2.1191	-0.0262	0.6101	2.6150	IE	2.6150	-0.0324	0.7529
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	10.0244	2.5646	IE	2.5646	0.1399	-0.0874	25.7087	IE	25.7087	1.4020	-0.8762
	Scotland post-1990	2.4157	2.4221	IE	2.4221	0.1228	-0.6506	5.8511	IE	5.8511	0.2965	-1.5716
	Wales post-1990	0.5431	2.4477	IE	2.4477	0.1228	0.0417	1.3294	IE	1.3294	0.0667	0.0227
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2004

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
						(Mg C/ha)			(Gg C)			
B. Total Cropland		11,227.6834	0.0156	-0.0059	0.0096	IE,NO	-0.3699	174.6522	-66.4268	108.2254	IE,NO	-4,153.1362
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0546	174.6522	NA,NO	174.6522	IE,NO	-326.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.1733	NA	NA	NA	IE	-326.0000
2. Land converted to Cropland ⁽⁶⁾		5,255.9430	IE,NO	-0.0126	-0.0126	IE,NO	-0.7282	IE,NO	-66.4268	-66.4268	IE,NO	-3,827.1362
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0216	IE,NO	IE,NO	IE,NO	IE	-1,5480
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0216	NO	NO	NO	IE	-1,5480
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		5,098.6428	IE,NO	-0.0128	-0.0128	IE	-0.7614	IE,NO	-65.1911	-65.1911	IE	-3,882.0837
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.2636	NO	NO	NO	IE	-682.9215
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.1498	NO	NO	NO	IE	-716.2899
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.4723	NO	NO	NO	IE	-111.8909
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-0.7382	NO	NO	NO	IE	-153.8618
	England post-1990	943.1813	IE	-0.0549	-0.0549	IE	-0.8631	IE	-51.7356	-51.7356	IE	-814.0959
	Scotland post-1990	321.0563	IE	-0.0164	-0.0164	IE	-3.3644	IE	-5.2711	-5.2711	IE	-1,080.1538
	Wales post-1990	119.2669	IE	-0.0447	-0.0447	IE	-1.4083	IE	-5.3305	-5.3305	IE	-167.9643
	Northern Ireland post-1990	55.7183	IE	-0.0512	-0.0512	IE	-2.7802	IE	-2.8539	-2.8539	IE	-154.9057
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		85.5919	IE,NO	-0.0144	-0.0144	IE,NO	0.6601	IE,NO	-1.2357	-1.2357	IE,NO	56.4955
	England pre-1990	46.8545	NO	NO	NO	IE	0.5240	NO	NO	NO	IE	24.5505
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.6724	NO	NO	NO	IE	16.1144
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.5604	NO	NO	NO	IE	0.3556
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	9.3881	IE	-0.0845	-0.0845	IE	1.1769	IE	-0.7932	-0.7932	IE	11.0490
	Scotland post-1990	4.0594	IE	-0.0942	-0.0942	IE	0.9082	IE	-0.3823	-0.3823	IE	3.6866
	Wales post-1990	0.6891	IE	-0.0874	-0.0874	IE	1.0732	IE	-0.0602	-0.0602	IE	0.7395
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further detail are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Grassland

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		4,474.5981	0.0129	-0.0008	0.0121	IE,NO	0.4949	57.8156	-3.7034	54.1123	IE,NO	2,214.3613
1. Grassland remaining Grassland		7.2854	NE	NE	NE	IE,NO	-13.2817	NE	NE	NE	IE,NO	-96.7628
	England peat extraction	4.3932	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-50.2414
	Scotland peat extraction	1.6462	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-18.8266
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1.2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		4,467.3127	0.0129	-0.0008	0.0121	IE,NO	0.5173	57.8156	-3.7034	54.1123	IE,NO	2,311.1241
2.1 Forest Land converted to Grassland		342.1227	IE,NO	IE,NO	IE,NO	IE	-0.1210	IE,NO	IE,NO	IE,NO	IE	-41.3819
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0345	NO	NO	NO	IE	-11.7705
	UK post-1990	0.8184	IE	IE	IE	IE	-36.1805	IE	IE	IE	IE	-29.6114
2.2 Cropland converted to Grassland		3,924.5189	0.0147	IE,NO	0.0147	IE	0.5268	57.8156	IE,NO	57.8156	IE	2,067.2761
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.2985	NO	NO	NO	IE	462.9661
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.6684	NO	NO	NO	IE	454.0751
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.5121	NO	NO	NO	IE	73.9675
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.7576	NO	NO	NO	IE	225.8480
	England post-1990	828.7688	0.0549	IE	0.0549	IE	0.5135	45.4777	IE	45.4777	IE	425.5906
	Scotland post-1990	252.5813	0.0164	IE	0.0164	IE	0.8364	4.1490	IE	4.1490	IE	211.2657
	Wales post-1990	82.2863	0.0447	IE	0.0447	IE	0.8161	3.6791	IE	3.6791	IE	67.1515
	Northern Ireland post-1990	88.0733	0.0512	IE	0.0512	IE	1.6624	4.5098	IE	4.5098	IE	146.4115
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		200.6711	IE,NO	-0.0185	-0.0185	IE,NO	1.4214	IE,NO	-3.7034	-3.7034	IE,NO	285.2299
	England pre-1990	63.0327	NO	NO	NO	IE	1.0398	NO	NO	NO	IE	65.5421
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.3654	NO	NO	NO	IE	82.1504
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.2538	NO	NO	NO	IE	9.4458
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	50.9625	IE	-0.0512	-0.0512	IE	1.7658	IE	-2.6081	-2.6081	IE	89.9873
	Scotland post-1990	10.1381	IE	-0.0609	-0.0609	IE	1.7916	IE	-0.6171	-0.6171	IE	18.1636
	Wales post-1990	8.8369	IE	-0.0541	-0.0541	IE	2.2565	IE	-0.4782	-0.4782	IE	19.9407
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽²⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾	
			Increase	Decrease	Net change			Increase	Decrease	Net change			
			(Mg C/ha)					(Gg C)					
D. Total Wetlands													
1. Wetlands remaining Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2. Land converted to Wetlands ⁽⁵⁾													
2.1 Forest Land converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.2 Cropland converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.3 Grassland converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.4 Settlements converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												
2.5 Other Land converted to Wetlands													
	England												
	Scotland												
	Wales												
	Northern Ireland												

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2004

Settlements⁽¹⁾

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(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4),(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
E. Total Settlements		1,215.6021	0.0113	IE,NO	0.0113	IE,NO	-1.4038	13.7870	IE,NO	13.7870	IE,NO	-1,706.4636		
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
2. Land converted to Settlements ⁽⁶⁾		1,215.6021	0.0113	IE,NO	0.0113	IE,NO	-1.4038	13.7870	IE,NO	13.7870	IE,NO	-1,706.4636		
2.1 Forest Land converted to Settlements		51.7604	IE,NO	IE,NO	IE,NO	IE	-0.5207	IE,NO	IE,NO	IE,NO	IE	-26.9537		
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.1512	NO	NO	NO	IE	-7.7478		
	UK post-1990	0.5308	IE	IE	IE	IE	-36.1805	IE	IE	IE	IE	-19.2059		
2.2 Cropland converted to Settlements		300.2927	0.0106	IE,NO	0.0106	IE	-0.7275	3.1691	IE,NO	3.1691	IE	-218.4507		
	England pre-1990	225.3365	NO	NO	NO	IE	-0.5011	NO	NO	NO	IE	-112.9109		
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.7092	NO	NO	NO	IE	-20.5941		
	Wales pre-1990	6.7379	NO	NO	NO	IE	-0.8055	NO	NO	NO	IE	-5.4274		
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.6896	NO	NO	NO	IE	-1.4200		
	England post-1990	31.9313	0.0848	IE	0.0848	IE	-2.0116	2.7091	IE	2.7091	IE	-64.2315		
	Scotland post-1990	1.8413	0.0945	IE	0.0945	IE	-2.5022	0.1741	IE	0.1741	IE	-4.6072		
	Wales post-1990	2.7394	0.0875	IE	0.0875	IE	-2.7438	0.2396	IE	0.2396	IE	-7.5162		
	Northern Ireland post-1990	0.6083	0.0761	IE	0.0761	IE	-2.8661	0.0463	IE	0.0463	IE	-1.7436		
2.3 Grassland converted to Settlements		863.5490	0.0123	IE,NO	0.0123	IE	-1.6919	10.6179	IE,NO	10.6179	IE	-1,461.0591		
	England pre-1990	445.9785	NO	NO	NO	IE	-0.7983	NO	NO	NO	IE	-356.0294		
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-1.8431	NO	NO	NO	IE	-185.9950		
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.0964	NO	NO	NO	IE	-78.3862		
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-1.4908	NO	NO	NO	IE	-64.4511		
	England post-1990	126.9188	0.0513	IE	0.0513	IE	-2.8551	6.5058	IE	6.5058	IE	-362.3683		
	Scotland post-1990	33.3150	0.0608	IE	0.0608	IE	-7.0236	2.0253	IE	2.0253	IE	-233.9924		
	Wales post-1990	26.6438	0.0541	IE	0.0541	IE	-3.5603	1.4427	IE	1.4427	IE	-94.8609		
	Northern Ireland post-1990	15.0567	0.0428	IE	0.0428	IE	-5.6437	0.6441	IE	0.6441	IE	-84.9759		
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE		
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

(1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

(2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.

(6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2004

Direct N₂O emissions from N fertilization ⁽¹⁾

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2004

N₂O emissions from drainage of soils ⁽¹⁾

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A Organic Soils:Methodology being developed but emissions small.

5.A Mineral Soils:Methodology being developed but emissions small.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2004

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 N₂O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2004

Carbon emissions from agricultural lime application ⁽¹⁾

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	1,801,000.0000	0.1234	222.2400
B. Cropland ⁽⁴⁾	1,070,600.8175	0.1234	132.1101
Limestone CaCO ₃	713,932.0276	0.1200	85.6718
Dolomite CaMg(CO ₃) ₂	356,668.7898	0.1302	46.4383
C. Grassland ⁽⁴⁾	730,399.1825	0.1234	90.1299
Limestone CaCO ₃	487,067.9724	0.1200	58.4482
Dolomite CaMg(CO ₃) ₂	243,331.2102	0.1302	31.6817
G. Other (please specify) ^{(4), (5)}			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2004

Biomass Burning ⁽¹⁾

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UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	129,529,981.9553	0.0016	0.0000	0.0000	213.7245	0.9326	0.0064
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Controlled Burning</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
<i>Wildfires</i>	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	78,569,715.3285	0.0016	0.0000	0.0000	129.6400	0.5657	0.0039
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	78,569,715.3285	0.0016	0.0000	0.0000	129.6400	0.5657	0.0039
<i>Controlled Burning</i>	Biomass burned	kg dm	78,569,715.3285	0.0016	0.0000	0.0000	129.6400	0.5657	0.0039
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
<i>Controlled Burning</i>	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
<i>Controlled Burning</i>	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
<i>Wildfires</i>	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	50,960,266.6268	0.0017	0.0000	0.0000	84.0844	0.3669	0.0025
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

(Sheet 1 of 1)

Inventory 2005

Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^{(1), (2)}	CH ₄	N ₂ O	NO _x	CO
	(Gg)				
Total Land-Use Categories	-2,056.1185	0.9250	0.0064	0.2298	8.0934
A. Forest Land	-15,737.9972	NE,NO	NE,NO	NO	NO
1. Forest Land remaining Forest Land	NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Forest Land	-15,737.9972	NE,NO	NE,NO	NO	NO
B. Cropland	15,258.3278	NA,NE,NO	NA,NE,NO	NO	NO
1. Cropland remaining Cropland	532.9419	NA	NA	NO	NO
2. Land converted to Cropland	14,294.1958	NE,NO	NA,NE,NO	NO	NO
C. Grassland	-7,934.2927	0.5699	0.0039	0.1416	4.9867
1. Grassland remaining Grassland	404.4256	NE,NO	NE,NO	NO	NO
2. Land converted to Grassland	-8,626.7522	0.5699	0.0039	0.1416	4.9867
D. Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
1. Wetlands remaining Wetlands ⁽³⁾	IE,NE,NO	NE,NO	NE,NO	NO	NO
2. Land converted to Wetlands	IE,NE,NO	NE,NO	NE,NO	NO	NO
E. Settlements	6,261.5633	0.3551	0.0024	0.0882	3.1067
1. Settlements remaining Settlements ⁽³⁾	NO	NO	NO	NO	NO
2. Land converted to Settlements	6,180.1977	IE	IE	0.0882	3.1067
F. Other Land	NA,NE,NO	NE,NO	NE,NO	NO	NO
1. Other Land remaining Other Land ⁽⁴⁾		NO	NO	NO	NO
2. Land converted to Other Land	NO	NO	NO	NO	NO
G. Other (please specify)⁽⁵⁾	96.2803	NE	NE	NE	NE
Harvested Wood Products ⁽⁶⁾	96.2803	NE	NE	NE	NE
Information items⁽⁷⁾					
Forest Land converted to other Land-Use Categories	471.5872	0.9250	0.0064	0.2298	8.0934
Grassland converted to other Land-Use Categories	NO	NO	NO	NO	NO

⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂

⁽²⁾ CO₂ emissions from liming and biomass burning are included in this column.

⁽³⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁴⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row. This land-use category is to allow the total of identified land area to match the national area.

⁽⁵⁾ May include other non-specified sources and sinks.

⁽⁶⁾ Parties do not have to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.

⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Note: The totals for some land-use categories for N₂O (5.A and 5.D), CO₂ (5.B and 5.C) and CO₂, CH₄, N₂O (5.E and 5.F) may not equal the summation of the subcategories included in this table, because these totals include data from tables 5(II), 5(IV) and 5(V), where the subcategories are not available. Emissions of CO₂, CH₄, N₂O from 5.G Other are estimated based on the information provided in the background data tables.

Documentation box:
<ul style="list-style-type: none"> Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table. If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.
5.A.1 Forest Land remaining Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.A.2 Land converted to Forest Land: Any land converted to forest since 1920 is reported under a "converted to ..." sub-category because changes in carbon stock will still be occurring in these areas. Forests in existence since before 1920 are reported as "remaining forest" and as they are usually unmanaged are reported to have zero net change in carbon stock.
5.D Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.1 Wetlands remaining Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.D.2 Land converted to Wetlands: Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.
5.F.2 Land converted to Other Land: Conversion of land to the Other Land category is negligible.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land
(Sheet 1 of 1)

Inventory 2005
Submission 2006 v1.1

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^(2,3)			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^(2,3)			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
A. Total Forest Land		2,474.9016	1.3369	IE,NO	1.3369	0.1052	0.2921	3,308.6615	IE,NO	3,308.6615	260.4834	723.0362
1. Forest Land remaining Forest Land		822.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England pre-1920	512.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Scotland pre-1920	196.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Wales pre-1920	112.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Northern Ireland pre-	2.0000	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Forest Land ⁽⁴⁾		1,652.9016	2.0017	IE,NO	2.0017	0.1576	0.4374	3,308.6615	IE,NO	3,308.6615	260.4834	723.0362
2.1 Cropland converted to Forest Land		107.1702	1.9385	IE	1.9385	0.1223	0.3960	207.7483	IE	207.7483	13.1092	42.4371
	England pre-1990	53.4582	1.5979	IE	1.5979	0.0893	0.5748	85.4225	IE	85.4225	4.7719	30.7273
	Scotland pre-1990	23.2287	2.0930	IE	2.0930	0.2020	0.6151	48.6166	IE	48.6166	4.6914	14.2883
	Wales pre-1990	3.0016	1.9303	IE	1.9303	0.0323	0.5995	5.7941	IE	5.7941	0.0969	1.7996
	Northern Ireland pre-	0.2230	1.1421	IE	1.1421	0.4053	0.6153	0.2546	IE	0.2546	0.0904	0.1372
	England post-1990	17.2748	2.5421	IE	2.5421	0.1341	0.0089	43.9149	IE	43.9149	2.3173	0.1538
	Scotland post-1990	9.3681	2.3764	IE	2.3764	0.1140	-0.5026	22.2621	IE	22.2621	1.0683	-4.7085
	Wales post-1990	0.5854	2.3943	IE	2.3943	0.1183	0.0873	1.4016	IE	1.4016	0.0693	0.0511
	Northern Ireland post	0.0304	2.6930	IE	2.6930	0.1204	-0.3798	0.0819	IE	0.0819	0.0037	-0.0115
2.2 Grassland converted to Forest Land		1,502.5697	2.0020	IE	2.0020	0.1601	0.4418	3,008.1160	IE	3,008.1160	240.5347	663.8487
	England pre-1990	269.1861	1.5979	IE	1.5979	0.0893	0.5748	430.1408	IE	430.1408	24.0288	154.7258
	Scotland pre-1990	773.0587	2.0930	IE	2.0930	0.2020	0.6151	1,617.9743	IE	1,617.9743	156.1327	475.5186
	Wales pre-1990	147.8824	1.9303	IE	1.9303	0.0323	0.5995	285.4637	IE	285.4637	4.7750	88.6615
	Northern Ireland pre-	65.0070	1.1421	IE	1.1421	0.4053	0.6153	74.2437	IE	74.2437	26.3449	39.9975
	England post-1990	45.3981	2.5421	IE	2.5421	0.1341	0.0089	115.4080	IE	115.4080	6.0900	0.4041
	Scotland post-1990	180.1196	2.3764	IE	2.3764	0.1140	-0.5026	428.0317	IE	428.0317	20.5395	-90.5308
	Wales post-1990	7.2715	2.3943	IE	2.3943	0.1183	0.0873	17.4102	IE	17.4102	0.8602	0.6346
	Northern Ireland post	14.6462	2.6931	IE	2.6931	0.1204	-0.3798	39.4436	IE	39.4436	1.7636	-5.5627
2.3 Wetlands converted to Forest Land		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Forest Land		43.1617	2.1500	IE,NO	2.1500	0.1585	0.3881	92.7972	IE,NO	92.7972	6.8395	16.7504
	England pre-1990	6.0357	1.5979	IE	1.5979	0.0893	0.5748	9.6447	IE	9.6447	0.5388	3.4693
	Scotland pre-1990	22.1996	2.0930	IE	2.0930	0.2020	0.6151	46.4626	IE	46.4626	4.4836	13.6552
	Wales pre-1990	1.2340	1.9303	IE	1.9303	0.0323	0.5995	2.3821	IE	2.3821	0.0398	0.7399
	Northern Ireland pre-	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	10.6130	2.5421	IE	2.5421	0.1341	0.0089	26.9797	IE	26.9797	1.4237	0.0945
	Scotland post-1990	2.5043	2.3764	IE	2.3764	0.1140	-0.5026	5.9511	IE	5.9511	0.2856	-1.2587
	Wales post-1990	0.5751	2.3943	IE	2.3943	0.1183	0.0873	1.3770	IE	1.3770	0.0680	0.0502
	Northern Ireland post	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Forest Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(3) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(4) A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.2.1 Cropland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Cropland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.2 Grassland converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Grassland to Forestland is assumed to always result in a positive carbon stock change in living biomass.

5.A.2.3 Wetlands converted to Forest Land: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.A.2.4 Settlements converted to Forest Land: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements. Conversion from Settlements to Forestland is assumed to always result in a positive carbon stock change in living biomass.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2005

Cropland

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3), (5)}	Net carbon stock change in soils ⁽³⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
B. Total Cropland		11,324.5740	0.0154	-0.0059	0.0096	IE,NO	-0.3666	174.6522	-66.4268	108.2254	IE,NO	-4.151.9902
1. Cropland remaining Cropland		5,971.7403	0.0292	NA,NO	0.0292	IE,NO	-0.0536	174.6522	NA,NO	174.6522	IE,NO	-320.0000
	England	4,775.7394	0.0300	NO	0.0300	NO	NO	143.2722	NO	143.2722	NO	NO
	Scotland	717.2929	0.0300	NO	0.0300	NO	NO	21.5188	NO	21.5188	NO	NO
	Wales	100.5350	0.0300	NO	0.0300	NO	NO	3.0161	NO	3.0161	NO	NO
	Northern Ireland	228.1730	0.0300	NO	0.0300	NO	NO	6.8452	NO	6.8452	NO	NO
	Lowland drainage	150.0000	NA	NA	NA	IE	-2.1333	NA	NA	NA	IE	-320.0000
2. Land converted to Cropland ⁽⁶⁾		5,352.8337	IE,NO	-0.0124	-0.0124	IE,NO	-0.7159	IE,NO	-66.4268	-66.4268	IE,NO	-3,831.9902
2.1 Forest Land converted to Cropland		71.7083	IE,NO	IE,NO	IE,NO	IE	-0.0205	IE,NO	IE,NO	IE,NO	IE	-1.4709
	UK pre-1990	71.7083	NO	NO	NO	IE	-0.0205	NO	NO	NO	IE	-1.4709
	UK post-1990	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.2 Grassland converted to Cropland		5,194.5910	IE,NO	-0.0125	-0.0125	IE	-0.7483	IE,NO	-65.1911	-65.1911	IE	-3,887.0059
	England pre-1990	2,591.0891	NO	NO	NO	IE	-0.2501	NO	NO	NO	IE	-647.9430
	Scotland pre-1990	622.9867	NO	NO	NO	IE	-1.0902	NO	NO	NO	IE	-679.1737
	Wales pre-1990	236.9229	NO	NO	NO	IE	-0.4478	NO	NO	NO	IE	-106.1031
	Northern Ireland pre-1990	208.4215	NO	NO	NO	IE	-0.7008	NO	NO	NO	IE	-146.0721
	England post-1990	1,006.0600	IE	-0.0514	-0.0514	IE	-0.8423	IE	-51.7356	-51.7356	IE	-847.3916
	Scotland post-1990	342.4600	IE	-0.0154	-0.0154	IE	-3.2829	IE	-5.2711	-5.2711	IE	-1,124.2539
	Wales post-1990	127.2180	IE	-0.0419	-0.0419	IE	-1.3743	IE	-5.3305	-5.3305	IE	-174.8350
	Northern Ireland post-1990	59.4329	IE	-0.0480	-0.0480	IE	-2.7129	IE	-2.8539	-2.8539	IE	-161.2335
2.3 Wetlands converted to Cropland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Cropland		86.5343	IE,NO	-0.0143	-0.0143	IE,NO	0.6528	IE,NO	-1.2357	-1.2357	IE,NO	56.4866
	England pre-1990	46.8545	NO	NO	NO	IE	0.5098	NO	NO	NO	IE	23.8845
	Scotland pre-1990	23.9663	NO	NO	NO	IE	0.6653	NO	NO	NO	IE	15.9439
	Wales pre-1990	0.6345	NO	NO	NO	IE	0.5449	NO	NO	NO	IE	0.3458
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	10.0140	IE	-0.0792	-0.0792	IE	1.1607	IE	-0.7932	-0.7932	IE	11.6235
	Scotland post-1990	4.3300	IE	-0.0883	-0.0883	IE	0.9032	IE	-0.3823	-0.3823	IE	3.9107
	Wales post-1990	0.7350	IE	-0.0820	-0.0820	IE	1.0588	IE	-0.0602	-0.0602	IE	0.7782
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Cropland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification

⁽²⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽³⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.B.2 Carbon stock change: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.1 Forest Land converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

5.B.2.2 Grassland converted to Cropland: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.B.2.3 Wetlands converted to Cropland: Conversion from Wetlands is included under Conversion from Grasslands due to existing classifications in land use map data.

5.B.2.4 Settlements converted to Cropland: Categories are split by country and pre- and post-1990 conversion in order to align them with Kyoto Protocol reporting requirements.

5.B.2.4 England pre-1990: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.C. SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Grassland

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽¹⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(2), (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾	Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(2), (5)}	Net carbon stock change in soils ⁽²⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)					(Gg C)				
C. Total Grassland		4,563.8975	0.0127	-0.0008	0.0119	IE,NO	0.4873	57.8156	-3.7034	54.1123	IE,NO	2,223.9599
1. Grassland remaining Grassland		8,4690	NE	NE	NE	IE,NO	-13.0238	NE	NE	NE	IE,NO	-110.2979
	England peat extraction	4,5150	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-51.6339
	Scotland peat extraction	2,7080	NE	NE	NE	IE	-11.4362	NE	NE	NE	IE	-30.9692
	Wales peat extraction	NO	NE	NE	NE	NO	NO	NE	NE	NE	NO	NO
	Northern Ireland peat extract	1,2460	NE	NE	NE	IE	-22.2270	NE	NE	NE	IE	-27.6948
2. Land converted to Grassland ⁽⁶⁾		4,555.4286	0.0127	-0.0008	0.0119	IE,NO	0.5124	57.8156	-3.7034	54.1123	IE,NO	2,334.2578
2.1 Forest Land converted to Grassland		342.1288	IE,NO	IE,NO	IE,NO	IE	-0.1242	IE,NO	IE,NO	IE,NO	IE	-42.4772
	UK pre-1990	341.3042	NO	NO	NO	IE	-0.0327	NO	NO	NO	IE	-11.1693
	UK post-1990	0.8245	IE	IE	IE	IE	-37.9708	IE	IE	IE	IE	-31.3079
2.2 Cropland converted to Grassland		4,007.9662	0.0144	IE,NO	0.0144	IE	0.5209	57.8156	IE,NO	57.8156	IE	2,087.6133
	England pre-1990	1,550.9293	NO	NO	NO	IE	0.2902	NO	NO	NO	IE	450.0775
	Scotland pre-1990	679.3254	NO	NO	NO	IE	0.6613	NO	NO	NO	IE	449.2535
	Wales pre-1990	144.4333	NO	NO	NO	IE	0.4977	NO	NO	NO	IE	71.8905
	Northern Ireland pre-1990	298.1213	NO	NO	NO	IE	0.7370	NO	NO	NO	IE	219.7035
	England post-1990	884.0200	0.0514	IE	0.0514	IE	0.5065	45.4777	IE	45.4777	IE	447.7879
	Scotland post-1990	269.4200	0.0154	IE	0.0154	IE	0.8321	4.1490	IE	4.1490	IE	224.1712
	Wales post-1990	87.7720	0.0419	IE	0.0419	IE	0.8051	3.6791	IE	3.6791	IE	70.6619
	Northern Ireland post-1990	93.9449	0.0480	IE	0.0480	IE	1.6400	4.5098	IE	4.5098	IE	154.0673
2.3 Wetlands converted to Grassland		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.4 Settlements converted to Grassland		205.3336	IE,NO	-0.0180	-0.0180	IE,NO	1.4081	IE,NO	-3.7034	-3.7034	IE,NO	289.1217
	England pre-1990	63.0327	NO	NO	NO	IE	1.0109	NO	NO	NO	IE	63.7180
	Scotland pre-1990	60.1671	NO	NO	NO	IE	1.3509	NO	NO	NO	IE	81.2798
	Wales pre-1990	7.5339	NO	NO	NO	IE	1.2190	NO	NO	NO	IE	9.1839
	Northern Ireland pre-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	England post-1990	54.3600	IE	-0.0480	-0.0480	IE	1.7418	IE	-2.6081	-2.6081	IE	94.6855
	Scotland post-1990	10.8140	IE	-0.0571	-0.0571	IE	1.7821	IE	-0.6171	-0.6171	IE	19.2722
	Wales post-1990	9.4260	IE	-0.0507	-0.0507	IE	2.2260	IE	-0.4782	-0.4782	IE	20.9823
	Northern Ireland post-1990	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.5 Other Land converted to Grassland		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

(1) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

(2) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

(3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

(4) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(5) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(6) A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.C.2.3 Wetlands converted to Grassland:Wetlands are included in either Grasslands or Other Land due to existing classifications in land use map data, therefore Conversion of Wetlands to Grassland cannot be estimated.

5.C.2.4 Settlements converted to Grassland:Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Wetlands⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)					(Gg C)						
D. Total Wetlands														
1. Wetlands remaining Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2. Land converted to Wetlands ⁽⁵⁾														
2.1 Forest Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.2 Cropland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.3 Grassland converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.4 Settlements converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													
2.5 Other Land converted to Wetlands														
	England													
	Scotland													
	Wales													
	Northern Ireland													

⁽¹⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.

⁽³⁾ CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.

⁽⁴⁾ The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).

⁽⁵⁾ A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.D.2 Land converted to Wetlands:Wetlands are included in either Grassland or Other Land due to existing classifications in land use map data.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS					EMISSIONS/REMOVALS				
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)(5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾
			Increase	Decrease	Net change			Increase	Decrease	Net change		
			(Mg C/ha)						(Gg C)			
E. Total Settlements		1,231.5219	0.0112	IE,NO	0.0112	IE,NO	-1.3798	13.7870	IE,NO	13.7870	IE,NO	-1,699.2955
1. Settlements remaining Settlements		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Land converted to Settlements ⁽⁶⁾		1,231.5219	0.0112	IE,NO	0.0112	IE,NO	-1.3798	13.7870	IE,NO	13.7870	IE,NO	-1,699.2955
2.1 Forest Land converted to Settlements		51.7432	IE,NO	IE,NO	IE,NO	IE	-0.5190	IE,NO	IE,NO	IE,NO	IE	-26.8565
	UK pre-1990	51.2295	NO	NO	NO	IE	-0.1435	NO	NO	NO	IE	-7.3520
	UK post-1990	0.5137	IE	IE	IE	IE	-37.9708	IE	IE	IE	IE	-19.5045
2.2 Cropland converted to Settlements		302.7674	0.0105	IE,NO	0.0105	IE	-0.7086	3.1691	IE,NO	3.1691	IE	-214.5339
	England pre-1990	225.3365	NO	NO	NO	IE	-0.4758	NO	NO	NO	IE	-107.2115
	Scotland pre-1990	29.0390	NO	NO	NO	IE	-0.6731	NO	NO	NO	IE	-19.5455
	Wales pre-1990	6.7379	NO	NO	NO	IE	-0.7643	NO	NO	NO	IE	-5.1495
	Northern Ireland pre-1990	2.0592	NO	NO	NO	IE	-0.6549	NO	NO	NO	IE	-1.3486
	England post-1990	34.0600	0.0795	IE	0.0795	IE	-1.9626	2.7091	IE	2.7091	IE	-66.8454
	Scotland post-1990	1.9640	0.0886	IE	0.0886	IE	-2.4414	0.1741	IE	0.1741	IE	-4.7949
	Wales post-1990	2.9220	0.0820	IE	0.0820	IE	-2.6776	0.2396	IE	0.2396	IE	-7.8240
	Northern Ireland post-1990	0.6489	0.0713	IE	0.0713	IE	-2.7963	0.0463	IE	0.0463	IE	-1.8145
2.3 Grassland converted to Settlements		877.0113	0.0121	IE,NO	0.0121	IE	-1.6624	10.6179	IE,NO	10.6179	IE	-1,457.9051
	England pre-1990	445.9785	NO	NO	NO	IE	-0.7577	NO	NO	NO	IE	-337.8986
	Scotland pre-1990	100.9125	NO	NO	NO	IE	-1.7497	NO	NO	NO	IE	-176.5664
	Wales pre-1990	71.4919	NO	NO	NO	IE	-1.0402	NO	NO	NO	IE	-74.3627
	Northern Ireland pre-1990	43.2320	NO	NO	NO	IE	-1.4153	NO	NO	NO	IE	-61.1846
	England post-1990	135.3800	0.0481	IE	0.0481	IE	-2.7859	6.5058	IE	6.5058	IE	-377.1601
	Scotland post-1990	35.5360	0.0570	IE	0.0570	IE	-6.8536	2.0253	IE	2.0253	IE	-243.5502
	Wales post-1990	28.4200	0.0508	IE	0.0508	IE	-3.4742	1.4427	IE	1.4427	IE	-98.7358
	Northern Ireland post-1990	16.0604	0.0401	IE	0.0401	IE	-5.5071	0.6441	IE	0.6441	IE	-88.4468
2.4 Wetlands converted to Settlements		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
2.5 Other Land converted to Settlements		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- (1) Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- (6) A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.E.2.1 Forest Land converted to Settlements: Changes in stocks of carbon in dead biomass are included with changes in soil carbon. Changes in stock of living biomass are taken into account under Controlled Biomass Burning.

5.E.2.2 Cropland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

5.E.2.3 Grassland converted to Settlements: Categories are split by country and land use conversions occurring prior to 1990 ("pre-1990") and from 1990 onwards ("post-1990") in order to align them with Kyoto Protocol reporting requirements. Changes in stocks of dead biomass are included with changes in stocks of soil carbon. Reported stock changes are net values entered as Increase or Decrease as appropriate.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS						EMISSIONS/REMOVALS					
Land-Use Category	Sub-division ⁽²⁾	Total area (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾		
			Increase	Decrease	Net change			Increase	Decrease	Net change				
			(Mg C/ha)						(Gg C)					
F. Total Other Land		NE,NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1. Other Land remaining Other Land		NE												
2. Land converted to Other Land ⁽⁵⁾		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.1 Forest Land converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.2 Cropland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.3 Grassland converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.4 Wetlands converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2.5 Settlements converted to Other Land		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

- (1) Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zones or national land classification.
- (3) CO₂ emissions and removals (carbon stock increase and decrease) should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on increases and decreases.
- (4) The signs for estimates of increases in carbon stocks are positive (+) and of decreases in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest and grassland conversion should be provided in table 5 as an information item.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.F.2.1 Forest Land converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.2 Cropland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.3 Grassland converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.4 Wetlands converted to Other Land:Conversion of land to the Other Land category is negligible.
5.F.2.5 Settlements converted to Other Land:Conversion of land to the Other Land category is negligible.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2005

Direct N₂O emissions from N fertilization ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Total amount of fertilizer applied	N ₂ O-N emissions per unit of fertilizer	N ₂ O
	(Gg N/yr)	(kg N ₂ O-N/kg N) ⁽³⁾	(Gg)
Total for all Land Use Categories	NE	NE	NE
A. Forest Land ^{(4), (5)}	NE	NE	NE
1. Forest Land remaining Forest Land	NE	NE	NE
2. Land converted to Forest Land	NE	NE	NE
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amount of fertilizers applied to forest land. The indirect N₂O emissions from forest land are estimated as part of the total indirect emissions (Agriculture sector and Forest Land) in the Agriculture sector based on the total fertilizers used in the country.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land when data are not available to report forest land remaining forest land and land conversion to forest land separately.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

5.A.1 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

5.A.1 Direct N₂O emissions from N fertilization/2005:

5.A.2 Direct N₂O emissions from N fertilization:Methodology being developed but emissions small.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Inventory 2005

N₂O emissions from drainage of soils ⁽¹⁾

Submission 2006 v1.1

(Sheet 1 of 1)

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area of drained soils	N ₂ O-N per area drained ⁽⁴⁾	N ₂ O
		(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories		NE	NE	NE
A. Forest Land		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
D. Wetlands		NE	NE	NE
Organic Soil		NE	NE	NE
Mineral Soil		NE	NE	NE
G. Other (please specify)				

⁽¹⁾ Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but are addressed for forest soils in Appendix 3a.2 of the IPCC good practice guidance for LULUCF (equation 3a.2.1) and for wetland soils in appendix 3a.3.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods

⁽⁴⁾ In the calculation of the implied emission factor N₂O emissions are converted to N₂O-N by multiplying by 28/44

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A Organic Soils:Methodology being developed but emissions small.
5.A Mineral Soils:Methodology being developed but emissions small.
5.A Mineral Soils/2005:

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category ⁽²⁾	Land area converted	N ₂ O-N emissions per area converted ⁽³⁾	N ₂ O
	(kha)	(kg N ₂ O-N/ha)	(Gg)
Total all Land-Use Categories ⁽⁴⁾	NE,NO	NA,NE,NO	NA,NE,NO
B. Cropland	NE,NO	NA,NE,NO	NA,NE,NO
2. Lands converted to Cropland ⁽⁵⁾	NE,NO	NA,NE,NO	NA,NE,NO
Organic Soils	NE,NO	NE,NO	NE,NO
Mineral Soils	NE,NO	NE,NO	NE,NO
2.1 Forest Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
2.2 Grassland converted to Cropland	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.3 Wetlands converted to Cropland ⁽⁶⁾	NE	NE	NE
Organic Soils	NE	NE	NE
Mineral Soils	NE	NE	NE
2.5 Other Land converted to Cropland	NO	NO	NO
Organic Soils	NO	NO	NO
Mineral Soils	NO	NO	NO
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to cropland. N₂O emissions from cropland remaining cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under other lands converted to cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.B.2 N ₂ O emissions from disturbance associated with land-use conversion to cropland: Methodology being developed but emissions small.
5.B.2.1 Forest Land converted to Cropland/2005: There is no conversion of forest land to cropland in the UK.
5.B.2.2 Grassland converted to Cropland/2005:

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Carbon emissions from agricultural lime application ⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS
Land-Use Category	Total amount of lime applied	Carbon emissions per unit of lime	Carbon
	(Mg/yr)	(Mg C/Mg)	(Gg)
Total all Land-Use Categories ^{(2), (3), (4)}	1,587,000.0000	0.1236	196.1520
B. Cropland ⁽⁴⁾	951,440.3082	0.1236	117.5973
Limestone CaCO ₃	615,708.3784	0.1200	73.8850
Dolomite CaMg(CO ₃) ₂	335,731.9298	0.1302	43.7123
C. Grassland ⁽⁴⁾	635,559.6918	0.1236	78.5547
Limestone CaCO ₃	411,291.6216	0.1200	49.3550
Dolomite CaMg(CO ₃) ₂	224,268.0702	0.1302	29.1997
G. Other (please specify) ^(4, 5)			

⁽¹⁾ Carbon emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the total.

⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.

⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Biomass Burning ⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾		(ha or kg dm)		(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories	Biomass burned	kg dm	128,466,923.6464	0.0016	0.0000	0.0000	211.9704	0.9250	0.0064
A. Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Forest land remaining Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Forest Land	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
B. Cropland	Biomass burned	kg dm	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO
1. Cropland remaining Cropland ⁽⁵⁾	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Controlled Burning	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
Wildfires	Biomass burned	kg dm	NA	NA	NA	NA	NA	NA	NA
2. Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Cropland	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
C. Grassland	Biomass burned	kg dm	79,154,415.3557	0.0016	0.0000	0.0000	130.6048	0.5699	0.0039
1. Grassland remaining grassland ⁽⁶⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Grassland	Biomass burned	kg dm	79,154,415.3557	0.0016	0.0000	0.0000	130.6048	0.5699	0.0039
Controlled Burning	Biomass burned	kg dm	79,154,415.3557	0.0016	0.0000	0.0000	130.6048	0.5699	0.0039
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Grassland	Biomass burned	kg dm	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
Controlled Burning	Biomass burned	kg dm	IE	IE	IE	IE	IE	IE	IE
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
D. Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
1. Wetlands remaining Wetlands ⁽⁷⁾	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2. Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
2.1. Forest Land converted to Wetlands	Biomass burned	kg dm	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO	NE,NO
Controlled Burning	Biomass burned	kg dm	NO	NO	NO	NO	NO	NO	NO
Wildfires	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
E. Settlements ⁽⁸⁾	Biomass burned	kg dm	49,312,508.2906	0.0017	0.0000	0.0000	81.3656	0.3551	0.0024
F. Other Land ⁽⁸⁾	Biomass burned	kg dm	NE	NE	NE	NE	NE	NE	NE
G. Other (please specify)									

⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.

⁽²⁾ Parties should report both Controlled/Prescribed Burning and Wildfires emissions, where appropriate, in a separate manner.

⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.

⁽⁵⁾ Field burning of agricultural residues is reported in the Agriculture sector.

⁽⁶⁾ Only includes emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

⁽⁷⁾ Parties do not have to prepare estimates for categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽⁸⁾ Parties do not have to prepare estimates for this category contained in Chapter 3.7.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish. This land-use category is to allow the total of identified land area to match the national area.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
5.A.1 Wildfires:Methodology for estimating emissions due to Wildfires in forests is being developed but emissions may be small.
5.B.2 Wildfires:Methodology being developed but emissions are likely to be small.
5.B.2.1 Forest Land converted to Cropland:Methodology being developed but emissions are likely to be small.
5.C.2 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.
5.C.2.1 Controlled Burning:Emissions from Controlled Burning for 'Forest Land converted to Grassland' are entered in '5.C.2. Land Converted to Grassland/Biomass Burning/Controlled Burning' because the CRF Reporter does not include the figures in the parent node sums at the 5.C.2.1 level.