

**PRVI NACIONALNI IZVJEŠTAJ
BOSNE I HERCEGOVINE U SKLADU SA
OKVIRNOM KONVENCIJOM UJEDINJENIH NACIJA
O KLIMATSKIM PROMJENAMA**

ANEKS I

**KLJUČNI IZVORI ANALIZA I UNIFICIRANI
OBRAZAC ZA IZVJEŠTAVANJE 1990. GODINA**

CATEGORY	KEY SOURCES ANALYSIS	SO2	NOX	NMVOC	CH4	CO	CO2	N2O
		Gg	Gg	Gg	Gg	Gg	Gg	Gg
	BOSNIA AND HERZEGOVINA 1990. YEAR							
	0 total national emissions and removals							
	1 total energy	403.52	76.28	23.00	79.05	111.66	19272.84	0.36
1.A	fuel combustion activities (sectoral approach)	403.52	76.28	23.00	3.01	111.66	19272.84	0.36
1.A.1	energy industries	392.88	51.62	10.03	2.37	7.36	16434.64	0.23
1.A.1.a	public electricity and heat production	375.88	48.06	0.82	0.17	4.31	15254.06	0.22
1.A.1.b	petroleum refining							
1.A.1.c		17.00	3.56	9.21	2.20	3.04	1180.58	0.01
1.A.2	stationary combustion in manufacturing industries and construction	6.97	1.81	0.12	0.06	0.14	530.15	0.01
1.A.2.a	stationary combustion in manuf. ind. and construction: iron and steel	6.97	1.81	0.12	0.06	0.14	530.15	0.01
1.A.2.b	stationary combustion in manuf. ind. and construction: non-ferrous metals							
1.A.2.c	stationary combustion in manuf. ind. and construction: chemicals							
1.A.2.d	stationary combustion in manuf. ind. and construction: pulp, paper and print							
1.A.2.e	stationary combustion in manuf. ind. and construction: food processing, beverages and tobacco							
1.A.3	transport	3.66	22.85	12.85	0.58	104.17	2308.06	0.12
1.A.3.a	civil aviation	NA	NA	NA	NA	NA	NA	NA
1.A.3.a.1	international aviation	NA	NA	NA	NA	NA	NA	NA
1.A.3.a.1.1	international aviation (LTO)	NA	NA	NA	NA	NA	NA	NA
1.A.3.a.1.2	international aviation (cruise)	NA	NA	NA	NA	NA	NA	NA
1.A.3.a.2	domestic aviation	NA	NA	NA	NA	NA	NA	NA
1.A.3.a.2.1								
1.A.3.a.2.2								
1.A.3.b	road transport	3.66	22.85	12.85	0.58	104.17	2308.06	0.12
1.A.3.b.1		0.67	7.85	7.77	0.40	88.13	1031.46	0.05
1.A.3.b.2		0.15	0.57	0.17	0.01	1.68	78.30	0.00
1.A.3.b.3		2.84	14.42	3.08	0.16	13.01	1191.65	0.06
1.A.3.b.4		0.00	0.01	0.29	0.01	1.35	6.64	0.00
1.A.3.b.5		0.00	0.00	1.55	0.00	0.00	0.00	0.00
1.A.3.b.6								
1.A.3.b.7								
1.A.3.c	railways	NA	NA	NA	NA	NA	NA	NA
1.A.3.d	navigation	NA	NA	NA	NA	NA	NA	NA
1.A.3.d.1	international navigation	NA	NA	NA	NA	NA	NA	NA
1.A.3.d.2		NA	NA	NA	NA	NA	NA	NA
1.A.3.e.1	transport other, pipeline compressors	NA	NA	NA	NA	NA	NA	NA
1.A.3.e.2	transport other, other mobile sources and machinery	NA	NA	NA	NA	NA	NA	NA
1.A.4	other sectors	NA	NA	NA	NA	NA	NA	NA
1.A.4.a	commercial / institutional	NA	NA	NA	NA	NA	NA	NA
1.A.4.b	residential	NA	NA	NA	NA	NA	NA	NA
1.A.4.c	agriculture / forestry / fishing	NA	NA	NA	NA	NA	NA	NA
1.A.4.c.1								
1.A.4.c.2								
1.A.4.c.3								
1.A.5	other (please specify)							
1.A.5.a	other, stationary (including military)							
1.A.5.b	other, mobile (including military, land based and recreational boats)							
1.B	fugitive emissions from fuels				76.04			
1.B.1	fugitive emissions from solid fuels				76.04			
1.B.1.a	fugitive emissions from solid fuels: coal mining and handling				76.04			
1.B.1.a.1	underground mines							

1.B.1.a.1.1	mining activities							
1.B.1.a.1.2	post-mining activities							
1.B.1.a.2	surface mines							
1.B.1.a.2.1	mining activities							
1.B.1.a.2.2	post-mining activities							
1.B.1.b	fugitive emissions from solid fuels: solid fuel transformation							
1.B.1.c	other fugitive emissions from solid fuels							
1.B.2	oil and natural gas							
1.B.2.a	oil							
1.B.2.a.1	exploration production, transport							
1.B.2.a.2	production							
1.B.2.a.3	transport							
1.B.2.a.4	refining / storage							
1.B.2.a.5	distribution of oil products							
1.B.2.a.6	geothermal energy extraction							
1.B.2.b	natural gas							
1.B.2.b.1	production / processing							
1.B.2.b.2	transmission							
1.B.2.b.3	other leakage							
1.B.2.c	venting and flaring							
1.B.2.c.1	oil							
1.B.2.c.2	gas							
1.B.2.c.3	combined							
1.B.2.d	other (please specify)							
2	total industrial processes	4.28	2.83	44.74	0.04	11.81	3287.60	0.69
2.A	mineral products	0.24	1.08				736.75	
2.A.1	cement production	0.24	1.08				397.84	
2.A.2	lime production						338.91	
2.A.3	limestone and dolomite use							
2.A.4	soda ash production and use							
2.A.4.1	soda ash production							
2.A.4.2	soda ash use							
2.A.5	asphalt roofing							
2.A.6	road paving with asphalt							
2.A.7	other including non fuel mining & construction (please specify in a covering note)							
2.A.7.1	glass production							
2.B	chemical industry		1.38					0.69
2.B.1	ammonia production							
2.B.2	nitric acid production		1.38					0.69
2.B.3	adipic acid production							
2.B.4	carbide production							
2.B.4.1	silicon carbide							
2.B.4.2	calcium carbide							
2.B.5	other (please specify in a covering note)							
2.B.5.1	carbon black							
2.B.5.2	ethylene							
2.B.5.3	dichloroethylene							
2.B.5.4	styrene							
2.B.5.5	methanol							
2.C	metal production	1.16	0.18		0.04	11.07	2550.86	
2.C.1	iron and steel production				0.01		2273.60	

2.C.1.1	steel					
2.C.1.2	pig iron					
2.C.1.3	sinter					
2.C.1.4	coke					
2.C.1.5	other (please specify)					
2.C.2	ferroalloys production				0.03	129.66
2.C.3	aluminium production	1.16	0.18			147.60
2.C.4	sf6 used in aluminium and magnesium foundries					11.07
2.C.5	other (please specify)					
2.D	other production					
2.D.1	pulp and paper	2.87	0.20	44.74		0.74
2.D.2	food and drink	2.87	0.20	0.65		0.74
2.E	production of POPs			44.09		
2.E.1	by-product emissions					
2.E.1.1	production of hcf-22					
2.E.1.2	other					
2.E.2	fugitive emissions					
2.E.3	other (please specify)					
2.F	consumption of POPs and heavy metals					
2.F.1	refrigeration and air conditioning equipment					
2.F.2	foam blowing					
2.F.3	fire extinguishers					
2.F.4	aerosols/ metered dose inhalers					
2.F.5	solvents					
2.F.6	semiconductor manufacture					
2.F.7	electrical equipment					
2.F.8	other (please specify)					
2.G	other production, consumption, storage, transportation or handling of bulk products (please specify)					
	3 total solvent and other product use					
3.A	paint application					
3.B	degreasing and dry cleaning					
3.C	chemical products					
3.D	other including products containing hms and pops (please specify in a covering note)					
	4 total agriculture				87.37	
4.A	enteric fermentation				73.74	
4.A.01	cattle				64.73	
4.A.01.a	dairy cattle				51.22	
4.A.01.b	non-dairy cattle				13.51	
4.A.02	buffalo					
4.A.03	sheep					
4.A.04	goats					
4.A.05	camels and llamas					
4.A.06	horses				1.80	
4.A.07	mules and asses					
4.A.08	swine				0.61	
4.A.09	poultry					
4.A.10	other (please specify)				6.60	
4.B	manure management				13.64	
4.B.01	cattle				9.96	
4.B.01.a	dairy cattle				7.90	
4.B.01.b	non-dairy cattle				2.05	

4.B.02	buffalo	
4.B.03	sheep	
4.B.04	goats	
4.B.05	camels and llamas	
4.B.06	horses	0.13
4.B.07	mules and asses	
4.B.08	swine	3.37
4.B.09	poultry	
4.B.10	anaerobic lagoons	
4.B.11	liquid systems	
4.B.12	solid storage and dry lot	
4.B.13	other	0.17
4.C	rice cultivation	
4.C.1	irrigated	
4.C.1.1	continuously flooded	
4.C.1.2	intermittently flooded	
4.C.1.2.1	single aeration	
4.C.1.2.2	multiple aeration	
4.C.2	rainfed	
4.C.2.1	flood prone	
4.C.2.2	drought prone	
4.C.3	deep water	
4.C.3.1	water depth 50-100 cm	
4.C.3.2	water depth > 100 cm	
4.C.4	other (please specify)	
4.D	agricultural soils	
4.D.1	direct soil emissions	
4.D.1.a	synthetic fertilizers	
4.D.1.b	animal wastes applied to soils	
4.D.1.c	n-fixing crops	
4.D.1.d	crop residue	
4.D.1.e	cultivation of histosols	
4.D.2	animal production	
4.D.3	indirect emissions	
4.D.3.1	atmospheric deposition	
4.D.3.2	nitrogen leaching and run-off	
4.D.4	other (please specify)	
4.E	prescribed burning of savannas	
4.F	field burning of agricultural wastes	
4.F.1	cereals	
4.F.1.1	wheat	
4.F.1.2	barley	
4.F.1.3	maize	
4.F.1.4	oats	
4.F.1.5	rye	
4.F.1.6	rice	
4.F.1.7	other (please specify)	
4.F.2	pulse	
4.F.2.1	dry bean	
4.F.2.2	peas	
4.F.2.3	soybeans	

4.F.2.4 other (please specify)
 4.F.3 tuber and root
 4.F.3.1 potatoes
 4.F.3.2 other (please specify)
 4.F.4 sugar cane
 4.F.5 other (please specify)
 4.G other
 5 LULUCF - Land Use Land Use Change and Forestry
 5.A Forest Land
 5.A.1.a 5.A.1 Forest Land remaining Forest Land
 5.A.1.b 5.A.1 Forest Land remaining Forest Land \ 5(I) Direct N2O emissions from N fertilization of Forest Land and Other
 5.A.1.c 5.A.1 Forest Land remaining Forest Land \ 5(II) Non-CO2 emissions from drainage of soils and wetlands \ Mineral Soils
 5.A.1.d 5.A.1 Forest Land remaining Forest Land \ 5(II) Non-CO2 emissions from drainage of soils and wetlands \ Organic Soils
 5.A.1.e 5.A.1 Forest Land remaining Forest Land \ 5(V) Biomass Burning \ Controlled Burning
 5.A.1.f 5.A.1 Forest Land remaining Forest Land \ 5(V) Biomass Burning \ Wildfires
 5.A.1.g 5.A.1 Forest Land remaining Forest Land \ Carbon stock change
 5.A.2.a 5.A.2 Land converted to Forest Land
 5.A.2.b 5.A.2 Land converted to Forest Land \ 5(I) Direct N2O emissions from N fertilization of Forest Land and Other
 5.A.2.c 5.A.2 Land converted to Forest Land \ 5(V) Biomass Burning \ Controlled Burning
 5.A.2.d 5.A.2 Land converted to Forest Land \ 5(V) Biomass Burning \ Wildfires
 5.B Cropland
 5.B.1.a 5.B.1 Cropland remaining Cropland
 5.B.1.b 5.B.1 Cropland remaining Cropland \ 5(IV) CO2 emissions from agricultural lime application \ Dolomite CaMg(CO3)2
 5.B.1.c 5.B.1 Cropland remaining Cropland \ 5(IV) CO2 emissions from agricultural lime application \ Limestone CaCO3
 5.B.1.d 5.B.1 Cropland remaining Cropland \ 5(V) Biomass Burning \ Controlled Burning
 5.B.1.e 5.B.1 Cropland remaining Cropland \ 5(V) Biomass Burning \ Wildfires
 5.B.1.f 5.B.1 Cropland remaining Cropland \ Carbon stock change
 5.B.2.1.a 5.B.2.1 Forest Land converted to Cropland
 5.B.2.1.b 5.B.2.1 Forest Land converted to Cropland \ Controlled Burning
 5.B.2.1.c 5.B.2.1 Forest Land converted to Cropland \ Wildfires
 5.B.2.2 5.B.2.2 Grassland converted to Cropland
 5.B.2.3 5.B.2.3 Wetlands converted to Cropland
 5.B.2.4 5.B.2.4 Settlements converted to Cropland
 5.B.2.5 5.B.2.5 Other Land converted to Cropland
 5.B.2.a 5.B.2 Land converted to Cropland
 5.B.2.b 5.B.2 Land converted to Cropland \ 5(V) Biomass Burning \ Controlled Burning
 5.B.2.c 5.B.2 Land converted to Cropland \ 5(V) Biomass Burning \ Wildfires
 5.C Grassland
 5.C.1.a 5.C.1 Grassland remaining Grassland
 5.C.1.b 5.C.1 Grassland remaining Grassland \ 5(IV) CO2 emissions from agricultural lime application \ Dolomite CaMg(CO3)2
 5.C.1.c 5.C.1 Grassland remaining Grassland \ 5(IV) CO2 emissions from agricultural lime application \ Limestone CaCO3
 5.C.1.d 5.C.1 Grassland remaining Grassland \ 5(V) Biomass Burning \ Controlled Burning
 5.C.1.e 5.C.1 Grassland remaining Grassland \ 5(V) Biomass Burning \ Wildfires
 5.C.1.f 5.C.1 Grassland remaining Grassland \ Carbon stock change
 5.C.2.1.a 5.C.2.1 Forest Land converted to Grassland
 5.C.2.1.b 5.C.2.1 Forest Land converted to Grassland \ Controlled Burning
 5.C.2.1.c 5.C.2.1 Forest Land converted to Grassland \ Wildfires
 5.C.2.2 5.C.2.2 Cropland converted to Grassland
 5.C.2.3 5.C.2.3 Wetlands converted to Grassland
 5.C.2.4 5.C.2.4 Settlements converted to Grassland
 5.C.2.5 5.C.2.5 Other Land converted to Grassland

5.C.2.a	5.C.2 Land converted to Grassland	
5.C.2.b	5.C.2 Land converted to Grassland \ 5(V) Biomass Burning \ Controlled Burning	
5.C.2.c	5.C.2 Land converted to Grassland \ 5(V) Biomass Burning \ Wildfires	
5.D	Wetlands	
5.D.1.a	5.D.1 Wetlands remaining Wetlands	
5.D.1.b	5.D.1 Wetlands remaining Wetlands \ 5(V) Biomass Burning \ Controlled Burning	
5.D.1.c	5.D.1 Wetlands remaining Wetlands \ 5(V) Biomass Burning \ Wildfires	
5.D.1.d	5.D.1 Wetlands remaining Wetlands \ Carbon stock change	
5.D.2.1.a	5.D.2.1 Forest Land converted to Wetlands	
5.D.2.1.b	5.D.2.1 Forest Land converted to Wetlands \ Controlled Burning	
5.D.2.1.c	5.D.2.1 Forest Land converted to Wetlands \ Wildfires	
5.D.2.2	5.D.2.2 Cropland converted to Wetlands	
5.D.2.3	5.D.2.3 Grassland converted to Wetlands	
5.D.2.4	5.D.2.4 Settlements converted to Wetlands	
5.D.2.5	5.D.2.5 Other Land converted to Wetlands	
5.D.2.a	5.D.2 Land converted to Wetlands	
5.D.2.b	5.D.2 Land converted to Wetlands \ 5(II) Non-CO2 emissions from drainage of soils and wetlands \ Flooded Lands	
5.D.2.c	5.D.2 Land converted to Wetlands \ 5(II) Non-CO2 emissions from drainage of soils and wetlands \ Peatland	
5.D.2.d	5.D.2 Land converted to Wetlands \ 5(V) Biomass Burning \ Controlled Burning	
5.D.2.e	5.D.2 Land converted to Wetlands \ 5(V) Biomass Burning \ Wildfires	
5.E	5.E Settlements \ 5(V) Biomass Burning	
5.E.1.a	5.E.1 Settlements remaining Settlements	
5.E.1.b	5.E.1 Settlements remaining Settlements \ Carbon stock change	
5.E.2	5.E.2 Land converted to Settlements	
5.E.2.1	5.E.2.1 Forest Land converted to Settlements	
5.E.2.2	5.E.2.2 Cropland converted to Settlements	
5.E.2.3	5.E.2.3 Grassland converted to Settlements	
5.E.2.4	5.E.2.4 Wetlands converted to Settlements	
5.E.2.5	5.E.2.5 Other Land converted to Settlements	
5.F	5.F Other Land \ 5(V) Biomass Burning	
5.F.1	5.F.1 Other Land remaining Other Land \ Carbon stock change	
5.F.2	5.F.2 Land converted to Other Land	
5.F.2.1	5.F.2.1 Forest Land converted to Other Land	
5.F.2.2	5.F.2.2 Cropland converted to Other Land	
5.F.2.3	5.F.2.3 Grassland converted to Other Land	
5.F.2.4	5.F.2.4 Wetlands converted to Other Land	
5.F.2.5	5.F.2.5 Settlements converted to Other Land	
5.G	5.G Other (please specify) \ Harvested Wood Products	
5.I	5 LULUCF \ Information Items \ Forest Land converted to Other Land-Use Categories	
5.II	5 LULUCF \ Information Items \ Grassland converted to Other Land-Use Categories	
6	total waste	47.26
6.A	solid waste disposal on land	47.26
6.A.1	managed waste disposal on land	
6.A.2	unmanaged waste disposal sites	
6.A.2.1	deep (>5 m)	
6.A.2.2	shallow (<5 m)	
6.A.3	other (please specify)	
6.B	waste-water handling	
6.B.1	industrial wastewater	
6.B.2	domestic and commercial wastewater	
6.B.3	other (please specify)	

6.C	waste incineration
6.C.1	biogenic
6.C.2	non-biogenic
6.C.2.a	waste incineration/other/municipal
6.C.2.b	waste incineration/other/industrial
6.C.2.c	waste incineration/Other (non-biogenic - please specify)/Other non-specified
6.C.2.d	waste incineration/Other (non-biogenic - please specify)/Sewage Sludge incineration
6.C.a	Clinical Waste Incineration
6.C.b	Industrial Waste Incineration
6.C.c	Municipal Waste Incineration
6.C.d	Cremation
6.C.e	Small Scale Waste Burning
6.D	other waste
7.A	other

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 2)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	NO _x	CO	NM _{VOC}	SO ₂
	(Gg)						
Total Energy	23,121.74	77.51	0.45	81.31	112.70	27.01	448.89
A. Fuel Combustion Activities (Sectoral Approach)	23,121.74	1.46	0.45	81.31	112.70	27.01	448.89
1. Energy Industries	16,434.64	0.20	0.23	51.62	7.35	10.03	392.88
a. Public Electricity and Heat Production	15,254.06	0.17	0.22	48.06	4.31	0.82	375.88
b. Petroleum Refining	0.00	0.00	0.00	NE	NE	NE	NE
c. Manufacture of Solid Fuels and Other Energy Industries	1,180.58	0.03	0.01	3.56	3.04	9.21	17.00
2. Manufacturing Industries and Construction	530.16	0.07	0.01	1.81	0.17	0.13	6.97
a. Iron and Steel	0.00	0.00	0.00	NE	NE	NE	NE
b. Non-Ferrous Metals	0.00	0.00	0.00	NE	NE	NE	NE
c. Chemicals	0.00	0.00	0.00	NE	NE	NE	NE
d. Pulp, Paper and Print	0.00	0.00	0.00	NE	NE	NE	NE
e. Food Processing, Beverages and Tobacco	0.00	0.00	0.00	NE	NE	NE	NE
f. Other (<i>please specify</i>) ...	530.16	0.07	0.01	1.81	0.17	0.13	6.97
				1.81	0.17	0.13	6.97
3. Transport	2,308.06	0.59	0.12	22.85	104.17	12.85	3.66
a. Civil Aviation	0.00	0.00	0.00	NE	NE	NE	NE
b. Road Transportation	2,308.06	0.59	0.12	22.85	104.17	12.85	3.66
c. Railways	0.00	0.00	0.00	NE	NE	NE	NE
d. Navigation	0.00	0.00	0.00	NE	NE	NE	NE
e. Other Transportation (<i>please specify</i>) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 2 of 2)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	NO _x	CO	NM VOC	SO ₂
	(Gg)						
4. Other Sectors	3,848.88	0.60	0.09	5.03	1.01	4.00	45.38
a. Commercial/Institutional	3,683.71	0.41	0.07	4.50	0.97	3.86	44.27
b. Residential	165.17	0.19	0.02	0.53	0.04	0.14	1.11
c. Agriculture/Forestry/Fisheries	0.00	0.00	0.00	NE	NE	NE	NE
5. Other (please specify) ⁽¹⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00
a. Stationary ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00
b. Mobile ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	0.00	76.05	0.00	0.00	0.00	0.00	0.00
1. Solid Fuels	0.00	76.05	0.00	0.00	0.00	0.00	0.00
a. Coal Mining	0.00	76.05	NE	NE	NE	NE	
b. Solid Fuel Transformation	0.00	0.00	NE	NE	NE	NE	NE
c. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00
a. Oil	0.00	0.00		NE	NE	NE	NE
b. Natural Gas	0.00	0.00				NE	NE
c. Venting and Flaring	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Venting	0.00	0.00				NE	NE
Flaring	0.00	0.00	0.00	NE	NE	NE	NE
d. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Memo Items: ⁽²⁾							
International Bunkers	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aviation	0.00	0.00	0.00	NE	NE	NE	NE
Marine	0.00	0.00	0.00	NE	NE	NE	NE
Multilateral Operations	0.00	0.00	0.00	NE	NE	NE	NE
CO₂ Emissions from Biomass	0.00						

⁽¹⁾ Include military fuel use under this category.

⁽²⁾ Please do not include in energy totals.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 1 of 4)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS ⁽²⁾			EMISSIONS		
	Consumption	⁽¹⁾	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O
	(TJ)		(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
I.A. Fuel Combustion	274,557.35	NCV				23,121.74	1.46	0.45
Liquid Fuels	58,244.47	NCV	68.87	13.74	2.23	4,011.33	0.80	0.13
Solid Fuels	192,650.26	NCV	92.31	3.17	1.51	17,782.94	0.61	0.29
Gaseous Fuels	23,662.62	NCV	56.10	2.11	1.27	1,327.47	0.05	0.03
Biomass	0.00	NCV	0.00	0.00	0.00 ⁽³⁾	0.00	0.00	0.00
Other Fuels	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
I.A.1. Energy Industries	183,602.06	NCV				16,434.64	0.20	0.23
Liquid Fuels	3,962.66	NCV	73.33	5.05	0.00	290.60	0.02	0.00
Solid Fuels	167,061.40	NCV	92.41	1.02	1.38	15,438.41	0.17	0.23
Gaseous Fuels	12,578.00	NCV	56.10	0.80	0.00	705.63	0.01	0.00
Biomass	0.00	NCV	0.00	0.00	0.00 ⁽³⁾	0.00	0.00	0.00
Other Fuels	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
a. Public Electricity and Heat Production	162,983.68	NCV				15,254.06	0.17	0.22
Liquid Fuels	1,668.11	NCV	73.33	5.99	0.00	122.33	0.01	0.00
Solid Fuels	157,386.37	NCV	94.74	1.02	1.40	14,911.30	0.16	0.22
Gaseous Fuels	3,929.20	NCV	56.10	0.00	0.00	220.43	0.00	0.00
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NO	NO	NO	NO	NO	NO
b. Petroleum Refining	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
c. Manufacture of Solid Fuels and Other Energy Industries	20,618.38	NCV				1,180.58	0.03	0.01
Liquid Fuels	2,294.54	NCV	73.33	4.36	0.00	168.27	0.01	0.00
Solid Fuels	9,675.04	NCV	54.48	1.03	1.03	527.11	0.01	0.01
Gaseous Fuels	8,648.80	NCV	56.10	1.16	0.00	485.20	0.01	0.00
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE

⁽¹⁾ Activity data should be calculated using net calorific values (NCV) as specified by the IPCC Guidelines. If gross calorific values (GCV) were used, please indicate this by replacing "NCV" with "GCV" in this column.

⁽²⁾ Accurate estimation of CH₄ and N₂O emissions depends on combustion conditions, technology, and emission control policy, as well as fuel characteristics. Therefore, caution should be used when comparing the implied emission factors.

⁽³⁾ Carbon dioxide emissions from biomass are reported under Memo Items. The content of the cells is not included in the totals.

Note: For the coverage of fuel categories, please refer to the IPCC Guidelines (Volume 1. Reporting Instructions - Common Reporting Framework, section 1.2, p. 1.19). If some derived gases (e.g. gas work gas, coke oven gas, blast gas, oxygen steel furnace gas, etc.) are considered, Parties should provide information on the allocation of these derived gases under the above fuel categories (liquid, solid, gaseous, biomass, other fuels) in the documentation box at the end of sheet 4 of this table.

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 2 of 4)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS ⁽²⁾			EMISSIONS		
	Consumption		CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O
	(TJ)	⁽¹⁾	(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
I.A.2 Manufacturing Industries and Construction	8,530.51	NCV				530.16	0.07	0.01
Liquid Fuels	2,956.97	NCV	19.51	3.38	0.00	57.69	0.01	0.00
Solid Fuels	5,573.54	NCV	84.77	10.77	1.79	472.47	0.06	0.01
Gaseous Fuels	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
Biomass	0.00	NCV	0.00	0.00	0.00 ⁽³⁾	0.00	0.00	0.00
Other Fuels	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
a. Iron and Steel	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
b. Non-Ferrous Metals	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
c. Chemicals	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
d. Pulp, Paper and Print	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
e. Food Processing, Beverages and Tobacco	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
f. Other (please specify)	8,530.51	NCV				530.16	0.07	0.01
Liquid Fuels	2,956.97	NCV	19.51	3.38	0.00	57.69	0.01	0.00
Solid Fuels	5,573.54	NCV	84.77	10.77	1.79	472.47	0.06	0.01
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 3 of 4)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS ⁽²⁾			EMISSIONS		
	Consumption	⁽¹⁾	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O
	(TJ)		(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
I.A.3 Transport	32,847.76	NCV				2,308.06	0.59	0.12
Gasoline	11,948.17	NCV	80.65	36.83	2.51	963.60	0.44	0.03
Diesel	20,899.59	NCV	64.33	7.18	4.31	1,344.46	0.15	0.09
Natural Gas	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
Solid Fuels	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
Biomass	0.00	NCV	0.00	0.00	0.00 ⁽³⁾	0.00	0.00	0.00
Other Fuels	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
a. Civil Aviation	0.00	NCV				0.00	0.00	0.00
Aviation Gasoline	0.00	NCV	NE	NE	NE	NE	NE	NE
Jet Kerosene	0.00	NCV	NE	NE	NE	NE	NE	NE
b. Road Transportation	32,847.76	NCV				2,308.06	0.59	0.12
Gasoline	11,948.17	NCV	80.65	36.83	2.51	963.60	0.44	0.03
Diesel Oil	20,899.59	NCV	64.33	7.18	4.31	1,344.46	0.15	0.09
Natural Gas	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels (please specify) ---	0.00	NCV				0.00	0.00	0.00
	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
c. Railways	0.00	NCV				0.00	0.00	0.00
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Other Fuels (please specify) ---	0.00	NCV				0.00	0.00	0.00
	0.00	NCV	0.00	0.00	0.00			
d. Navigation	0.00	NCV				0.00	0.00	0.00
Coal	0.00	NCV	NE	NE	NE	NE	NE	NE
Residual Oil	0.00	NCV	NE	NE	NE	NE	NE	NE
Gas/Diesel Oil	0.00	NCV	NE	NE	NE	NE	NE	NE
Other Fuels (please specify) ---	0.00	NCV				0.00	0.00	0.00
	0.00	NCV	0.00	0.00	0.00			
e. Other Transportation	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel Combustion Activities - Sectoral Approach
(Sheet 4 of 4)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS ⁽²⁾			EMISSIONS		
	Consumption	⁽¹⁾	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O
	(TJ)		(t/TJ)	(kg/TJ)	(kg/TJ)	(Gg)	(Gg)	(Gg)
I.A.4 Other Sectors	49,577.02	NCV				3,848.88	0.60	0.09
Liquid Fuels	18,477.09	NCV	73.33	9.74	0.54	1,354.98	0.18	0.01
Solid Fuels	20,015.32	NCV	93.53	18.99	2.50	1,872.06	0.38	0.05
Gaseous Fuels	11,084.62	NCV	56.10	3.61	2.71	621.84	0.04	0.03
Biomass	0.00	NCV	0.00	0.00	0.00 ⁽³⁾	0.00	0.00	0.00
Other Fuels	0.00	NCV	0.00	0.00	0.00	0.00	0.00	0.00
a. Commercial/Institutional	47,788.86	NCV				3,683.71	0.41	0.07
Liquid Fuels	18,411.15	NCV	73.33	9.78	0.54	1,350.14	0.18	0.01
Solid Fuels	18,633.96	NCV	92.89	10.20	1.61	1,730.85	0.19	0.03
Gaseous Fuels	10,743.76	NCV	56.10	3.72	2.79	602.72	0.04	0.03
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
b. Residential	1,788.16	NCV				165.17	0.19	0.02
Liquid Fuels	65.94	NCV	73.40	0.00	0.00	4.84	0.00	0.00
Solid Fuels	1,381.36	NCV	102.23	137.55	14.48	141.21	0.19	0.02
Gaseous Fuels	340.86	NCV	56.09	0.00	0.00	19.12	0.00	0.00
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
c. Agriculture/Forestry/Fisheries	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
I.A.5 Other (Not elsewhere specified)⁽⁴⁾	0.00	NCV				0.00	0.00	0.00
Liquid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Solid Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Gaseous Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE
Biomass	0.00	NCV	NO	NO	NO ⁽³⁾	NO	NO	NO
Other Fuels	0.00	NCV	NE	NE	NE	NE	NE	NE

⁽⁴⁾ Include military fuel use under this category.

Documentation Box:

TABLE 1.A(b) SECTORAL BACKGROUND DATA FOR ENERGY
CO₂ from Fuel Combustion Activities - Reference Approach (IPCC Worksheet 1-1)
 (Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

FUEL TYPES			Unit	Production	Imports	Exports	International bunkers	Stock change	Apparent consumption	Conversion factor ⁽¹⁾ (TJ/Unit)	⁽¹⁾	Apparent consumption (TJ)	Carbon emission factor (t C/TJ)	Carbon content (Gg C)	Carbon stored (Gg C)	Net carbon emissions (Gg C)	Fraction of carbon oxidized	Actual CO ₂ emissions (Gg CO ₂)	
Liquid Fossil	Primary Fuels	Crude Oil		NO	NE	NE		NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00	
		Orimulsion		NO	NO	NO		NO	0.00	NO	NCV	0.00	NO	0.00	NO	0.00	NO	0.00	
		Natural Gas Liquids		NO	NO	NO		NO	0.00	NO	NCV	0.00	NO	0.00	NO	0.00	NO	0.00	
	Secondary Fuels	Gasoline	kt		302.70	NE	NE	NE	NE	302.70	44.80	NCV	13,560.96	18.90	256.30		256.30	0.99	930.38
		Jet Kerosene			NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00
		Other Kerosene			NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00
		Shale Oil			NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00
		Gas / Diesel Oil	kt		428.50	NE	NE	NE	NE	428.50	43.33	NCV	18,566.91	20.20	375.05	0.00	375.05	0.99	1,361.44
		Residual Fuel Oil	kt		604.68					604.68	42.00	NCV	25,396.71	21.10	535.87		535.87	0.99	1,945.21
		LPG	NO		NO	NO		NO	NO	0.00	NO	NCV	0.00	NO	0.00	0.00	0.00	NO	0.00
		Ethane	NO		NO	NO		NO	NO	0.00	NO	NCV	0.00	NO	0.00	0.00	0.00	NO	0.00
		Naphtha	NO		NO	NO		NO	NO	0.00	NO	NCV	0.00	NO	0.00	0.00	0.00	NO	0.00
		Bitumen	NE		NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	0.00	0.00	NE	0.00
		Lubricants	NE		NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	0.00	0.00	NE	0.00
		Petroleum Coke	NE		NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00
		Refinery Feedstocks	NE		NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00
Other Oil	NE		NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00		
Liquid Fossil Totals												57,524.58		1,167.22	0.00	1,167.22		4,237.02	
Solid Fossil	Primary Fuels	Anthracite ⁽²⁾	kt	7,522.75	NE	NE		NE	7,522.75	15.05	NCV	113,217.33	26.80	3,034.22		3,034.22	0.98	10,902.98	
		Coking Coal		NE	NE	NE		NE	0.00	NE	NCV	0.00	NE	0.00	0.00	0.00	NE	0.00	
		Other Bit. Coal		NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00	
		Sub-bit. Coal		NE	NE	NE	NE	NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00	
		Lignite	kt	6,371.13	NE	NE	NE		NE	6,371.13	10.43	NCV	66,450.92	27.60	1,834.05		1,834.05	0.98	6,590.34
	Oil Shale		NE	NE	NE		NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00		
	Peat		NO	NO	NO		NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00		
	Secondary Fuels	BKB & Patent Fuel			NE	NE		NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00	
Coke Oven/Gas Coke				NE	NE		NE	0.00	NE	NCV	0.00	NE	0.00	NE	0.00	NE	0.00		
Solid Fuel Totals												179,668.24		4,868.27	0.00	4,868.27		17,493.32	
Gaseous Fossil	Natural Gas (Dry)	1000 m ³	NO	622,700.47					622,700.47	0.038	NCV	23,662.62	15.30	362.04	0.00	362.04	0.995	1,320.84	
Total												260,855.44		6,397.53	0.00	6,397.53		23,051.10	
Biomass total												0.00		0.00	0.00	0.00		0.00	
	Solid Biomass			NO	NO	NO		NO	0.00	NO	NCV	0.00	NO	0.00	NO	0.00	NO	0.00	
	Liquid Biomass			NO	NO	NO		NO	0.00	NO	NCV	0.00	NO	0.00	NO	0.00	NO	0.00	
	Gas Biomass			NO	NO	NO		NO	0.00	NO	NCV	0.00	NO	0.00	NO	0.00	NO	0.00	

⁽¹⁾ To convert quantities expressed in natural units to energy units, use net calorific values (NCV). If gross calorific values (GCV) are used in this table, please indicate this by replacing "NCV" with "GCV" in this column.

⁽²⁾ If Anthracite is not separately available, include with Other Bituminous Coal.

TABLE 1.A(c) COMPARISON OF CO₂ EMISSIONS FROM FUEL COMBUSTION
(Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990
 Submissio 2009

FUEL TYPES	Reference approach		National approach ⁽¹⁾		Difference ⁽²⁾	
	Energy consumption (PJ)	CO ₂ emissions (Gg)	Energy consumption (PJ)	CO ₂ emissions (Gg)	Energy consumption (%)	CO ₂ emissions (%)
Liquid Fuels (excluding international bunkers)	57.52	4,237.02	58.24	4,011.33	-1.24	5.63
Solid Fuels (excluding international bunkers)	179.67	17,493.32	192.65	17,782.94	-6.74	-1.63
Gaseous Fuels	23.66	1,320.84	23.66	1,327.47	0.00	-0.50
Other ⁽³⁾			0.00	0.00	0.00	0.00
Total ⁽³⁾	260.86	23,051.18	274.56	23,121.74	-4.99	-0.31

⁽¹⁾ "National approach" is used to indicate the approach (if different from the Reference approach) followed by the Party to estimate its CO₂ emissions from fuel combustion reported in the national GHG inventory.

⁽²⁾ Difference of the Reference approach over the National approach (i.e. difference = 100% x ((RA-NA)/NA), where NA = National approach and RA = Reference approach).

⁽³⁾ Emissions from biomass are not included.

Note: In addition to estimating CO₂ emissions from fuel combustion by sector, Parties should also estimate these emissions using the IPCC Reference approach, as found in the IPCC Guidelines, Worksheet 1-1(Volume 2. Workbook). The Reference approach is to assist in verifying the sectoral data. Parties should also complete the above tables to compare the alternative estimates, and if the emission estimates lie more than 2 percent apart, should explain the source of this difference in the documentation box provided.

Documentation Box:

TABLE 1.A(d) SECTORAL BACKGROUND DATA FOR ENERGY
Feedstocks and Non-Energy Use of Fuels
(Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

FUEL TYPE ⁽¹⁾	ACTIVITY DATA AND RELATED INFORMATION		IMPLIED EMISSION FACTOR	ESTIMATE
	Fuel quantity (TJ)	Fraction of carbon stored	Carbon emission factor (t C/TJ)	of carbon stored in non-energy use of fuels (Gg C)
Naphtha ⁽²⁾			0.00	
Lubricants			0.00	
Bitumen			0.00	
Coal Oils and Tars (from Coking Coal)			0.00	
Natural Gas ⁽²⁾			0.00	
Gas/Diesel Oil ⁽²⁾			0.00	
LPG ⁽²⁾			0.00	
Butane ⁽²⁾			0.00	
Ethane ⁽²⁾			0.00	
Other (please specify) ...				
			0.00	

Additional information ^(a)

CO ₂ not emitted (Gg CO ₂)	Subtracted from energy sector (specify source category)
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	
0.00	

⁽¹⁾ Where fuels are used in different industries, please enter in different rows.

⁽²⁾ Enter these fuels when they are used as feedstocks.

^(a) The fuel lines continue from the table to the left.

Note: The table is consistent with the IPCC Guidelines. Parties that take into account the emissions associated with the use and disposal of these feedstocks could continue to use their methodology, and provide explanation notes in the documentation box below.

Documentation box: A fraction of energy carriers is stored in such products as plastics or asphalt. The non-stored fraction of the carbon in the energy carrier or product is oxidized, resulting in carbon dioxide emissions, either during the use of the energy carriers in the industrial production (e.g. fertilizer production), or during the use of the products (e.g. solvents, lubricants), or in both (e.g. monomers). To report associated emissions use the above table, filling an extra "Additional information" table, as shown below.	
Associated CO ₂ emissions (Gg)	Allocated under ... ^(a) e.g. Industrial Processes, Waste Incineration, etc. (Specify source category) ^(a)

TABLE 1.B.1 SECTORAL BACKGROUND DATA FOR ENERGY

Fugitive Emissions from Solid Fuels

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTOR		EMISSIONS	
	Amount of fuel produced ⁽¹⁾	CH ₄	CO ₂	CH ₄	CO ₂
	(Mt)	(kg/t)	(kg/t)	(Gg)	(Gg)
I. B. 1. a. Coal Mining and Handling	0.00			76.05	0.00
i. Underground Mines ⁽²⁾	0.00	0.00	0.00	66.26	0.00
Mining Activities		0.00	0.00	66.26	
Post-Mining Activities		0.00	0.00		
ii. Surface Mines ⁽²⁾	0.00	0.00	0.00	9.79	0.00
Mining Activities		0.00	0.00	9.79	
Post-Mining Activities		0.00	0.00		
I. B. 1. b. Solid Fuel Transformation	0.00	0.00	0.00		
I. B. 1. c. Other (please specify) ⁽³⁾ <input type="button" value="..."/>				0.00	0.00
	0.00	0.00	0.00		

Additional information ^(a)

Description	Value
Amount of CH ₄ drained (recovered) and utilized or flared (Gg)	
Number of active underground mines	
Number of mines with drainage (recovery) systems	

^(a) For underground mines.

⁽¹⁾ Use the documentation box to specify whether the fuel amount is based on the run-of-mine (ROM) production or on the saleable production.

⁽²⁾ Emissions both for Mining Activities and Post-Mining Activities are calculated with the activity data in lines Underground Mines and Surface Mines respectively.

⁽³⁾ Please click on the button to enter any other solid fuel related activities resulting in fugitive emissions, such as emissions from abandoned mines and waste piles.

Note: There are no clear references to the coverage of 1.B.1.b. and 1.B.1.c. in the IPCC Guidelines. Make sure that the emissions entered here are not reported elsewhere. If they are reported under another source category, indicate this (IE) and make a reference in Table 9 (completeness) and/or in the documentation box.

Documentation box:

TABLE 1.B.2 SECTORAL BACKGROUND DATA FOR ENERGY
Fugitive Emissions from Oil, Natural Gas and Other Sources
 (Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	Description ⁽¹⁾	Unit	Value	CO ₂ (kg/unit) ⁽²⁾	CH ₄ (kg/unit) ⁽²⁾	N ₂ O (kg/unit) ⁽²⁾	CO ₂ (Gg)	CH ₄ (Gg)	N ₂ O (Gg)
1. B. 2. a. Oil ⁽³⁾							0.00	0.00	
i. Exploration	(e.g. number of wells drilled)		0.00	NO	NO		NO	NO	
ii. Production ⁽⁴⁾	(e.g. PJ of oil produced)		0.00	NO	NO		NO	NO	
iii. Transport	(e.g. PJ oil loaded in tankers)		0.00	NE	NE		NE	NE	
iv. Refining / Storage	(e.g. PJ oil refined)		0.00	0.00	0.00				
v. Distribution of oil products	(e.g. PJ oil refined)		0.00	0.00	0.00				
vi. Other			0.00	0.00	0.00				
1. B. 2. b. Natural Gas							0.00	0.00	
Exploration				NO	NO		NO	NO	
i. Production ⁽⁴⁾ / Processing	(e.g. PJ gas produced)		0.00	NO	NO		NO	NO	
ii. Transmission	(e.g. PJ gas consumed)		0.00	0.00	0.00				
Distribution	(e.g. PJ gas consumed)			0.00	0.00				
iii. Other Leakage	(e.g. PJ gas consumed)			0.00	0.00		0.00	0.00	
at industrial plants and power stations				0.00	0.00				
in residential and commercial sectors				0.00	0.00				
1. B. 2. c. Venting ⁽⁵⁾							0.00	0.00	
i. Oil	(e.g. PJ oil produced)			0.00	0.00				
ii. Gas	(e.g. PJ gas produced)			0.00	0.00				
iii. Combined				0.00	0.00				
Flaring							0.00	0.00	0.00
i. Oil	(e.g. PJ gas consumption)		0.00	0.00	0.00	0.00			
ii. Gas	(e.g. PJ gas consumption)		0.00	0.00	0.00	0.00			
iii. Combined				0.00	0.00	0.00			
1.B.2.d. Other (please specify) ⁽⁶⁾	---						0.00	0.00	0.00
				0.00	0.00	0.00			

Additional information

Description	Value	Unit
Pipelines length (km)		
Number of oil wells		
Number of gas wells		
Gas throughput ^(a)		
Oil throughput ^(a)		
Other relevant information (specify) ---		

^(a) In the context of oil and gas production, throughput is a measure of the total production, such as barrels per day of oil, or cubic meters of gas per year. Specify the units of the reported value in the unit column. Take into account that these values should be consistent with the activity data reported under the production rows of the main table.

⁽¹⁾ Specify the activity data used and fill in the activity data description column, as given in the examples in brackets. Specify the unit of the activity data in the unit column. Use the document box to specify whether the fuel amount is based on the raw material production or on the saleable production. Note cases where more than one variable is used as activity data.

⁽²⁾ The unit of the implied emission factor will depend on the units of the activity data used, and is therefore not specified in this column. The unit of the implied emission factor for each activity will be kg/unit of activity data.

⁽³⁾ Use the category also to cover emissions from combined oil and gas production fields. Natural gas processing and distribution from these fields should be included under 1.B.2.b.ii and 1.B.2.b.iii, respectively.

⁽⁴⁾ If using default emission factors these categories will include emissions from production other than venting and flaring.

⁽⁵⁾ If using default emission factors, emissions from Venting and Flaring from all oil and gas production should be accounted for here. Parties using the IPCC software could report those emissions together, indicating so in the documentation box.

⁽⁶⁾ For example, fugitive CO₂ emissions from production of geothermal power could be reported here.

Documentation box:

TABLE 1.C SECTORAL BACKGROUND DATA FOR ENERGY
International Bunkers and Multilateral Operations
 (Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS			EMISSIONS		
	Consumption (TJ)	CO ₂ (t/TJ)	CH ₄ (kg/TJ)	N ₂ O (kg/TJ)	CO ₂ (Gg)	CH ₄ (Gg)	N ₂ O (Gg)
Marine Bunkers	0.00				0.00	0.00	0.00
Gasoline	0.00	NE	NE	NE	NE	NE	NE
Gas/Diesel Oil	0.00	NE	NE	NE	NE	NE	NE
Residual Fuel Oil	0.00	NE	NE	NE	NE	NE	NE
Lubricants	0.00	NE	NE	NE	NE	NE	NE
Coal	0.00	NE	NE	NE	NE	NE	NE
Other (please specify) <input type="text" value="..."/>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00			
Aviation Bunkers	0.00				0.00	0.00	0.00
Jet Kerosene	0.00	NE	NE	NE	NE	NE	NE
Gasoline	0.00	NE	NE	NE	NE	NE	NE
Multilateral Operations ⁽¹⁾							

Additional information

Fuel consumption	Allocation ^(a) (percent)	
	Domestic	International
Marine	0.00	0.00
Aviation	0.00	0.00

^(a) For calculating the allocation of fuel consumption, use the sums of fuel consumption by domestic navigation and aviation (Table 1.A(a)) and by international bunkers (Table 1.C).

⁽¹⁾ Parties may choose to report or not report the activity data and emission factors for multilateral operation consistent with the principle of confidentiality stated in the UNFCCC reporting guidelines on inventories. In any case, Parties should report the emissions from multilateral operations, where available, under the Memo Items section of the Summary tables and in the Sectoral report table for energy.

Note: In accordance with the IPCC Guidelines, international aviation and marine bunker fuel emissions from fuel sold to ships or aircraft engaged in international transport should be excluded from national totals and reported separately for informational purposes only.

Documentation box: Please explain how the consumption of international marine and aviation bunkers fuels was estimated and separated from the domestic consumption.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 1 of 2)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	HFCs ⁽¹⁾		PFCs ⁽¹⁾		SF ₆		NO _x	CO	NM VOC	SO ₂
				P	A	P	A	P	A				
	(Gg)			CO ₂ equivalent (Gg)				(Gg)					
Total Industrial Processes	3,339.33	0.04	0.69	0.00	0.00	0.00	0.00	0.00	0.00	1.76	11.81	43.67	4.27
A. Mineral Products	736.75	0.00	0.00							0.00	0.00	0.00	0.24
1. Cement Production	397.84												0.24
2. Lime Production	338.91												
3. Limestone and Dolomite Use	NE												
4. Soda Ash Production and Use	0.00												
5. Asphalt Roofing	NE										NE	NE	
6. Road Paving with Asphalt	NE									NE	NE	NE	NE
7. Other (please specify) ...	0.00	0.00	0.00							0.00	0.00	0.00	0.00
B. Chemical Industry	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00
1. Ammonia Production	NE	NE								NE	NE	NE	NE
2. Nitric Acid Production			0.69							1.38			
3. Adipic Acid Production			NE							NE	NE	NE	
4. Carbide Production	0.00	0.00									NE	NE	NE
5. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Metal Production	2,602.58	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	11.07	0.00	1.16
1. Iron and Steel Production	2,273.60	0.00								NE	NE	NE	NE
2. Ferroalloys Production	129.66	0.03								NE	NE	NE	NE
3. Aluminium Production	147.60	0.00					0.00			0.18	11.07	NE	1.16
4. SF ₆ Used in Aluminium and Magnesium Foundries									0.00				
5. Other (please specify) ...	51.72	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	51.72	0.01											

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines. A = Actual emissions based on Tier 2 approach of the IPCC Guidelines. This only applies in sectors where methods exist for both tiers.

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES
(Sheet 2 of 2)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	HFCs ⁽¹⁾		PFCs ⁽¹⁾		SF ₆		NO _x	CO	NM VOC	SO ₂
				P	A	P	A	P	A				
	(Gg)			CO ₂ equivalent (Gg)						(Gg)			
D. Other Production	0.00									0.20	0.74	43.67	2.87
1. Pulp and Paper										0.20	0.74	0.65	2.87
2. Food and Drink ⁽²⁾	0.00											43.02	
E. Production of Halocarbons and SF₆					0.00		0.00		0.00				
1. By-product Emissions					0.00		0.00		0.00				
Production of HCFC-22					0.00								
Other					0.00		0.00		0.00				
2. Fugitive Emissions					0.00		0.00		0.00				
3. Other (please specify) ...					0.00		0.00		0.00				
F. Consumption of Halocarbons and SF₆				0.00	0.00	0.00	0.00	0.00	0.00				
1. Refrigeration and Air Conditioning Equipment				NE	0.00	NE	0.00	NE	0.00				
2. Foam Blowing				NE	0.00	NE	0.00	NE	0.00				
3. Fire Extinguishers				NE	0.00	NE	0.00	NE	0.00				
4. Aerosols/ Metered Dose Inhalers				NE	0.00	NE	0.00	NE	0.00				
5. Solvents				NE	0.00	NE	0.00	NE	0.00				
6. Semiconductor Manufacture				NE	0.00	NE	0.00	NE	0.00				
7. Electrical Equipment				NE		NE		NE	0.00				
8. Other (please specify) ...				0.00	0.00	0.00	0.00	0.00	0.00				
G. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00												

⁽²⁾ CO₂ from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO₂ emissions of non-biogenic origin should be reported.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

BOSNIA AND HERZEGOVINA

Emissions of CO₂, CH₄ and N₂O

1990

(Sheet 1 of 2)

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS ⁽²⁾					
	Production/Consumption quantity		CO ₂	CH ₄	N ₂ O	CO ₂		CH ₄		N ₂ O	
	Description ⁽¹⁾	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	(²)	(Gg)	(²)	(Gg)	(²)
A. Mineral Products						736.75		0.00		0.00	
1. Cement Production	Portland Cement Production	798.07	0.50			397.84					
2. Lime Production	Lime Production	429.00	0.79			338.91					
3. Limestone and Dolomite Use	NE	0.00	NE			NE					
4. Soda Ash						0.00					
Soda Ash Production	NE	0.00	NE			NE					
Soda Ash Use	NE	NE	NE			NE					
5. Asphalt Roofing	NE	0.00	NE			NE					
6. Road Paving with Asphalt	NE	0.00	NE			NE					
7. Other (please specify) ---						0.00		0.00		0.00	
Glass Production	NE	NE	NE			NE					
		0.00	NE	NE	NE	NE		NE		NE	
B. Chemical Industry						0.00		0.00		0.69	
1. Ammonia Production ⁽³⁾	NE	0.00	NE	NE	NE	NE		NE		NE	
2. Nitric Acid Production	Nitric Acid Production	115.00			0.01					0.69	
3. Adipic Acid Production	NE	0.00			NE					NE	
4. Carbide Production	NE	NE	NE	NE		0.00		0.00			
Silicon Carbide	NE	0.00	NE	NE	NE	NE		NE			
Calcium Carbide	NE	NE	NE	NE		NE		NE			
5. Other (please specify) ---						0.00		0.00		0.00	
Carbon Black	NE	NE		NE				NE			
Ethylene	NE	NE	NE	NE	NE	NE		NE		NE	
Dichloroethylene	NE	NE		NE				NE			
Styrene	NE	NE		NE				NE			
Methanol	NE	NE		NE				NE			
		0.00	0.00	0.00	0.00						

⁽¹⁾ Where the IPCC Guidelines provide options for activity data, e.g. cement or clinker for estimating the emissions from Cement Production, specify the activity data used (as shown in the example in brackets) in order to make the choice of emission factor more transparent and to facilitate comparisons of implied emission factors.

⁽²⁾ Enter cases in which the final emissions are reduced with the quantities of emission recovery, oxidation, destruction, transformation. Adjusted emissions are reported and the quantitative information on recovery, oxidation, destruction, and transformation should be given in the additional columns provided.

⁽³⁾ To avoid double counting make offsetting deductions from fuel consumption (e.g. natural gas) in Ammonia Production, first for feedstock use of the fuel, and then to a sequestering use of the feedstock.

TABLE 2(I).A-G SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES

BOSNIA AND HERZEGOVINA

Emissions of CO₂, CH₄ and N₂O

1990

(Sheet 2 of 2)

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS ⁽²⁾					
	Production/Consumption Quantity		CO ₂	CH ₄	N ₂ O	CO ₂		CH ₄		N ₂ O	
	Description ⁽¹⁾	(kt)	(t/t)	(t/t)	(t/t)	(Gg)	(²)	(Gg)	(²)	(Gg)	(²)
C. Metal Production⁽⁴⁾						2,602.58		0.04		0.00	
1. Iron and Steel Production		0.00	0.00			2,273.60		0.00			
Steel	Steel Production	1,421.00	1.60			2,273.60					
Pig Iron		0.00	NE	NE		NE		NE			
Sinter		0.00	NE	NE		NE		NE			
Coke	Coke Production	0.00	0.00	0.00							
Other (please specify) ...						0.00		0.00			
		0.00	0.00	0.00	0.00						
2. Ferroalloys Production	Ferrosilicon (75% Si)	33.24	3.90	0.00		129.66		0.03			
3. Aluminium Production	Aluminium Production	82.00	1.80	0.00		147.60					
4. SF ₆ Used in Aluminium and Magnesium Foundries											
5. Other (please specify) ...						51.72		0.01		0.00	
		12.03	4.30	0.00	0.00	51.72		0.01			
D. Other Production						0.00					
1. Pulp and Paper											
2. Food and Drink			0.00								
G. Other (please specify) ...						0.00		0.00		0.00	
		0.00	0.00	0.00	0.00	0.00					

⁽⁴⁾ More specific information (e.g. data on virgin and recycled steel production) could be provided in the documentation box.

Note: In case of confidentiality of the activity data information, the entries should provide aggregate figures but there should be a note in the documentation box indicating this.

Documentation box:

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF₆
(Sheet 1 of 2)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mcc	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs ⁽¹⁾	CF ₄	C ₂ F ₆	C ₃ F ₈	C ₄ F ₁₀	e-C ₄ F ₈	C ₃ F ₁₂	C ₆ F ₁₄	Total PFCs ⁽¹⁾	SF ₆
	(t) ⁽²⁾																						
Total Actual Emissions of Halocarbons (by chemical) and SF₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
C. Metal Production															0.00	0.00	NE	NE	NE	NE	NE		0.00
Aluminium Production															0.00	0.00	NE	NE	NE	NE	NE		
SF ₆ Used in Aluminium Foundries																							0.00
SF ₆ Used in Magnesium Foundries																							0.00
E. Production of Halocarbons and SF₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1. By-product Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Production of HCFC-22	0.00																						
Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
2. Fugitive Emissions	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
3. Other (please specify) ***	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
F(a). Consumption of Halocarbons and SF₆ (actual emissions - Tier 2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1. Refrigeration and Air Conditioning Equipment	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
2. Foam Blowing	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
3. Fire Extinguishers	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
4. Aerosols/Metered Dose Inhalers	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
5. Solvents	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
6. Semiconductor Manufacture	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE		NE
7. Electrical Equipment																							
8. Other (please specify) ***	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
G. Other (please specify) ***	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00

⁽¹⁾ Although shaded, the columns with HFCs and PFCs totals in sheet 1 are kept for consistency with sheet 2 of the table. In accordance with the UNFCCC reporting guidelines for HFCs and PFCs "emissions should be reported for each relevant chemical". However, if it is not possible to report values for each chemical (i.e. mixtures, confidential data, lack of disaggregation), this column could be used for reporting aggregated values and appropriate notation keys should be entered in the cells for the individual chemicals.

⁽²⁾ Note that the units used in this table differ from those used in the rest of the Sectoral report tables, i.e. [t] instead of [Gg].

Note: Where information is confidential the entries should provide aggregate figures but there should be a note indicating this in the relevant documentation boxes of the Sectoral background data tables or as a comment to the corresponding cell. Gases with GWP not yet agreed upon by the COP, should be reported in Table 9 (Completeness), sheet 2.

TABLE 2(II) SECTORAL REPORT FOR INDUSTRIAL PROCESSES - EMISSIONS OF HFCs, PFCs AND SF₆
(Sheet 2 of 2)

BOSNIA AND HERZEGOVINA

1990
Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFC-23	HFC-32	HFC-41	HFC-43-10mcc	HFC-125	HFC-134	HFC-134a	HFC-152a	HFC-143	HFC-143a	HFC-227ea	HFC-236fa	HFC-245ca	Total HFCs	CF ₄	C ₂ F ₆	C ₃ F ₈	C ₄ F ₁₀	c-C ₄ F ₈	C ₃ F ₁₂	C ₆ F ₁₄	Total PFCs	SF ₆
	(t) ⁽²⁾																						
F(p). Total Potential Emissions of Halocarbons (by chemical) and SF₆⁽³⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Production ⁽⁴⁾	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Import:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
In bulk	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
In products ⁽⁵⁾	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Export:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
In bulk	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
In products ⁽⁵⁾	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Destroyed amount	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
GWP values used	11700	650	150	1300	2800	1000	1300	140	300	3800	2900	6300	560		6500	9200	7000	7000	8700	7500	7400		23900
Total Actual Emissions⁽⁶⁾ (Gg CO₂ eq.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Metal Production															0.00	0.00							0.00
E. Production of Halocarbons and SF ₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F(a). Consumption of Halocarbons and SF ₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ratio of Potential/Actual Emissions from Consumption of Halocarbons and SF₆																							
Actual emissions - F(a) (Gg CO ₂ eq.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potential emissions - F(p) (7) (Gg CO ₂ eq.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potential/Actual emissions ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

⁽³⁾ Potential emissions of each chemical of halocarbons and SF₆ estimated using Tier 1a or Tier 1b of the IPCC Guidelines (Volume 3. Reference Manual, pp. 2.47-2.50). When potential emissions estimates are available in a disaggregated manner corresponding to the subsectors for actual emissions defined on sheet 1 of this table, these should be reported in an annex to sheet 2, using the format of sheet 1, sector F(a). Use Summary 3 of this common reporting format to indicate whether Tier 1a or Tier 1b was used.

⁽⁴⁾ Production refers to production of new chemicals. Recycled substances could be included here, but it should be ensured that double counting of emissions is avoided. Relevant explanations should be provided as a comment to the corresponding cell.

⁽⁵⁾ Relevant just for Tier 1b.

⁽⁶⁾ Sums of the actual emissions of each chemical of halocarbons and SF₆ from the source categories given in sheet 1 of the table multiplied by the corresponding GWP values.

⁽⁷⁾ Potential emissions of each chemical of halocarbons and SF₆ taken from row F(p) multiplied by the corresponding GWP values.

Note: As stated in the revised UNFCCC guidelines, Parties should report actual emissions of HFCs, PFCs and SF₆, where data are available, providing disaggregated data by chemical and source category in units of mass and in CO₂ equivalents. Parties reporting actual emissions should also report potential emissions for the sources where the concept of potential emissions applies, for reasons of transparency and comparability.

TABLE 2(II). C, E SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Metal Production; Production of Halocarbons and SF₆
 (Sheet 1 of 1)

BOSNIA AND HERZEGOVINA
 1990
 Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS ⁽²⁾	EMISSIONS ⁽²⁾	
	Description ⁽¹⁾	(t)	(kg/t)	(t)	⁽³⁾
C. PFCs and SF₆ from Metal Production					
PFCs from Aluminium Production					
CF ₄			0.00		
C ₂ F ₆			0.00		
SF ₆				0.00	
Aluminium Foundries	<i>(SF₆ consumption)</i>		0.00		
Magnesium Foundries			0.00		
E. Production of Halocarbons and SF₆					
1. By-product Emissions					
Production of HCFC-22					
HFC-23			0.00		
Other <i>(specify chemical)</i> ...					
			0.00		
2. Fugitive Emissions					
HFCs <i>(specify chemical)</i> ...					
			0.00		
PFCs <i>(specify chemical)</i> ...					
			0.00		
SF ₆			0.00		
3. Other <i>(please specify)</i> ...					
			0.00		

⁽¹⁾ Specify the activity data used as shown in the examples within brackets. Where applying Tier 1b (for C), Tier 2 (for E) and country specific methods, specify any other relevant activity data used in the documentation box below.

⁽²⁾ Emissions and implied emission factors are after recovery.

⁽³⁾ Enter cases in which the final emissions are reported after subtracting the quantities of emission recovery, oxidation, destruction, transformation. Enter these quantities in the specified column and use the documentation box for further explanations.

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note in the documentation box indicating this.

Documentation box:

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF₆
 (Sheet 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA <i>Amount of fluid</i>			IMPLIED EMISSION FACTORS			EMISSIONS		
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning ⁽¹⁾	Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	(t)			(% per annum)			(t)		
1 Refrigeration									
Air Conditioning Equipment									
Domestic Refrigeration (<i>Specify chemical</i>) ⁽²⁾ <input type="text" value="---"/>									
Commercial Refrigeration <input type="text" value="---"/>									
Transport Refrigeration <input type="text" value="---"/>									
Industrial Refrigeration <input type="text" value="---"/>									
Stationary Air-Conditioning <input type="text" value="---"/>									
Mobile Air-Conditioning <input type="text" value="---"/>									
2 Foam Blowing									
Hard Foam <input type="text" value="---"/>									
Soft Foam <input type="text" value="---"/>									

⁽¹⁾ Parties should use the documentation box to provide information on the amount of the chemical recovered (recovery efficiency) and other relevant information used in the emission estimation.

⁽²⁾ Please click on the button to specify the chemical consumed, as given in the example. If needed, new rows could be added for reporting the disaggregated chemicals from a source by clicking on the corresponding button.

Note: Table 2.(II).F provides for reporting of the activity data and emission factors used to calculate actual emissions from consumption of halocarbons and SF₆ using the "bottom-up approach" (based on the total stock of equipment and estimated emission rates from this equipment). Some Parties may prefer to estimate their actual emissions following the alternative "top-down approach" (based on annual sales of equipment and/or gas). These Parties should provide the activity data used in the current format and any other relevant information in the documentation box at the end of Table2(II)Fs2. Data these Parties should provide includes (1) the amount of fluid used to fill new products, (2) the amount of fluid used to service existing products, (3) the amount of fluid originally used to fill retiring products (the total nameplate capacity of retiring products), (4) the product lifetime, and (5) the growth rate of product sales, if this has been used to calculate the amount of fluid originally used to fill retiring products. Alternatively, Parties may provide alternative formats with equivalent information. These formats may be considered for future versions of the common reporting format after the trial period.

TABLE 2(II).F SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES
Consumption of Halocarbons and SF₆
 (Sheet 2 of 2)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTORS			EMISSIONS		
	<i>Amount of fluid</i>			Product manufacturing factor	Product life factor	Disposal loss factor	From manufacturing	From stocks	From disposal
	Filled in new manufactured products	In operating systems (average annual stocks)	Remained in products at decommissioning ⁽¹⁾						
(t)			(% per annum)			(t)			
3 Fire Extinguishers									
4 Aerosols									
Metered Dose Inhalers									
Other									
5 Solvents									
6 Semiconductors									
7 Electric Equipment									
8 Other (please specify)									

Note: Where the activity data are confidential, the entries should provide aggregate figures, but there should be a note indicating this and explanations in the documentation box.

Documentation box:

TABLE 3 SECTORAL REPORT FOR SOLVENT AND OTHER PRODUCT USE BOSNIA AND HERZEGOVINA
(Sheet 1 of 1)

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	N ₂ O	NM VOC
	(Gg)		
Total Solvent and Other Product Use	0.00	0.00	0.00
A. Paint Application	NE	NE	NE
B. Degreasing and Dry Cleaning	NE	NE	NE
C. Chemical Products, Manufacture and Processing			NE
D. Other (please specify) <input type="text" value="..."/>	0.00	0.00	0.00
<i>(Use of N₂O for Anaesthesia)</i>	NE	NE	NE
<i>(N₂O from Fire Extinguishers)</i>	NE	NE	NE
<i>(N₂O from Aerosol Cans)</i>	NE	NE	NE
<i>(Other Use of N₂O)</i>	NE	NE	NE
	NE	NE	NE

Please account for the quantity of carbon released in the form of NMVOC in both the NMVOC and the CO₂ columns.

Note: The IPCC Guidelines do not provide methodologies for the calculation of emissions of N₂O from Solvent and Other Product Use. If reporting such data, Parties should provide additional information (activity data and emission factors) used to make these estimates in the documentation box to Table 3.A-D.

TABLE 3.A-D SECTORAL BACKGROUND DATA FOR SOLVENT AND OTHER PRODUCT USE BOSNIA AND HERZEGOVINA
(Sheet 1 of 1)

1990
Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS ⁽²⁾	
	Description	(kt)	CO ₂ (t/t)	N ₂ O (t/t)
A. Paint Application		NE	NE	NE
B. Degreasing and Dry Cleaning		NE	NE	NE
C. Chemical Products, Manufacture and Processing				
D. Other (please specify) ⁽¹⁾ <input type="text" value="..."/>				
<i>(Use of N₂O for Anaesthesia)</i>		NE	NE	NE
<i>(N₂O from Fire Extinguishers)</i>		NE	NE	NE
<i>(N₂O from Aerosol Cans)</i>		NE	NE	NE
<i>(Other Use of N₂O)</i>		NE	NE	NE
		NE		

⁽¹⁾ Some probable sources are provided in brackets. Complement the list with other relevant sources. Make sure that the order is the same as in Table 3.

⁽²⁾ The implied emission factors will not be calculated until the corresponding emission estimates are entered directly into Table 3.

Note: The table follows the format of the IPCC Sectoral Report for Solvent and Other Product Use, although some of the source categories are not relevant to the direct GHG emissions.

Documentation box:

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 1 of 2)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH ₄	N ₂ O	NO _x	CO	NM VOC
	(Gg)				
Total Agriculture	87.31	8.95	0.00	0.00	0.00
A. Enteric Fermentation	73.73				
1. Cattle	64.73				
Dairy Cattle	51.22				
Non-Dairy Cattle	13.51				
2. Buffalo	NE				
3. Sheep	NE				
4. Goats	NE				
5. Camels and Llamas	NO				
6. Horses	1.80				
7. Mules and Asses	NE				
8. Swine	0.61				
9. Poultry	NE				
10. Other (please specify) ...	6.59				
	6.59				
B. Manure Management	13.58	1.28			0.00
1. Cattle	9.95				
Dairy Cattle	7.90				
Non-Dairy Cattle	2.05				
2. Buffalo	NE				
3. Sheep	NE				
4. Goats	NE				
5. Camels and Llamas	NO				
6. Horses	0.13				
7. Mules and Asses	NE				
8. Swine	3.37				
9. Poultry	0.13				

TABLE 4 SECTORAL REPORT FOR AGRICULTURE
(Sheet 2 of 2)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH ₄	N ₂ O	NO _x	CO	NMVOC
	(Gg)				
B. Manure Management (continued)					
10. Anaerobic Lagoons		NE			NE
11. Liquid Systems		0.03			NE
12. Solid Storage and Dry Lot		1.13			NE
13. Other (please specify) ...	0.00	0.12			0.00
ostalo		0.12			
C. Rice Cultivation	0.00				0.00
1. Irrigated	0.00				NE
2. Rainfed	0.00				NE
3. Deep Water	0.00				NE
4. Other (please specify) ...	0.00				0.00
D. Agricultural Soils ⁽¹⁾	0.00	7.67			0.00
1. Direct Soil Emissions	NE	7.67			
2. Animal Production ⁽²⁾	NE	0.00			
3. Indirect Emissions	NE	0.00			
4. Other (please specify) ...	0.00	0.00			0.00
E. Prescribed Burning of Savannas	0.00	0.00	NE	NE	NE
F. Field Burning of Agricultural Residues	0.00	0.00	0.00	0.00	0.00
1. Cereals	0.00	0.00	NE	NE	NE
2. Pulse	0.00	0.00	NE	NE	NE
3. Tuber and Root	0.00	0.00	NE	NE	NE
4. Sugar Cane	NO	NO	NE	NE	NE
5. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00
G. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00

⁽¹⁾ See footnote 4 to Summary 1.A of this common reporting format. Parties which choose to report CO₂ emissions and removals from agricultural soils under 4.D. Agricultural Soils category of the sector Agriculture should indicate the amount [Gg] of these emissions or removals in the documentation box to Table 4.D. Additional information (activity data, implied emissions factors) should also be provided using the relevant documentation box to Table 4.D. This table is not modified for reporting the CO₂ emissions and removals for the sake of consistency with the IPCC tables (i.e. IPCC Sectoral Report for Agriculture).

⁽²⁾ Only emissions of Pasture, Range and Paddock are to be reported under "Agricultural Soils". The rest of the emissions from animal production are reported under "Manure Management".
Note: The IPCC Guidelines do not provide methodologies for the calculation of CH₄ emissions, CH₄ and N₂O removals from agricultural soils, or CO₂ emissions from savanna burning or agricultural residues burning. If you have reported such data, you should provide additional information (activity data and emission factors) used to make these estimates using the relevant documentation boxes of the Sectoral background data tables.

TABLE 4.A SECTORAL BACKGROUND DATA FOR AGRICULTURE

**Enteric Fermentation
(Sheet 1 of 1)**

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA ⁽¹⁾ AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTORS ⁽⁴⁾
	Population size ⁽²⁾ (1000 head)	Average daily feed intake (MJ/day)	CH ₄ conversion (%)	CH ₄ (kg CH ₄ /head/yr)
1. Cattle	0			0.00
Dairy Cattle ⁽³⁾	632	NE	NE	81.00
Non-Dairy Cattle	241	NE	NE	56.00
2. Buffalo	0	NE	NE	NE
3. Sheep	0	NE	NE	NE
4. Goats	0	NE	NE	NE
5. Camels and Llamas	0	NO	NO	NO
6. Horses	100	NE	NE	18.04
7. Mules and Asses	0	NE	NE	NE
8. Swine	614	NE	NE	0.99
9. Poultry	0	NE	NE	NE
10. Other (please specify) ...				
				0.00

Additional information (for Tier 2)^(a)

Disaggregated list of animals ^(b)	Dairy Cattle	Non-Dairy Cattle	Other (specify) ...	
Indicators:				
Weight	(kg)			
Feeding situation ^(c)				
Milk yield	(kg/day)			
Work	(hrs/day)			
Pregnant	(%)			
Digestibility of feed	(%)			

^(a) Compare to Tables A-1 and A-2 of the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.31-4.34). These data are relevant if Parties do not have data on average feed intake.

^(b) Disaggregate to the split actually used. Add columns to the table if necessary.

^(c) Specify feeding situation as pasture, stall fed, confined, open range, etc.

⁽¹⁾ In the documentation boxes to all Sectoral background data tables for Agriculture, Parties should provide information on whether the activity data is one year or a 3-year average.

⁽²⁾ Parties are encouraged to provide detailed livestock population data by animal type and region in a separate table below the documentation box. This consistent set of animal population statistics should be used to estimate CH₄ emissions from enteric fermentation, CH₄ and N₂O from manure management, N₂O direct emissions from soil and N₂O emissions associated with manure production, as well as emissions from the use of manure as fuel, and sewage-related emissions reported in the waste sector.

⁽³⁾ Including data on dairy heifers, if available.

⁽⁴⁾ The implied emission factors will not be calculated until the corresponding emission estimates are entered directly into Table 4.

Documentation box:

TABLE 4.B(a) SECTORAL BACKGROUND DATA FOR AGRICULTURE
CH₄ Emissions from Manure Management
 (Sheet 1 of 1)

BOSNIA AND HERZEGOVINA
 1990
 Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS CH ₄ ⁽⁵⁾ (kg CH ₄ /head/yr)	
	Population size ⁽¹⁾ (1000 head)	Allocation by climate region ⁽²⁾			Typical animal mass (kg)	VS ⁽³⁾ daily excretion (kg dm/head/yr)		CH ₄ producing potential (Bo) ⁽³⁾ (CH ₄ m ³ /kg VS)
		Cool	Temperate	Warm				
		%						
1. Cattle	0	100.0		NE	NE	NE	0.00	
Dairy Cattle ⁽⁴⁾	632	100.0		NE	NE	NE	12.49	
Non-Dairy Cattle	241	100.0		NE	NE	NE	8.50	
2. Buffalo	0	100.0		NE	NE	NE	NE	
3. Sheep	0	100.0		NE	NE	NE	NE	
4. Goats	0	100.0		NE	NE	NE	NE	
5. Camels and Llamas	0	NO		NO	NO	NO	NO	
6. Horses	100	100.0		NE	NE	NE	1.30	
7. Mules and Asses	0	100.0		NE	NE	NE	NE	
8. Swine	614	100.0		NE	NE	NE	5.49	
9. Poultry	8,544	100.0		NE	NE	NE	0.02	

⁽¹⁾ See footnote 1 to Table 4.A of this common reporting format.

⁽²⁾ Climate regions are defined in terms of annual average temperature as follows: Cool=less than 15°C; Temperate=15°C to 25°C inclusive; and Warm=greater than 25°C (see Table 4.2 of the IPCC Guidelines (Volume 3, Reference Manual, p. 4.8)).

⁽³⁾ Provide average values, where original calculations were made at a more disaggregated level of these livestock categories

⁽⁴⁾ Including data on dairy heifers, if available.

⁽⁵⁾ The implied emission factors will not be calculated until the corresponding emission estimates are entered directly into Table 4.

Documentation Box:

--

Additional information

Animal category ^(a)	Indicator	Climate region	Animal waste management system					
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range paddock	Other
Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF ^(b)	Cool						
		Temperate						
		Warm						
Non-Dairy Cattle	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF ^(b)	Cool						
		Temperate						
		Warm						
Swine	Allocation(%)	Cool						
		Temperate						
		Warm						
	MCF ^(b)	Cool						
		Temperate						
		Warm						

^(a) Copy the above table as many times as necessary.

^(b) MCF = Methane Conversion Factor (IPCC Guidelines, (Volume 3, Reference Manual, p. 4.9)). In the case of use of other climate region categorization, please replace the entries in the cells with the climate regions for which the MCFs are specified.

TABLE 4.B(b) SECTORAL BACKGROUND DATA FOR AGRICULTURE
N₂O Emissions from Manure Management
(Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION								IMPLIED EMISSION FACTORS ⁽³⁾	
	Population size ⁽¹⁾ (1000s)	Nitrogen excretion (kg N/head/yr)	Nitrogen excretion per animal waste management system (kg N/yr)						Emission factor per animal waste management system	
			Anaerobic lagoon	Liquid system	Daily spread	Solid storage and dry lot	Pasture range and paddock	Other	(kg N ₂ O-N/kg N)	
Non-Dairy Cattle	632								Anaerobic lagoon	NE
Dairy Cattle	241								Liquid system	0.000
Sheep	0								Solid storage and dry lot	0.000
Swine	614								Other	0.000
Poultry	8,544									
Other (please specify) ...										
Total per AWMS⁽²⁾			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

⁽¹⁾ See footnote 1 to Table 4.A of this common reporting format.

⁽²⁾ AWMS - Animal Waste Management System.

⁽³⁾ The implied emission factor will not be calculated until the emissions are entered directly into Table 4.

Documentation box:

TABLE 4.C SECTORAL BACKGROUND DATA FOR AGRICULTURE

BOSNIA AND HERZEGOVINA

Rice Cultivation

1990

(Sheet 1 of 1)

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR ⁽¹⁾	EMISSIONS
	Harvested area ⁽²⁾ (10 ⁹ m ² /yr)	Organic amendments added ⁽³⁾ :		CH ₄ (g/m ²)	CH ₄ (Gg)
		type	(t/ha)		
1. Irrigated					0.00
Continuously Flooded				0.00	
Intermittently Flooded	Single Aeration			0.00	
	Multiple Aeration			0.00	
2. Rainfed					0.00
Flood Prone				0.00	
Drought Prone				0.00	
3. Deep Water					0.00
Water Depth 50-100 cm				0.00	
Water Depth > 100 cm				0.00	
4. Other (please specify) ...					0.00
				0.00	
Upland Rice ⁽⁴⁾					
Total ⁽⁴⁾	0.00				

⁽¹⁾ The implied emission factor takes account of all relevant corrections for continuously flooded fields without organic amendment plus the correction for the organic amendments, if used, as well as of the effect of different soil characteristics, if taken into account, on methane emissions.

⁽²⁾ Harvested area is the cultivated area multiplied by the number of cropping seasons per year.

⁽³⁾ Specify dry weight or wet weight for organic amendments.

⁽⁴⁾ These rows are included to allow comparison with the international statistics. Upland rice emissions are assumed to be zero and are ignored in the emission calculations.

Documentation box:

When disaggregating by more than one region within a country, provide additional information in the documentation box.

Where available, provide activity data and scaling factors by soil type and rice cultivar.

TABLE 4.D SECTORAL BACKGROUND DATA FOR AGRICULTURE

Agricultural Soils⁽¹⁾

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		IMPLIED EMISSION FACTORS		EMISSIONS (Gg N ₂ O)
	Description	Value	Unit ⁽²⁾		
Direct Soil Emissions	N input to soils (kg N/yr)				7.67
Synthetic Fertilizers	Use of synthetic fertilizers (kg N/yr)		(kg N ₂ O-N/kg N)	0.000	6.390
Animal Wastes Applied to Soils	Nitrogen input from manure applied to soils (kg N/yr)		(kg N ₂ O-N/kg N)	0.000	1.280
N-fixing Crops	Dry pulses and soybeans produced (kg dry biomass/yr)		(kg N ₂ O-N/kg dry biomass)	0.000	
Crop Residue	Dry production of other crops (kg dry biomass/yr)		(kg N ₂ O-N/kg dry biomass)	0.000	
Cultivation of Histosols	Area of cultivated organic soils (ha)		(kg N ₂ O-N/ha)	0.000	
Animal Production	N excretion on pasture range and paddock (kg N/yr)		(kg N₂O-N/kg N)	0.000	
Indirect Emissions					0.00
Atmospheric Deposition	Volatized N (NH ₃ and NO _x) from fertilizers and animal wastes (kg N/yr)		(kg N ₂ O-N/kg N)	0.000	
Nitrogen Leaching and Run-off	N from fertilizers and animal wastes that is lost through leaching and run off (kg N/yr)		(kg N ₂ O-N/kg N)	0.000	
Other (please specify)	...				0.00
				0.000	

Additional information

Fraction ^(a)	Description	Value
Frac _{BURN}	Fraction of crop residue burned	
Frac _{FUEL}	Fraction of livestock N excretion in excrements burned for fuel	
Frac _{GASF}	Fraction of synthetic fertilizer N applied to soils that volatilizes as NH ₃ and NO _x	
Frac _{GASM}	Fraction of livestock N excretion that volatilizes as NH ₃ and NO _x	
Frac _{GRAZ}	Fraction of livestock N excreted and deposited onto soil during grazing	
Frac _{LEACH}	Fraction of N input to soils that is lost through leaching and runoff	
Frac _{NCRBF}	Fraction of N in non-N-fixing crop	
Frac _{NCRO}	Fraction of N in N-fixing crop	
Frac _R	Fraction of crop residue removed from the field as crop	

^(a) Use the fractions as specified in the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.92 - 4.113).

⁽¹⁾ See footnote 4 to Summary 1.A. of this common reporting format. Parties which choose to report CO₂ emissions and removals from agricultural soils under 4.D. Agricultural Soils category should indicate the amount [Gg] of these emissions or removals and relevant additional information (activity data, implied emissions factors) in the documentation box.

⁽²⁾ To convert from N₂O-N to N₂O emissions, multiply by 44/28.

Documentation box:

TABLE 4.E SECTORAL BACKGROUND DATA FOR AGRICULTURE
Prescribed Burning of Savannas
 (Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION					IMPLIED EMISSION FACTORS		EMISSIONS	
	Area of savanna burned (k ha/yr)	Average aboveground biomass density (t dm/ha)	Fraction of savanna burned	Biomass burned (Gg dm)	Nitrogen fraction in biomass	(kg/t dm)		(Gg)	
						CH ₄	N ₂ O	CH ₄	N ₂ O
(specify ecological zone) ---								0.00	0.00
	NO	NO	NO	NO	NO	NO	NO	NO	NO

Additional information

	Living	Dead
Fraction of aboveground biomass		
Fraction oxidized		
Carbon fraction		

Documentation box:

TABLE 4.F SECTORAL BACKGROUND DATA FOR AGRICULTURE

BOSNIA AND HERZEGOVINA

Field Burning of Agricultural Residues

1990

(Sheet 1 of 1)

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		EMISSIONS	
	Crop production	Residue/ Crop ratio	Dry matter fraction of residue	Fraction burned in fields	Biomass burned (Gg dm)	Nitrogen fraction in biomass of residues	CH ₄	N ₂ O	CH ₄	N ₂ O
	(t)						(kg/t dm)	(kg/t dm)	(Gg)	(Gg)
1. Cereals									0.00	0.00
Wheat	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Barley	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Maize	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Oats	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Rye	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Rice	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Other (please specify) ---									0.00	0.00
							0.00	0.00		
2. Pulse									0.00	0.00
Dry bean	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Peas	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Soybeans	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Other (please specify) ---									0.00	0.00
							0.00	0.00		
3 Tuber and Root									0.00	0.00
Potatoes	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Other (please specify) ---									0.00	0.00
							0.00	0.00		
4 Sugar Cane	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5 Other (please specify) ---									0.00	0.00
							0.00	0.00		

Documentation Box:

TABLE 5 SECTORAL REPORT FOR LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ emissions	CO ₂ removals	Net CO ₂ emissions/ removals	CH ₄	N ₂ O	NO _x	CO
	(Gg)						
Total Land-Use Change and Forestry	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Changes in Forest and Other Woody Biomass Stocks	0.00	0.00	0.00				
1. Tropical Forests	NO	NO	0.00				
2. Temperate Forests	NE	NE	0.00				
3. Boreal Forests	NE	NE	0.00				
4. Grasslands/Tundra	NE	NE	0.00				
5. Other (please specify) <input type="text" value="---"/>	0.00	0.00	0.00				
Harvested Wood ⁽¹⁾	NE	NE	0.00				
			0.00				
B. Forest and Grassland Conversion ⁽²⁾	0.00			0.00	0.00	0.00	0.00
1. Tropical Forests	NO			NO	NO	NO	NO
2. Temperate Forests	NE			NE	NE	NE	NE
3. Boreal Forests	NE			NE	NE	NE	NE
4. Grasslands/Tundra	NE			NE	NE	NE	NE
5. Other (please specify) <input type="text" value="---"/>	0.00			0.00	0.00	0.00	0.00
C. Abandonment of Managed Lands	0.00	0.00	0.00				
1. Tropical Forests	NO	NO	0.00				
2. Temperate Forests	NE	NE	0.00				
3. Boreal Forests	NE	NE	0.00				
4. Grasslands/Tundra	NE	NE	0.00				
5. Other (please specify) <input type="text" value="---"/>	0.00	0.00	0.00				
			0.00				
D. CO₂ Emissions and Removals from Soil	0.00	0.00	0.00				
Cultivation of Mineral Soils	NO	NO	0.00				
Cultivation of Organic Soils	NE	NE	0.00				
Liming of Agricultural Soils	NE	NE	0.00				
Forest Soils	NE	NE	0.00				
Other (please specify) ⁽³⁾ <input type="text" value="---"/>	0.00	0.00	0.00				
			0.00				
E. Other (please specify) <input type="text" value="---"/>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00				

⁽¹⁾ Following the IPCC Guidelines, the harvested wood should be reported under Changes in Forest and Other Woody Biomass Stocks (Volume 3. Reference Manual, p.5.17).

⁽²⁾ Include only the emissions of CO₂ from Forest and Grassland Conversion. Associated removals should be reported under section D.

⁽³⁾ Include emissions from soils not reported under sections A, B and C.

Note: See footnote 4 to Summary 1.A of this common reporting format.

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

BOSNIA AND HERZEGOVINA

1990

Changes in Forest and Other Woody Biomass Stocks

Submissio 2009

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES			ACTIVITY DATA		IMPLIED EMISSION FACTORS	ESTIMATES
			Area of forest/biomass stocks	Average annual growth rate	Implied carbon uptake factor	Carbon uptake increment
			(kha)	(t dm/ha)	(t C/ha)	(Gg C)
Tropical	Plantations	<i>Acacia spp.</i>	NO	NO	NO	NO
		<i>Eucalyptus spp.</i>	NO	NO	NO	NO
		<i>Tectona grandis</i>	NO	NO	NO	NO
		<i>Pinus spp</i>	NO	NO	NO	NO
		<i>Pinus caribaea</i>	NO	NO	NO	NO
		Mixed Hardwoods	NO	NO	NO	NO
		Mixed Fast-Growing Hardwoods	NO	NO	NO	NO
	Other Forests	Moist	NO	NO	NO	NO
		Seasonal	NO	NO	NO	NO
		Dry	NO	NO	NO	NO
Other (<i>specify</i>)	---	NO	NO	NO	NO	
					0.00	
Temperate	Plantations		NE	NE	NE	NE
					0.00	
	Commercial	Evergreen	NE	NE	NE	NE
		Deciduous	NE	NE	NE	NE
Other (<i>specify</i>)	---	NE	NE	NE	NE	
					0.00	
Boreal						0.00
			Number of trees	Annual growth rate	Carbon uptake factor	Carbon uptake increment
			(1000s of trees)	(kt dm/1000 trees)	(t C/tree)	(Gg C)
Non-Forest Trees (<i>specify type</i>)			---			0.00
			NE	NE	NE	NE
Total annual growth increment (Gg C)						0.00
Gg CO ₂						0.00

	Amount of biomass removed (kt dm)		Carbon emission factor (t C/t dm)	Carbon release (Gg C)
Total biomass removed in Commercial Harvest	NE	NE	NE	NE
Traditional Fuelwood Consumed	NE	NE	NE	NE
Total Other Wood Use	NE	NE	NE	NE
Total Biomass Consumption from Stocks ⁽¹⁾ (Gg C)				0.00
Other Changes in Carbon Stocks ⁽²⁾ (Gg C)				NE
Gg CO ₂				0.00

Net annual carbon uptake (+) or release (-) (Gg C)				0.00
Net CO ₂ emissions (-) or removals (+) (Gg CO ₂)				0.00

⁽¹⁾ Make sure that the quantity of biomass burned off-site is subtracted from this total.

⁽²⁾ The net annual carbon uptake/release is determined by comparing the annual biomass growth versus annual harvest, including the decay of forest products and slash left during harvest. The IPCC Guidelines recommend default assumption that all carbon removed in wood and other biomass from forests is oxidized in the year of removal. The emissions from decay could be included under Other Changes in Carbon Stocks.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology.

Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY
Forest and Grassland Conversion
 (Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION							IMPLIED EMISSION FACTORS					EMISSIONS					
		On and off site burning				Decay of above-ground biomass ⁽¹⁾			Burning			Decay	Burning			Decay			
		Area converted annually	Annual net loss of biomass	Quantity of biomass burned		Average area converted	Average annual net loss of biomass	Average quantity of biomass left to decay	On site				Off site	On site			Off site		
				On site	Off site				CO ₂	CH ₄	N ₂ O	CO ₂		CH ₄	N ₂ O	CO ₂			
		(kha)	(kt dm)	(kt dm)	(kt dm)	(kha)	(t dm/ha)	(kt dm)	(t/ha)					(Gg)					
Tropical	Wet/Very Moist	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Moist, short dry season	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Moist, long dry season	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Dry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Montane Moist	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Montane Dry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tropical Savanna/Grasslands		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Temperate	Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Broadleaf	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Mixed Broadleaf/Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Grasslands		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Boreal	Mixed Broadleaf/Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Forest-tundra	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Grasslands/Tundra		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Other (please specify)	---	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
									0.00	0.00	0.00	0.00	0.00						
Total														0.00	0.00	0.00	0.00	0.00	0.00

⁽¹⁾ Activity data are for default 10-year average. Specify the average decay time which is appropriate for the local conditions, if other than 10 years.

Emissions/Removals	On site	Off site
Immediate carbon release from burning	0.00	0.00
Total On site and Off site (Gg C)	0.00	
Delayed emissions from decay (Gg C)	0.00	
Total annual carbon release (Gg C)	0.00	
Total annual CO ₂ emissions (Gg CO ₂)	0.00	

Additional information

Fractions	On site	Off site
Fraction of biomass burned (average)		
Fraction which oxidizes during burning (average)		
Carbon fraction of aboveground biomass (average)		
Fraction left to decay (average)		
Nitrogen-carbon ratio		

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

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

BOSNIA AND HERZEGOVINA

Abandonment of Managed Lands

1990

(Sheet 1 of 1)

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA AND OTHER RELATED INFORMATION						IMPLIED EMISSION FACTORS		ESTIMATES	
		Total area abandoned and regrowing ⁽¹⁾		Annual rate of aboveground biomass growth		Carbon fraction of aboveground biomass		Rate of aboveground biomass carbon uptake		Annual carbon uptake in aboveground biomass	
		first 20 years (kha)	>20 years (kha)	first 20 years (t dm/ha)	>20 years (t dm/ha)	first 20 years	>20 years	first 20 years (t C/ha/yr)	>20 years (t C/ha/yr)	first 20 years (Gg C/yr)	>20 years (Gg C/yr)
Original natural ecosystems											
Tropical	Wet/Very Moist	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Moist, short dry season	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Moist, long dry season	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Dry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Montane Moist	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Montane Dry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tropical Savanna/Grasslands		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Temperate	Mixed Broadleaf/Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Broadleaf	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Grasslands		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Boreal	Mixed Broadleaf/Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Coniferous	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Forest-tundra	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Grasslands/Tundra		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Other (please specify) ...		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
								0.00	0.00		
										Total annual carbon uptake (Gg C)	0.00
										Total annual CO ₂ removal (Gg CO ₂)	0.00

⁽¹⁾ If lands are regenerating to grassland, then the default assumption is that no significant changes in above-ground biomass occur.

Note: Sectoral background data tables on Land-use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation box:

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND-USE CHANGE AND FORESTRY
CO₂ Emissions and Removals from Soil
 (Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	ESTIMATES
	Land area (Mha)	Average annual rate of soil carbon uptake/removal (Mg C/ha/yr)	Net change in soil carbon in mineral soils (Tg C over 20 yr)
Cultivation of Mineral Soils⁽¹⁾			0.00
High Activity Soils	NE	NE	NE
Low Activity Soils	NE	NE	NE
Sandy	NE	NE	NE
Volcanic	NO	NO	NO
Wetland (Aquic)	NE	NE	NE
Other (please specify) ---			0.00
		0.00	
	Land area (ha)	Annual loss rate (Mg C/ha/yr)	Carbon emissions from organic soils (Mg C/yr)
Cultivation of Organic Soils			0.00
Cool Temperate			0.00
Upland Crops	NE	NE	NE
Pasture/Forest	NE	NE	NE
Warm Temperate			0.00
Upland Crops	NE	NE	NE
Pasture/Forest	NE	NE	NE
Tropical			0.00
Upland Crops	NO	NO	NO
Pasture/Forest	NO	NO	NO
	Total annual amount of lime (Mg)	Carbon conversion factor	Carbon emissions from liming (Mg C)
Liming of Agricultural Soils			0.00
Limestone Ca(CO ₃)	NE	NE	NE
Dolomite CaMg(CO ₃) ₂	NE	NE	NE
Total annual net carbon emissions from agriculturally impacted soils (Gg C)			0.00
Total annual net CO ₂ emissions from agriculturally impacted soils (Gg CO ₂)			0.00

Additional information

Year	Climate ^(a)	land-use/ management system ^(a)	Soil type					
			High activity soils	Low activity soils	Sandy	Volcanic	Wetland (Aquic)	Organic soil
percent distribution (%)								
20 years prior	(e.g. tropical, dry)	(e.g. savanna)						
		(e.g. irrigated cropping)						
inventory year								

^(a) These should represent the major types of land management systems per climate regions presented in the country as well as ecosystem types which were either converted to agriculture (e.g., forest, savanna, grassland) or have been derived from previous agricultural land-use (e.g., abandoned lands, reforested lands). Systems should also reflect differences in soil carbon stocks that can be related to differences in management (IPCC Guidelines (Volume 2. Workbook, Table 5-9, p. 5.26, and Appendix (pp. 5-31 - 5.38)).

⁽¹⁾ The information to be reported under Cultivation of Mineral Soils aggregates data per soil type over all land-use/management systems. This refers to land area data and to the emission estimates and implied emissions factors accordingly.

Note: Sectoral background data tables on Land-Use Change and Forestry should be filled in only by Parties using the IPCC default methodology. Parties that use country specific methods and models should report information on them in a transparent manner, also providing suggestions for a possible sectoral background data table suitable for their calculation method.

Documentation Box:

TABLE 6 SECTORAL REPORT FOR WASTE
(Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	NO _x	CO	NM VOC	SO ₂
	(Gg)						
Total Waste	0.00	47.26	0.00	0.00	0.00	0.00	0.00
A. Solid Waste Disposal on Land	0.00	47.26		0.00	0.00	0.00	
1. Managed Waste Disposal on Land	0.00	0.00		NE	NE	NE	
2. Unmanaged Waste Disposal Sites	0.00	47.26		NE	NE	NE	
3. Other (please specify) ...	0.00	0.00		0.00	0.00	0.00	
B. Wastewater Handling		0.00	0.00	0.00	0.00	0.00	
1. Industrial Wastewater		0.00	NE	NE	NE	NE	
2. Domestic and Commercial Wastewater		0.00	0.00	NE	NE	NE	
3. Other (please specify) ...		0.00	0.00	0.00	0.00	0.00	
C. Waste Incineration	0.00	0.00	0.00	NO	NO	NO	NO
D. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00

⁽¹⁾ Note that CO₂ from Waste Disposal and Incineration source categories should only be included if it stems from non-biological or inorganic waste sources.

TABLE 6.A SECTORAL BACKGROUND DATA FOR WASTE

Solid Waste Disposal
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION				IMPLIED EMISSION FACTOR		EMISSIONS ⁽¹⁾	
	Annual MSW at the SWDS (Gg)	MCF	DOC degraded (Gg)	CH ₄ recovery ⁽²⁾ (Gg)	CH ₄ (t/t MSW)	CO ₂ (t/t MSW)	CH ₄ (Gg)	CO ₂ ⁽³⁾ (Gg)
1 Managed Waste Disposal on Land	0.00				0.00	0.00		
2 Unmanaged Waste Disposal Sites					0.00	0.00	47.26	0.00
- deep (>5 m)	0.00				0.00	0.00	47.26	
- shallow (<5 m)					0.00	0.00		
3 Other (please specify) ---							0.00	0.00
					0.00	0.00		

Additional information

Description	Value
Total population (1000s) ^(a)	
Urban population (1000s) ^(a)	
Waste generation rate (kg/capita/day)	
Fraction of MSW disposed to SWDS	
Fraction of DOC in MSW	
Fraction of wastes incinerated	
Fraction of wastes recycled	
CH ₄ oxidation factor (b)	
CH ₄ fraction in landfill gas	
Number of SWDS recovering CH ₄	
CH ₄ generation rate constant (k) ^(c)	
Time lag considered (yr) ^(c)	
Composition of landfilled waste (%)	
Paper and paperboard	
Food and garden waste	
Plastics	
Glass	
Textiles	
Other (specify) ---	
other - inert	
other - organic	

TABLE 6.C SECTORAL BACKGROUND DATA FOR WASTE

Waste Incineration
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA Amount of incinerated wastes (Gg)	IMPLIED EMISSION FACTOR			EMISSIONS		
		CO ₂ (kg/t waste)	CH ₄ (kg/t waste)	N ₂ O (kg/t waste)	CO ₂ ⁽³⁾ (Gg)	CH ₄ (Gg)	N ₂ O (Gg)
Waste Incineration (please specify) ---	0.00				0.00	0.00	0.00
(biogenic) ⁽³⁾		0.00	0.00	0.00			
(plastics and other non-biogenic waste) ⁽³⁾		0.00	0.00	0.00			
		0.00	0.00	0.00			

MSW - Municipal Solid Waste, SWDS - Solid Waste Disposal Site, MCF - Methane Correction Factor, DOC - Degradable Organic Carbon (IPCC Guidelines (Volume 3. Reference Manual, section 6.2.4)). MSW includes household waste, yard/garden waste, commercial/market waste and organic industrial solid waste. MSW should not include inorganic industrial waste such as construction or demolition materials.

⁽¹⁾ Actual emissions (after recovery).

⁽²⁾ CH₄ recovered and flared or utilized.

⁽³⁾ Under Waste Disposal, CO₂ emissions should be reported only when the disposed wastes are combusted at the disposal site which might constitute a management practice. CO₂ emissions from non-biogenic wastes are included in the totals, while the CO₂ emissions from biogenic wastes are not included in the totals.

Documentation box: All relevant information used in calculation should be provided in the additional information box and in the documentation box. Parties that use country specific models should note this with a brief rationale in the documentation box and fill the relevant cells only.
--

^(a) Specify whether total or urban population is used and the rationale for doing so.

^(b) See IPCC Guidelines (Volume 3. Reference Manual, p. 6.9).

^(c) For Parties using Tier 2 methods.

TABLE 6.B SECTORAL BACKGROUND DATA FOR WASTE
Wastewater Handling
 (Sheet 1 of 1)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND RELATED INFORMATION ⁽¹⁾				IMPLIED EMISSION FACTOR			EMISSIONS ⁽²⁾		
	Total organic product		CH ₄ recovered and/or flared		CH ₄		N ₂ O ⁽³⁾ (kg/kg DC)	CH ₄		N ₂ O ⁽³⁾ (Gg)
	Wastewater	Sludge	Wastewater	Sludge	Wastewater	Sludge		Wastewater	Sludge	
	(Gg DC ⁽¹⁾ /yr)		(Gg)		(kg/kg DC)	(kg/kg DC)	(Gg)	(Gg)	(Gg)	
Industrial Wastewater	0.00	NE	NE	NE	NE	NE	NE	NE	NE	NE
Domestic and Commercial Wastewater	0.00	NE	NE	NE	NE	NE	NE	NE	NE	NE
Other (please specify) ***								0.00	0.00	0.00

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION			IMPLIED EMISSION FACTOR		EMISSIONS
	Population ⁽⁴⁾ (1000s)	Protein consumption (protein in kg/person/yr)	N fraction (kg N/kg protein)	N ₂ O (kg N ₂ O-N/kg sewage N produced)		N ₂ O (Gg)
N ₂ O from human sewage ⁽³⁾	NE	NE	NE	NE	NE	NE

⁽¹⁾ DC - degradable organic component. DC indicators are COD (Chemical Oxygen Demand) for industrial wastewater and BOD (Biochemical Oxygen Demand) for Domestic/Commercial wastewater/sludge (IPCC Guidelines (Volume 3. Reference Manual, pp. 6.14, 6.18)).

⁽²⁾ Actual emissions (after recovery).

⁽³⁾ Parties using other methods for estimation of N₂O emissions from human sewage or wastewater treatment should provide corresponding information on methods, activity data and emission factors used in the documentation box. Use the table to provide aggregate data.

⁽⁴⁾ Specify whether total or urban population is used in the calculations and the rationale for doing so. Provide explanation in the documentation box.

Documentation box:

Additional information

	Domestic	Industrial
Total wastewater (m ³):	NE	NE
Treated wastewater (%):	NE	NE

Wastewater streams:	Wastewater output (m ³)	DC (kgCOD/m ³)
Industrial wastewater		
Non-ferrous	NE	NE
Fertilizers	NE	NE
Food and beverage	NE	NE
Paper and pulp	NE	NE
Organic chemicals	NE	NE
Other (specify) ***	NE	NE
DC (kg BOD/1000 person/yr)		
Domestic and Commercial		
Other ***		

Handling systems:	Industrial wastewater treated (%)	Ind. sludge treated (%)	Domestic wastewater treated (%)	Domestic sludge treated (%)
Aerobic	NE	NE	NE	NE
Anaerobic	NE	NE	NE	NE
Other (specify) ***	NE	NE	NE	NE

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)

BOSNIA AND HERZEGOVINA

(Sheet 1 of 3)

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ emissions	CO ₂ removals	CH ₄	N ₂ O	HFCs ⁽¹⁾		PFCs ⁽¹⁾		SF ₆		NO _x	CO	NMVOC	SO ₂
	(Gg)				CO ₂ equivalent (Gg)				(Gg)					
	P	A	P	A	P	A	P	A	P	A				
Total National Emissions and Removals	26,461.07	0.00	212.12	10.09	0.00	0.00	0.00	0.00	0.00	0.00	83.07	124.51	70.68	453.16
1. Energy	23,121.74		77.51	0.45							81.31	112.70	27.01	448.89
A. Fuel Combustion	23,051.10													
Reference Approach ⁽²⁾	23,051.10													
Sectoral Approach ⁽²⁾	23,121.74		1.46	0.45							81.31	112.70	27.01	448.89
1. Energy Industries	16,434.64		0.20	0.23							51.62	7.35	10.03	392.88
2. Manufacturing Industries and Construction	530.16		0.07	0.01							1.81	0.17	0.13	6.97
3. Transport	2,308.06		0.59	0.12							22.85	104.17	12.85	3.66
4. Other Sectors	3,848.88		0.60	0.09							5.03	1.01	4.00	45.38
5. Other	0.00		0.00	0.00							0.00	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	0.00		76.05	0.00							0.00	0.00	0.00	0.00
1. Solid Fuels	0.00		76.05	0.00							0.00	0.00	0.00	0.00
2. Oil and Natural Gas	0.00		0.00	0.00							0.00	0.00	0.00	0.00
2. Industrial Processes	3,339.33		0.04	0.69	0.00	0.00	0.00	0.00	0.00	0.00	1.76	11.81	43.67	4.27
A. Mineral Products	736.75		0.00	0.00							0.00	0.00	0.00	0.24
B. Chemical Industry	0.00		0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.00	0.00	0.00
C. Metal Production	2,602.58		0.04	0.00				0.00	0.00	0.00	0.18	11.07	0.00	1.16
D. Other Production ⁽³⁾	0.00										0.20	0.74	43.67	2.87
E. Production of Halocarbons and SF ₆						0.00		0.00		0.00				
F. Consumption of Halocarbons and SF ₆					0.00	0.00	0.00	0.00	0.00	0.00				
G. Other	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach. Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

Note: The numbering of footnotes to all tables containing more than one sheet continue to the next sheet. Common footnotes are given only once at the first point of reference.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)

BOSNIA AND HERZEGOVINA

(Sheet 2 of 3)

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ emissions	CO ₂ removals	CH ₄	N ₂ O	HFCs ⁽¹⁾		PFCs ⁽¹⁾		SF ₆		NO _x	CO	NMVOC	SO ₂
					P	A	P	A	P	A				
	(Gg)					CO ₂ equivalent (Gg)				(Gg)				
3. Solvent and Other Product Use	0.00			0.00							NE	NE	0.00	NE
4. Agriculture	0.00	0.00	87.31	8.95							0.00	0.00	0.00	0.00
A. Enteric Fermentation			73.73											
B. Manure Management			13.58	1.28									0.00	
C. Rice Cultivation			0.00										0.00	
D. Agricultural Soils	⁽⁴⁾	⁽⁴⁾	0.00	7.67									0.00	
E. Prescribed Burning of Savannas			0.00	0.00							NE	NE	NE	
F. Field Burning of Agricultural Residues			0.00	0.00							0.00	0.00	0.00	
G. Other			0.00	0.00							0.00	0.00	0.00	NE
5. Land-Use Change and Forestry	⁽⁵⁾ 0.00	⁽⁵⁾ 0.00	0.00	0.00							0.00	0.00	0.00	0.00
A. Changes in Forest and Other Woody Biomass Stocks	⁽⁵⁾ 0.00	⁽⁵⁾ 0.00												
B. Forest and Grassland Conversion	0.00		0.00	0.00							0.00	0.00	NE	
C. Abandonment of Managed Lands	⁽⁵⁾ 0.00	⁽⁵⁾ 0.00												
D. CO ₂ Emissions and Removals from Soil	⁽⁵⁾ 0.00	⁽⁵⁾ 0.00												
E. Other	⁽⁵⁾ 0.00	⁽⁵⁾ 0.00	0.00	0.00							0.00	0.00	NE	NE
6. Waste	0.00		47.26	0.00							0.00	0.00	0.00	0.00
A. Solid Waste Disposal on Land	⁽⁶⁾ 0.00		47.26									0.00	0.00	
B. Wastewater Handling			0.00	0.00							0.00	0.00	0.00	
C. Waste Incineration	⁽⁶⁾ 0.00		0.00	0.00							NO	NO	NO	NO
D. Other	0.00		0.00	0.00							0.00	0.00	0.00	0.00
7. Other (please specify) ---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

⁽⁴⁾ According to the IPCC Guidelines (Volume 3. Reference Manual, pp. 4.2, 4.87), CO₂ emissions from agricultural soils are to be included under Land-Use Change and Forestry (LUCF). At the same time, the Summary Report 7A (Volume 1. Reporting Instructions, Tables.27) allows for reporting CO₂ emissions or removals from agricultural soils, either in the Agriculture sector, under D. Agricultural Soils or in the Land-Use Change and Forestry sector under D. Emissions and Removals from Soil. Parties may choose either way to report emissions or removals from this source in the common reporting format, but the way they have chosen to report should be clearly indicated, by inserting explanatory comments to the corresponding cells of Summary 1.A and Summary 1.B. Double-counting of these emissions or removals should be avoided. Parties should include these emissions or removals consistently in Table8(a) (Recalculation - Recalculated data) and Table10 (Emission trends).

⁽⁵⁾ Please do not provide an estimate of both CO₂ emissions and CO₂ removals. "Net" emissions (emissions - removals) of CO₂ should be estimated and a single number placed in either the CO₂ emissions or CO₂ removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

⁽⁶⁾ Note that CO₂ from Waste Disposal and Incineration source categories should only be included if it stems from non-biogenic or inorganic waste streams.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A)

(Sheet 3 of 3)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ emissions	CO ₂ removals	CH ₄	N ₂ O	HFCs		PFCs		SF ₆		NO _x	CO	NMVOC	SO ₂
					P	A	P	A	P	A				
	(Gg)					CO ₂ equivalent (Gg)				(Gg)				
Memo Items: ⁽⁷⁾														
International Bunkers	0.00		0.00	0.00							0.00	0.00	0.00	0.00
Aviation	0.00		0.00	0.00							NE	NE	NE	NE
Marine	0.00		0.00	0.00							NE	NE	NE	NE
Multilateral Operations	0.00		0.00	0.00							NE	NE	NE	NE
CO₂ Emissions from Biomass	0.00													

⁽⁷⁾ Memo Items are not included in the national totals.

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B)

BOSNIA AND HERZEGOVINA

(Sheet 1 of 1)

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ emissions	CO ₂ removals	CH ₄	N ₂ O	HFCs ⁽¹⁾		PFCs ⁽¹⁾		SF ₆		NO _x	CO	NMVOC	SO ₂		
	(Gg)				CO ₂ equivalent (Gg)				(Gg)							
	P	A	P	A	P	A	P	A	P	A						
Total National Emissions and Removals	26,461.07	0.00	212.12	10.09	0.00	0.00	0.00	0.00	0.00	0.00	83.07	124.51	70.68	453.16		
1. Energy	23,121.74		77.51	0.45							81.31	112.70	27.01	448.89		
A. Fuel Combustion	Reference Approach ⁽²⁾															
	Sectoral Approach ⁽²⁾		1.46	0.45							81.31	112.70	27.01	448.89		
B. Fugitive Emissions from Fuels	0.00		76.05	0.00							0.00	0.00	0.00	0.00		
2. Industrial Processes	3,339.33		0.04	0.69	0.00	0.00	0.00	0.00	0.00	0.00	1.76	11.81	43.67	4.27		
3. Solvent and Other Product Use	0.00			0.00							NE	NE	0.00	NE		
4. Agriculture⁽³⁾	0.00	0.00	87.31	8.95							0.00	0.00	0.00	0.00		
5. Land-Use Change and Forestry⁽⁴⁾	0.00⁽⁴⁾	0.00	0.00	0.00							0.00	0.00	0.00	0.00		
6. Waste	0.00		47.26	0.00							0.00	0.00	0.00	0.00		
7. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Memo Items:																
International Bunkers	0.00		0.00	0.00							0.00	0.00	0.00	0.00		
Aviation	0.00		0.00	0.00							NE	NE	NE	NE		
Marine	0.00		0.00	0.00							NE	NE	NE	NE		
Multilateral Operations	0.00		0.00	0.00							NE	NE	NE	NE		
CO₂ Emissions from Biomass	0.00															

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

⁽¹⁾ The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in document box of Table 1.A(c). Where possible, the calculations using the Sectoral approach should be used for estimating national totals. Do not include the results of both the Reference approach and the Sectoral approach in national totals.

⁽³⁾ See footnote 4 to Summary 1.A.

⁽⁴⁾ Please do not provide an estimate of both CO₂ emissions and CO₂ removals. "Net" emissions (emissions - removals) of CO₂ should be estimated and a single number placed in either the CO₂ emissions or CO₂ removals column, as appropriate. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS

BOSNIA AND HERZEGOVINA

(Sheet 1 of 1)

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	Total
	CO ₂ equivalent (Gg)						
Total (Net Emissions)⁽¹⁾	26,461.07	4,454.52	3,127.90	0.00	0.00	0.00	34,043.49
1. Energy	23,121.74	1,627.71	139.50				24,888.95
A. Fuel Combustion (Sectoral Approach)	23,121.74	30.66	139.50				23,291.90
1. Energy Industries	16,434.64	4.20	71.30				16,510.14
2. Manufacturing Industries and Construction	530.16	1.47	3.10				534.73
3. Transport	2,308.06	12.39	37.20				2,357.65
4. Other Sectors	3,848.88	12.60	27.90				3,889.38
5. Other	0.00	0.00	0.00				0.00
B. Fugitive Emissions from Fuels	0.00	1,597.05	0.00				1,597.05
1. Solid Fuels	0.00	1,597.05	0.00				1,597.05
2. Oil and Natural Gas	0.00	0.00	0.00				0.00
2. Industrial Processes	3,339.33	0.84	213.90	0.00	0.00	0.00	3,554.07
A. Mineral Products	736.75	0.00	0.00				736.75
B. Chemical Industry	0.00	0.00	213.90	0.00	0.00	0.00	213.90
C. Metal Production	2,602.58	0.84	0.00		0.00	0.00	2,603.42
D. Other Production	0.00						0.00
E. Production of Halocarbons and SF ₆				0.00	0.00	0.00	0.00
F. Consumption of Halocarbons and SF ₆				0.00	0.00	0.00	0.00
G. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3. Solvent and Other Product Use	0.00		0.00				0.00
4. Agriculture	0.00	1,833.51	2,774.50				4,608.01
A. Enteric Fermentation		1,548.33					1,548.33
B. Manure Management		285.18	396.80				681.98
C. Rice Cultivation		0.00					0.00
D. Agricultural Soils ⁽²⁾		0.00	2,377.70				2,377.70
E. Prescribed Burning of Savannas		0.00	0.00				0.00
F. Field Burning of Agricultural Residues		0.00	0.00				0.00
G. Other		0.00	0.00				0.00
5. Land-Use Change and Forestry⁽¹⁾	-7,423.53	0.00	0.00				-7,423.53
6. Waste	0.00	992.46	0.00				992.46
A. Solid Waste Disposal on Land	0.00	992.46					992.46
B. Wastewater Handling		0.00	0.00				0.00
C. Waste Incineration	0.00	0.00	0.00				0.00
D. Other	0.00	0.00	0.00				0.00
7. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Memo Items:							
International Bunkers	0.00	0.00	0.00				0.00
Aviation	0.00	0.00	0.00				0.00
Marine	0.00	0.00	0.00				0.00
Multilateral Operations	0.00	0.00	0.00				0.00
CO₂ Emissions from Biomass	0.00						0.00

⁽¹⁾ For CO₂ emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

⁽²⁾ See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ emissions	CO ₂ removals	Net CO ₂ emissions / removals	CH ₄	N ₂ O	Total emissions
	CO ₂ equivalent (Gg)					
Land-Use Change and Forestry						
A. Changes in Forest and Other Woody Biomass Stocks	0.00	0.00	0.00			0.00
B. Forest and Grassland Conversion	0.00		0.00	0.00	0.00	0.00
C. Abandonment of Managed Lands	0.00	0.00	0.00			0.00
D. CO ₂ Emissions and Removals from Soil	0.00	0.00	0.00			0.00
E. Other	0.00	0.00	0.00	0.00	0.00	0.00
Total CO₂ Equivalent Emissions from Land-Use Change and Forestry	0.00	0.00	-7,423.53	0.00	0.00	0.00

Total CO ₂ Equivalent Emissions without Land-Use Change and Forestry ^(a)	34,043.49
Total CO ₂ Equivalent Emissions with Land-Use Change and Forestry ^(a)	26,619.96

^(a) The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry. Note that these totals will differ from the totals reported in Table 10s5 if Parties report non-CO₂ emissions from LUCF.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED

(Sheet 1 of 2)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂		CH ₄		N ₂ O		HFCs		PFCs		SF ₆	
	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾
1. Energy												
A. Fuel Combustion												
1. Energy Industries	C	CS	C	D	C	D						
2. Manufacturing Industries and Construction	C	CS	C	D	C	D						
3. Transport	COPERT	COPERT	COPERT	COPERT	COPERT	COPERT						
4. Other Sectors	C	CS,D	C	CS,D	C	CS,D						
5. Other	NE	NE	NE	NE	NE	NE						
B. Fugitive Emissions from Fuels												
1. Solid Fuels	NE	NE	C	D	NE	NE						
2. Oil and Natural Gas	NE	NE	NE	NE	NE	NE						
2. Industrial Processes												
A. Mineral Products	C	D	NE	NE	NE	NE						
B. Chemical Industry	NE	NE	NE	NE	C	D	NE	NE	NE	NE	NE	NE
C. Metal Production	C	D	C	D	NE	NE			NE	NE	NE	NE
D. Other Production	NE	NE										
E. Production of Halocarbons and SF ₆							NE	NE	NE	NE	NE	NE
F. Consumption of Halocarbons and SF ₆							NE	NE	NE	NE	NE	NE
G. Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

⁽¹⁾ Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific), M (Model). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

⁽²⁾ Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific), M (Model). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED

(Sheet 2 of 2)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂		CH ₄		N ₂ O		HFCs		PFCs		SF ₆	
	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾	Method applied ⁽¹⁾	Emission factor ⁽²⁾
3. Solvent and Other Product Use	NE	NE			NE	NE						
4. Agriculture												
A. Enteric Fermentation			T1	D								
B. Manure Management			T1	D	T1	D						
C. Rice Cultivation			NO	NO								
D. Agricultural Soils	NE	NE	NE	NE	T1	D						
E. Prescribed Burning of Savannas			NO	NO	NO	NO						
F. Field Burning of Agricultural Residues			NE	NE	NE	NE						
G. Other			NE	NE	NE	NE						
5. Land-Use Change and Forestry												
A. Changes in Forest and Other Woody Biomass Stocks	T1	D										
B. Forest and Grassland Conversion	NE	NE	NE	NE	NE	NE						
C. Abandonment of Managed Lands	NE	NE										
D. CO ₂ Emissions and Removals from Soil	NE	NE										
E. Other	NE	NE	NE	NE	NE	NE						
6. Waste												
A. Solid Waste Disposal on Land	NE	NE	C	D								
B. Wastewater Handling			NE	NE	NE	NE						
C. Waste Incineration	NO	NO	NO	NO	NO	NO						
D. Other	NE	NE	NE	NE	NE	NE						
7. Other (please specify) ---	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

(1) Use the following notation keys to specify the method applied: D (IPCC default), RA (Reference Approach), T1 (IPCC Tier 1), T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively), T2 (IPCC Tier 2), T3 (IPCC Tier 3), C (CORINAIR), CS (Country Specific). If using more than one method, enumerate the relevant methods. Explanations of any modifications to the default IPCC methods, as well as information on the proper use of methods per source category where more than one method is indicated, and explanations on the country specific methods, should be provided in the documentation box of the relevant Sectoral background data table.

(2) Use the following notation keys to specify the emission factor used: D (IPCC default), C (CORINAIR), CS (Country Specific), PS (Plant Specific). Where a mix of emission factors has been used, use different notations in one and the same cells with further explanation in the documentation box of the relevant Sectoral background data table.

TABLE 7 OVERVIEW TABLE⁽¹⁾ FOR NATIONAL GREENHOUSE GAS INVENTORIES - COMPLETENESS AND QUALITY OF ESTIMATES
(Sheet 1 of 3)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂		CH ₄		N ₂ O		HFCs		PFCs		SF ₆		NO _x		CO		NMVOC		SO ₂		
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	
Total National Emissions and Removals																					
1 Energy																					
A. Fuel Combustion Activities																					
Reference Approach	ALL	H																			
Sectoral Approach	ALL	H	ALL	H	ALL	H							ALL	H	ALL	H	ALL	H	ALL	H	
1. Energy Industries	ALL	H	ALL	H	ALL	H							ALL	H	ALL	H	ALL	H	ALL	H	
2. Manufacturing Industries and Construction	ALL	H	ALL	H	ALL	H							ALL	H	ALL	H	ALL	H	ALL	H	
3. Transport	PART	M	PART	M	PART	M							PART	M	PART	M	PART	M	PART	M	
4. Other Sectors	ALL	H	ALL	H	ALL	H							ALL	H	ALL	H	ALL	H	ALL	H	
5. Other	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	
B. Fugitive Emissions from Fuels	NE	NE	PART	L	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	
1. Solid Fuels	NE	NE	PART	L	NE	NE															
2. Oil and Natural Gas	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	
2 Industrial Processes													NE	NE	NE	NE	NE	NE	NE	NE	
A. Mineral Products	PART	M	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	PART	M	
B. Chemical Industry	NE	NE	NE	NE	PART	M	NE	NE	NE	NE			PART	M	NE	NE	NE	NE	NE	NE	
C. Metal Production	PART	M	PART	M	NE	NE							PART	M	PART	M	NE	NE	PART	M	
D. Other Production	NE	NE											PART	M	PART	M	PART	M	PART	M	
E. Production of Halocarbons and SF ₆							NE	NE	NE	NE	NE	NE									

⁽¹⁾ This table is intended to be used by Parties to summarize their own assessment of completeness (e.g. partial, full estimate, not estimated) and quality (high, medium, low) of major source/sink inventory estimates. The latter could be understood as a quality assessment of the uncertainty of the estimates. This table might change once the IPCC completes its work on managing uncertainties of GHG inventories. The title of the table was kept for consistency with the current table in the IPCC Guidelines.

Note: To fill in the table use the notation key as given in the IPCC Guidelines (Volume 1. Reporting Instructions, Tables. 37).

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES - COMPLETENESS AND QUALITY OF ESTIMATES

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂		CH ₄		N ₂ O		HFCs		PFCs		SF ₆		NO _x		CO		NMVOC		SO ₂		
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	
2 Industrial Processes (continued)																					
F. Consumption of Halocarbons and SF ₆																					
Potential ⁽²⁾							NE	NE	NE	NE	NE	NE									
Actual ⁽³⁾							NE	NE	NE	NE	NE	NE									
G. Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
3 Solvent and Other Product Use	NE	NE			NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
4 Agriculture														NE	NE	NE	NE	NE	NE	NE	NE
A. Enteric Fermentation			PART	M																	
B. Manure Management			PART	M	PART	M												NE	NE		
C. Rice Cultivation			NE	NE														NE	NE		
D. Agricultural Soils	NE	NE	NE	NE	PART	M												NE	NE		
E. Prescribed Burning of Savannas			NO	NO	NO	NO							NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field Burning of Agricultural Residues			NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Other			NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
5 Land-Use Change and Forestry																					
A. Changes in Forest and Other Woody Biomass Stocks	NE	NE																			
B. Forest and Grassland Conversion	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE

⁽²⁾ Potential emissions based on Tier 1 approach of the IPCC Guidelines.

⁽³⁾ Actual emissions based on Tier 2 approach of the IPCC Guidelines.

TABLE 7 OVERVIEW TABLE FOR NATIONAL GREENHOUSE GAS INVENTORIES - COMPLETENESS AND QUALITY OF ESTIMATES
(Sheet 3 of 3)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂		CH ₄		N ₂ O		HFCs		PFCs		SF ₆		NO _x		CO		NMVOC		SO ₂		
	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	Estimate	Quality	
5 Land-Use Change and Forestry (continued)																					
C. Abandonment of Managed Lands	NE	NE																			
D. CO ₂ Emissions and Removals from Soil	NE	NE																			
E. Other	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
6 Waste	NE	NE											NE	NE	NE	NE	NE	NE	NE	NE	NE
A. Solid Waste Disposal on Land	NE	NE	PART	M											NE	NE	NE	NE	NE	NE	NE
B. Wastewater Handling			NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
C. Waste Incineration	NO	NO	NO	NO	NO	NO							NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Other	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
7 Other (please specify) ...	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Memo Items:																					
International Bunkers	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
Aviation	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
Marine	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
Multilateral Operations	NE	NE	NE	NE	NE	NE							NE	NE	NE	NE	NE	NE	NE	NE	NE
CO₂ Emissions from Biomass	NE	NE																			

TABLE 8(a) RECALCULATION - RECALCULATED DATA

BOSNIA AND HERZEGOVINA

Recalculated year:

1990

(Sheet 1 of 2)

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂			CH ₄			N ₂ O		
	Previous submission	Latest submission	Difference ⁽¹⁾	Previous submission	Latest submission	Difference ⁽¹⁾	Previous submission	Latest submission	Difference ⁽¹⁾
	CO ₂ equivalent (Gg)		(%)	CO ₂ equivalent (Gg)		(%)	CO ₂ equivalent (Gg)		(%)
Total National Emissions and Removals			0.00			0.00			0.00
1. Energy			0.00			0.00			0.00
1.A. Fuel Combustion Activities			0.00			0.00			0.00
1.A.1. Energy Industries			0.00			0.00			0.00
1.A.2. Manufacturing Industries and Construction			0.00			0.00			0.00
1.A.3. Transport			0.00			0.00			0.00
1.A.4. Other Sectors			0.00			0.00			0.00
1.A.5. Other			0.00			0.00			0.00
1.B. Fugitive Emissions from Fuels			0.00			0.00			0.00
1.B.1. Solid fuel			0.00			0.00			0.00
1.B.2. Oil and Natural Gas			0.00			0.00			0.00
2. Industrial Processes			0.00			0.00			0.00
2.A. Mineral Products			0.00			0.00			0.00
2.B. Chemical Industry			0.00			0.00			0.00
2.C. Metal Production			0.00			0.00			0.00
2.D. Other Production			0.00			0.00			0.00
2.G. Other			0.00			0.00			0.00
3. Solvent and Other Product Use			0.00			0.00			0.00
4. Agriculture			0.00			0.00			0.00
4.A. Enteric Fermentation						0.00			
4.B. Manure Management						0.00			0.00
4.C. Rice Cultivation						0.00			
4.D. Agricultural Soils ⁽²⁾			0.00			0.00			0.00
4.E. Prescribed Burning of Savannas						0.00			0.00
4.F. Field Burning of Agricultural Residues						0.00			0.00
4.G. Other						0.00			0.00
5. Land-Use Change and Forestry (net) ⁽³⁾			0.00			0.00			0.00
5.A. Changes in Forest and Other Woody Biomass Stocks			0.00						
5.B. Forest and Grassland Conversion			0.00			0.00			0.00
5.C. Abandonment of Managed Lands			0.00						
5.D. CO ₂ Emissions and Removals from Soil			0.00						
5.E. Other			0.00			0.00			0.00

⁽¹⁾ Estimate the percentage change due to recalculation with respect to the previous submission (Percentage change = 100% x [(LS-PS)/PS], where LS = Latest submission and PS = Previous submission.

All cases of recalculation of the estimate of the source/sink category, should be addressed and explained in Table 8(b) of this common reporting format.

⁽²⁾ See footnote 4 to Summary 1.A of this common reporting format.

⁽³⁾ Net CO₂ emissions/removals to be reported

TABLE 8(a) RECALCULATION - RECALCULATED DATA

BOSNIA AND HERZEGOVINA

Recalculated year: 1990

1990

(Sheet 2 of 2)

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂			CH ₄			N ₂ O		
	Previous submission	Latest submission	Difference ⁽¹⁾	Previous submission	Latest submission	Difference ⁽¹⁾	Previous submission	Latest submission	Difference ⁽¹⁾
	CO ₂ equivalent (Gg)		(%)	CO ₂ equivalent (Gg)		(%)	CO ₂ equivalent (Gg)		(%)
6. Waste			0.00			0.00			0.00
6.A. Solid Waste Disposal on Land			0.00			0.00			0.00
6.B. Wastewater Handling			0.00			0.00			0.00
6.C. Waste Incineration			0.00			0.00			0.00
6.D. Other			0.00			0.00			0.00
7. Other (please specify)			0.00			0.00			0.00
			0.00			0.00			0.00
Memo Items:									
International Bunkers			0.00			0.00			0.00
Multilateral Operations			0.00			0.00			0.00
CO₂ Emissions from Biomass			0.00						

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFCs			PFCs			SF ₆		
	Previous submission	Latest submission	Difference ⁽¹⁾	Previous submission	Latest submission	Difference ⁽¹⁾	Previous submission	Latest submission	Difference ⁽¹⁾
	CO ₂ equivalent (Gg)		(%)	CO ₂ equivalent (Gg)		(%)	CO ₂ equivalent (Gg)		(%)
Total Actual Emissions			0.00			0.00			0.00
2.C.3. Aluminium Production						0.00			0.00
2.E. Production of Halocarbons and SF ₆			0.00			0.00			0.00
2.F. Consumption of Halocarbons and SF ₆			0.00			0.00			0.00
Other			0.00			0.00			0.00
Potential Emissions from Consumption of HFCs/PFCs and SF₆			0.00			0.00			0.00

	Previous submission	Latest submission	Difference ⁽¹⁾
	CO ₂ equivalent (Gg)		(%)
Total CO ₂ Equivalent Emissions with Land-Use Change and Forestry ⁽³⁾			0.00
Total CO ₂ Equivalent Emissions without Land-Use Change and Forestry ⁽³⁾			0.00

⁽³⁾ The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
(Sheet 1 of 1)

Specify the sector and source/sink category ⁽¹⁾ where changes in estimates have occurred:	GHG	RECALCULATION DUE TO			
		CHANGES IN:			Addition/removal/ replacement of source/sink categories
		Methods ⁽²⁾	Emission factors ⁽²⁾	Activity data ⁽²⁾	
...					

⁽¹⁾ Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table (see Table 8(a)).

⁽²⁾ Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in Table 8(a). Include relevant changes in the assumptions and coefficients under the "Methods" column.

Documentation box: Use the documentation box to report the justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory.

TABLE 9 COMPLETENESS - (INFORMATION ON NOTATION KEYS)
(Sheet 1 of 2)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

Sources and sinks not reported (NE) ⁽¹⁾				
GHG	Sector ⁽²⁾	Source/sink category ⁽²⁾	Explanation	
CO ₂ <input type="text" value="..."/>				
CH ₄ <input type="text" value="..."/>				
N ₂ O <input type="text" value="..."/>				
HFCs <input type="text" value="..."/>				
PFCs <input type="text" value="..."/>				
SF ₆ <input type="text" value="..."/>				
Sources and sinks reported elsewhere (IE) ⁽³⁾				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO ₂ <input type="text" value="..."/>				
CH ₄ <input type="text" value="..."/>				
N ₂ O <input type="text" value="..."/>				
HFCs <input type="text" value="..."/>				
PFCs <input type="text" value="..."/>				
SF ₆ <input type="text" value="..."/>				

⁽¹⁾ Please, clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the indicator "NE" is entered in the sectoral tables.

⁽²⁾ Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Wastewater Handling).

⁽³⁾ Please clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the indicator "IE" is used in the sectoral tables.

TABLE 9 COMPLETENESS
(Sheet 2 of 2)

BOSNIA AND HERZEGOVINA
 1990
 Submissio 2009

Additional GHG emissions reported ⁽⁴⁾						
GHG ...	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	Emissions CO ₂ equivalent (Gg)	Reference to the data source of GWP value	Explanation

⁽⁴⁾ Parties are encouraged to provide information on emissions of greenhouse gases whose GWP values have not yet been agreed upon by the COP. Please include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

TABLE 10 EMISSIONS TRENDS (CO₂)
(Sheet 1 of 5)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	(Gg)											
1. Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Fuel Combustion (Sectoral Approach)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF ₆												
F. Consumption of Halocarbons and SF ₆												
G. Other												
3. Solvent and Other Product Use												
4. Agriculture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils ⁽²⁾												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry ⁽³⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO ₂ Emissions and Removals from Soil												
E. Other												
6. Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Solid Waste Disposal on Land												
B. Waste-water Handling												
C. Waste Incineration												
D. Other												
7. Other (please specify) ⁽⁴⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions/Removals with LUCF ⁽⁴⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions without LUCF ⁽⁴⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Memo Items:												
International Bunkers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aviation												
Marine												
Multilateral Operations												
CO₂ Emissions from Biomass												

⁽¹⁾ Fill in the base year adopted by the Party under the Convention, if different from 1990.

⁽²⁾ See footnote 4 to Summary 1.A of this common reporting format.

⁽³⁾ Take the net emissions as reported in Summary 1.A of this common reporting format. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).

⁽⁴⁾ The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report CO₂ emissions and removals from Land-Use Change and Forestry.

TABLE 10 EMISSIONS TRENDS (CH₄)
(Sheet 2 of 5)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	(Gg)											
Total Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Fuel Combustion (Sectoral Approach)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF ₆												
F. Consumption of Halocarbons and SF ₆												
G. Other												
3. Solvent and Other Product Use												
4. Agriculture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO ₂ Emissions and Removals from Soil												
E. Other												
6. Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Solid Waste Disposal on Land												
B. Waste-water Handling												
C. Waste Incineration												
D. Other												
7. Other (please specify)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Memo Items:												
International Bunkers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aviation												
Marine												
Multilateral Operations												
CO₂ Emissions from Biomass												

TABLE 10 EMISSIONS TRENDS (N₂O)
(Sheet 3 of 5)

BOSNIA AND HERZEGOVINA

1990

Submission 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	(Gg)											
Total Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Fuel Combustion (Sectoral Approach)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Solid Fuels												
2. Oil and Natural Gas												
2. Industrial Processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral Products												
B. Chemical Industry												
C. Metal Production												
D. Other Production												
E. Production of Halocarbons and SF ₆												
F. Consumption of Halocarbons and SF ₆												
G. Other												
3. Solvent and Other Product Use												
4. Agriculture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas												
F. Field Burning of Agricultural Residues												
G. Other												
5. Land-Use Change and Forestry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Changes in Forest and Other Woody Biomass Stocks												
B. Forest and Grassland Conversion												
C. Abandonment of Managed Lands												
D. CO ₂ Emissions and Removals from Soil												
E. Other												
6. Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Solid Waste Disposal on Land												
B. Waste-water Handling												
C. Waste Incineration												
D. Other												
7. Other (please specify) ...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Memo Items:												
International Bunkers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aviation												
Marine												
Multilateral Operations												
CO₂ Emissions from Biomass												

TABLE 10 EMISSION TRENDS (HFCs, PFCs and SF₆)

(Sheet 4 of 5)

BOSNIA AND HERZEGOVINA

1990

Submissio 2009

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	(Gg)											
Emissions of HFCs⁽⁵⁾ - CO₂ equivalent (Gg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-23												
HFC-32												
HFC-41												
HFC-43-10mee												
HFC-125												
HFC-134												
HFC-134a												
HFC-152a												
HFC-143												
HFC-143a												
HFC-227ea												
HFC-236fa												
HFC-245ca												
Emissions of PFCs⁽⁵⁾ - CO₂ equivalent (Gg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CF ₄												
C ₂ F ₆												
C ₃ F ₈												
C ₄ F ₁₀												
c-C ₄ F ₈												
C ₅ F ₁₂												
C ₆ F ₁₄												
Emissions of SF₆⁽⁵⁾ - CO₂ equivalent (Gg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SF ₆												

TABLE 10 EMISSION TRENDS (SUMMARY)
(Sheet 5 of 5)

GREENHOUSE GAS EMISSIONS	Base year ⁽¹⁾	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	CO ₂ equivalent (Gg)											
Net CO ₂ emissions/removals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO ₂ emissions (without LUCF) ⁽⁶⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CH ₄	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N ₂ O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PFCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SF ₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total (with net CO₂ emissions/removals)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total (without CO₂ from LUCF)⁽⁶⁾⁽⁸⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	CO ₂ equivalent (Gg)											
1. Energy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. Industrial Processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3. Solvent and Other Product Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4. Agriculture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Land-Use Change and Forestry ⁽⁷⁾	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

⁽⁶⁾ The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report CO₂ emissions and removals from Land-Use Change and Forestry.

⁽⁷⁾ Net emissions.

⁽⁸⁾ The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry. Note that these totals will differ from the totals reported in Table Summary2 if Parties report non-CO₂ emissions from LUCF.

TABLE 11 CHECK LIST OF REPORTED INVENTORY INFORMATION ⁽¹⁾							
Party: BOSNIA AND HERZEGOVINA				Year: 1990			
Contact info:	Focal point for national GHG inventories:						
	Address:						
	Telephone:		Fax:		E-mail:		
	Main institution preparing the inventory:						
General info:	Date of submission:						
	Base years:	1990	PFCs, HFCs, SF ₆ :				
	Year covered in the submission:		1990				
	Gases covered:		CO ₂ , CH ₄ , N ₂ O, CO, NH ₃ , NMVOC, NOX, SO ₂				
	Omissions in geographic coverage:						
Tables:		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
	Sectoral report tables:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Sectoral background data tables:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Summary 1 (IPCC Summary tables):	IPCC Table 7A:		<input checked="" type="checkbox"/>	IPCC Table 7B:		<input checked="" type="checkbox"/>
	Summary 2 (CO ₂ equivalent emissions):			<input checked="" type="checkbox"/>			
	Summary 3 (Methods/Emission factors):			<input checked="" type="checkbox"/>			
	Overview Table 7: (Uncertainty)	IPCC Table 8A:		<input type="checkbox"/>	National information:		<input checked="" type="checkbox"/>
	Recalculation tables:			<input checked="" type="checkbox"/>			
Completeness table:			<input type="checkbox"/>				
Trend table:			<input type="checkbox"/>				
CO₂	Comparison of CO ₂ from fuel combustion:		Worksheet 1-1	Percentage of difference	Explanation of differences		
			<input type="checkbox"/>	-0.31	<input type="checkbox"/>		
Recalculation:		Energy	Ind. Processes	Solvent Use	LUCF	Agriculture	Waste
	CO ₂	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	CH ₄	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	N ₂ O	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	HFCs, PFCs, SF ₆		<input type="checkbox"/>				
	Explanations:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Recalculation tables for all recalculated years:			<input type="checkbox"/>			
Full CRF for the recalculated base year:			<input type="checkbox"/>				
HFCs, PFCs, SF₆:		HFCs		PFCs		SF ₆	
	Disaggregation by species:	<input type="checkbox"/>		<input type="checkbox"/>			
	Production of Halocarbons/SF ₆ :	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	Consumption of Halocarbons/SF ₆ :	Actual	Potential	Actual	Potential	Actual	Potential
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential/Actual emission ratio:	0.00		0.00		0.00		
Reference to National Inventory Report and/or national inventory web site:							

CRF - Common Reporting Format.
LUCF - Land-Use Change and Forestry.

⁽¹⁾ For each omission, give an explanation for the reasons by inserting a comment to the corresponding cell.