

Conversion and Emission Factors

Fuelwood

			1000 Kg/TJ
	13.8 MJ/kg	PCI wood	1000 Kg/32,47MT
	13.8 GJ/MT	PCI wood	
	13.8 TJ/1000 MT	PCI wood	32.47 MT/TJ
	29.9 t C/TJ	(IPCC/OECD default Factor)	
	412.6 t C/1000 MT	(emission factor for consumption)	

Charcoal

	30.8 MJ/kg	PCI charcoal
	30.8 GJ/MT	PCI charcoal
	30.8 TJ/1000MT	PCI charcoal
	22.7 t C/TJ	(derived from IPCC/OECD assumption of 0,7 Carbon fraction of the charcoal)
	700.0 t C/1000 MT	(emission factor for consumption derived from IPCC/OECD assumption above)

Emission factors for Woodfuels use (1000 MT GHG/1000 MT)

Conversion from Carbon to CO2			3.667			
	CO2	CH4	N2O	NOx	CO	NMVOC
Fuelwood	1.513	0.00414	0.0000552	0.00138	0.069	0.00828
Charcoal (per unit of charcoal produced and consumed)						
<i>Consumption process</i>	2.567	0.00616	0.0000308	0.00308	0.2156	0.00308
<i>Production process*</i>	6.511	0.0308		0.000308	0.2156	0.05236
Total Charcoal	9.078	0.037	0.0000308	0.0034	0.431	0.055

Specific CO2 emission due to charcoal production was not provided by IPCC/OECD methodology.

For the purpose of the current study, an emission factor was derived by considering the difference between the carbon content of the Fuelwood units used as inputs in the production process, and the resulting carbon content of the charcoal output. This difference is considered as the carbon that was emitted to the atmosphere.

	Country	Table A.F.CO2 : CO2 emissions due to Fuelwood use																		
		1000 MT																		
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1	Burkina Faso	5,707	5,978	6,262	6,559	6,871	7,198	7,539	7,898	8,273	8,666	9,078	9,521	9,988	10,477	10,987	11,522	12,081	0	
2	Cape Verde	41	42	44	50	58	67	77	88	102	104	106	109	111	114	117	120	123	0	
3	Chad	2,223	2,228	2,234	2,240	2,246	2,252	2,258	2,263	2,269	2,275	2,281	2,287	2,293	2,300	2,307	2,314	2,321	0	
4	Gambia	581	651	670	689	709	730	752	774	796	820	844	868	894	920	943	965	982	0	
5	Guinea-Bissau	832	740	653	575	506	446	393	346	303	267	237	211	188	166	145	125	106	0	
6	Mali	4,517	4,704	4,898	5,100	5,310	5,530	5,758	5,996	6,176	6,362	6,553	6,751	6,954	7,170	7,391	7,615	7,843	0	
7	Mauritania	1,024	1,056	1,045	958	878	804	737	675	619	560	517	477	441	407	376	347	321	0	
8	Niger	3,209	3,178	3,147	3,129	3,112	3,094	3,077	3,060	3,043	3,026	3,161	3,303	3,451	3,605	3,770	3,942	4,120	0	
9	Senegal	6,418	3,297	5,749	4,708	3,856	3,158	2,586	2,118	1,727	1,369	1,034	712	401	105	26	6	0	0	
	West Sahelian Africa	24,551.3	21,873.4	24,702.1	24,009.7	23,546.7	23,278.5	23,176.7	23,218.4	23,758.0	24,444.8	25,309.0	25,991.2	27,172.8	27,786.7	29,047.4	30,099.5	31,191.2	0	
10	Djibouti	33	35	37	40	42	45	48	51	55	57	60	62	64	66	68	70	72	0	
11	Eritrea	0	0	0	0	0	0	0	0	0	0	0	0	0	3,224	3,380	3,564	3,780	0	
12	Ethiopia	29,835	31,514	33,286	35,159	37,137	39,226	41,432	43,763	46,225	48,825	51,572	53,996	56,534	59,873	63,390	67,128	71,224	0	
13	Kenya	22,194	27,373	33,844	22,297	23,936	21,305	19,881	20,476	19,388	18,960	19,097	19,254	19,464	19,689	19,830	20,069	21,424	0	
14	Somalia	4,614	4,977	5,368	4,608	3,957	3,979	3,988	3,985	3,973	3,955	3,936	3,915	3,894	3,880	3,885	3,913	3,968	0	
15	Sudan	13,278	13,007	12,590	12,187	11,797	11,420	11,056	10,703	10,362	10,032	9,713	9,404	9,105	8,816	8,537	8,267	8,014	0	
	East Sahelian Africa	69,953.1	76,904.5	85,125.9	74,290.8	76,869.4	75,974.8	76,405.2	78,978.5	80,001.6	81,829.6	84,377.8	86,630.9	89,061.6	92,238.8	95,571.9	99,272.0	105,186.3	0	
16	Benin	2,559	2,617	2,679	2,745	2,813	2,882	2,953	3,026	3,101	3,177	3,252	3,328	3,405	3,482	3,560	3,638	3,718	0	
17	Côte D'Ivoire	5,573	5,367	5,170	4,976	4,791	4,614	4,796	5,680	6,745	8,030	7,339	7,662	8,002	8,349	8,687	9,009	9,307	0	
18	Ghana	6,886	7,110	7,342	7,582	7,830	8,085	8,484	8,905	9,348	9,815	10,308	10,185	10,064	9,945	9,828	9,713	9,880	0	
19	Guinea	8,501	8,207	7,928	7,662	7,409	7,671	7,942	8,223	8,514	8,816	8,609	8,412	8,222	8,041	7,867	8,136	8,306	0	
20	Liberia	3,158	3,063	2,961	2,531	2,769	2,908	3,079	3,274	3,451	3,551	3,303	2,955	2,557	2,195	1,939	1,943	2,055	0	
21	Nigeria	146,619	145,472	144,393	143,378	142,423	141,551	140,711	139,911	139,174	138,486	137,906	134,764	131,790	128,974	124,444	120,072	133,730	0	
22	Sierra Leone	3,152	3,175	3,198	3,223	3,251	3,253	3,265	3,305	3,344	3,372	3,384	3,378	3,358	3,336	3,325	3,337	3,377	0	
23	Togo	2,008	2,070	2,135	2,200	2,269	2,341	2,415	2,493	2,574	2,661	2,748	2,837	2,927	3,021	3,115	3,210	3,305	0	
	West Moist Africa	178,455.7	177,082.0	175,807.7	174,298.3	173,555.4	173,305.3	173,645.7	174,817.0	176,252.7	177,909.4	176,849.5	173,520.7	170,325.0	167,342.4	162,765.6	159,059.1	173,679.3	0	
24	Burundi	2,402	2,467	2,535	2,606	2,681	2,761	2,846	2,936	3,026	3,110	3,199	3,292	3,389	3,490	3,593	3,700	3,810	0	
25	Cameroon	10,038	10,389	10,511	10,790	11,075	11,369	11,668	11,974	12,289	12,610	12,930	12,851	12,974	13,098	13,223	13,349	14,871	0	
26	Central African Rep.	2,355	2,411	2,466	2,524	2,583	2,645	2,709	2,776	2,843	2,912	2,983	3,052	3,121	3,191	3,262	3,333	3,405	0	
27	Congo, Dem. Rep.	26,840	27,391	27,967	28,564	27,718	26,925	26,196	25,546	24,999	24,587	24,360	27,035	30,211	34,053	38,796	44,549	50,517	0	
28	Congo, Rep.	1,618	1,665	1,713	1,762	1,812	1,866	1,921	1,979	2,038	2,100	2,164	2,231	2,299	2,370	2,442	2,515	2,772	0	
29	Equatorial Guinea	232	244	262	281	285	283	276	266	254	242	231	246	262	280	301	324	367	0	
30	Gabon	627	643	660	675	679	683	688	695	701	707	709	734	758	785	813	845	949	0	
31	Rwanda	3,239	3,342	3,443	3,546	3,664	3,797	3,961	4,147	4,312	4,541	4,781	5,035	4,977	4,849	4,811	5,008	5,546	0	
32	Sao Tome and Principe	116	120	122	126	127	131	134	137	139	143	147	151	153	157	162	164	180	0	
33	Uganda	16,334	17,641	19,052	20,575	22,221	23,999	24,888	25,829	26,822	27,879	29,001	30,193	31,459	29,977	28,752	27,618	26,711	26,023	
	Central Africa	63,801.7	66,312.8	68,730.6	71,450.5	72,845.2	74,458.2	75,286.9	76,285.7	77,424.0	79,031.9	80,715.7	85,450.3	90,467.4	93,365.3	97,553.7	103,134.9	111,244.3	26,023	
34	Angola	4,917	4,998	4,994	5,081	5,171	5,303	5,401	5,504	5,611	5,725	5,852	5,959	6,072	6,191	6,316	6,447	6,587	0	
35	Botswana	1,320	1,362	1,405	1,450	1,496	1,543	1,592	1,643	1,695	1,749	1,804	1,861	1,919	1,980	2,027	2,073	2,121	0	
36	Malawi	16,358	15,368	14,456	13,624	12,881	12,229	12,021	11,924	11,920	11,994	12,133	12,165	12,185	12,198	12,212	12,234	12,266	0	
37	Mozambique	16,709	17,058	17,403	17,716	17,957	18,109	18,145	18,096	18,044	18,105	18,357	18,939	19,539	20,159	20,798	21,458	21,924	0	
38	Namibia	1,471	1,504	1,537	1,571	1,607	1,644	1,682	1,718	1,760	1,803	1,847	1,898	1,942	1,986	2,026	2,069	2,120	0	
39	Saint Helena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40	Tanzania, United Rep.*	31,324	34,012	43,002	41,950	40,952	40,007	39,117	38,350	37,561	36,835	36,211	37,409	38,683	40,039	41,487	43,260	47,965	0	
41	Zambia	7,786	8,767	8,697	8,742	8,848	8,987	9,123	9,221	9,354	9,543	9,543	9,580	9,618	9,657	9,699	9,742	10,784	0	
42	Zimbabwe	10,757	11,516	12,411	12,293	12,182	12,078	11,983	11,901	11,835	11,790	11,775	12,289	12,829	13,398	15,436	13,769	14,766	0	
	Tropical Southern Africa	90,642.8	94,585.6	103,904.3	102,427.1	101,092.9	99,899.4	98,988.7	98,258.8	97,645.8	97,353.0	97,522.6	100,099.6	102,787.5	105,608.5	110,002.2	111,054.0	118,533.7	0	
43	Comoros	194	201	207	214	220	227	234	242	249	257	265	273	282	291	300	310	320	0	
44	Madagascar	5,038	5,276	5,526	5,789	6,073	6,371	6,683	7,011	7,355	7,716	8,093	8,486	8,895	9,320	9,763	10,224	10,705	0	
45	Mauritius	32	32	32	33	33	33	33	34	34	34	35	35	35	36	37	37	37	0	
46	Reunion	52	46	40	36	32	28	25	22	20	18	16	14	13	12	11	10	9	0	
47	Seychelles	12	11	9	8	7	6	5	4	4	3	3	2	2	2	2	1	1	0	
	Insular East Africa	5,328.0	5,564.8	5,814.6	6,078.8	6,364.8	6,665.0	6,980.8	7,313.1	7,661.5	8,028.2	8,411.8	8,810.9	9,227.4	9,660.9	10,111.7	10,582.2	11,072.4	0	
	Total Tropical Africa	432,732.7	442,323.1	464,085.3	452,555.3	454,274.4	453,581.3	454,484.0	458,871.5	462,743.6	468,596.8	473,186.4	480,503.7	489,041.6	496,002.8	505,052.4	513,201.6	550,907.1	26,023	
48	Algeria	1,004	1,083	1,168	1,260	1,359	1,465	1,580	1,704	1,838	1,888	1,940	1,992	2,046	2,102	2,159	2,218	2,288	0	
49	Egypt	347	394	448	509	579	658	748	850	966	1,098	1,248	1,418	1,612	1,832	2,081	2,366	2,688	0	
50	Libyan Arab Jamahiriya	324	339	355	371	387	404	420	435	451	468	485	502	520	538	557	576	596	0	
51	Morocco	12,074	12,102	12,152	12,204	12,234	12,266	12,303	12,340	12,443	12,479	12,495	12,508	12,364	12,165	12,024	11,979	11,940	0	
52	Tunisia	2,321	2,185	2,067	1,962	1,870	1,909	1,958	2,014	2,078	2,147	2,223	2,303	2,389	2,480	2,576	2,676	2,781	2,891	
	North Africa	16,070.9	16,103.9	16,190.0	16,307.3	16,429.3														

Country	Table A.F.CH4 : CH4 emissions due to Fuelwood use																			
	1000 MT																			
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
1 Burkina Faso	15.6	16.4	17.1	17.9	18.8	19.7	20.6	21.6	22.6	23.7	24.8	26.1	27.3	28.7	30.1	31.5	33.1	0.0		
2 Cape Verde	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0		
3 Chad	6.1	6.1	6.1	6.1	6.1	6.2	6.2	6.2	6.2	6.3	6.3	6.4	6.5	6.5	6.6	6.7	0.0			
4 Gambia	1.6	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.6	2.6	2.7	0.0		
5 Guinea-Bissau	2.3	2.0	1.8	1.6	1.4	1.2	1.1	0.9	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	0.0			
6 Mali	12.4	12.9	13.4	14.0	14.5	15.1	15.8	16.4	16.9	17.4	17.9	18.5	19.0	19.6	20.2	20.8	21.5	0.0		
7 Mauritania	2.8	2.9	2.9	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.4	1.3	1.2	1.1	1.0	1.0	0.9	0.0		
8 Niger	8.8	8.7	8.6	8.6	8.5	8.5	8.4	8.4	8.3	8.3	8.7	9.0	9.4	9.9	10.3	10.8	11.3	0.0		
9 Senegal	17.6	9.0	15.7	12.9	10.6	8.6	7.1	5.8	5.8	6.2	6.5	6.2	7.2	6.4	7.3	7.6	7.8	0.0		
West Sahelian Africa	67.2	59.9	67.6	65.7	64.4	63.7	63.4	63.5	65.0	66.9	69.3	71.1	74.4	76.0	79.5	82.4	85.4	0.0		
10 Djibouti	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0		
11 Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12 Ethiopia	81.6	86.2	91.1	96.2	101.6	107.3	113.4	119.8	126.5	133.6	141.1	147.8	154.7	154.8	163.8	173.5	183.7	0.0		
13 Kenya	60.7	74.9	92.6	61.0	65.5	58.3	54.4	56.0	53.1	51.9	52.3	52.7	53.3	53.9	54.3	54.9	58.6	0.0		
14 Somalia	12.6	13.6	14.7	12.6	10.8	10.9	10.9	10.9	10.9	10.8	10.8	10.7	10.7	10.6	10.6	10.7	10.9	0.0		
15 Sudan	36.3	35.6	34.5	33.3	32.3	31.3	30.3	29.3	28.4	27.5	26.6	25.7	24.9	24.1	23.4	22.6	24.1	0.0		
East Sahelian Africa	191.4	210.4	232.9	203.3	210.3	207.9	209.1	216.1	218.9	223.9	230.9	237.1	243.7	252.4	261.5	271.6	287.8	0.0		
16 Benin	7.0	7.2	7.3	7.5	7.7	7.9	8.1	8.3	8.5	8.7	8.9	9.1	9.3	9.5	9.7	10.0	10.2	0.0		
17 Côte D'Ivoire	15.2	14.7	14.1	13.6	13.1	12.6	13.1	15.5	18.5	22.0	20.1	21.0	21.9	22.8	23.8	24.7	25.5	0.0		
18 Ghana	18.8	19.5	20.1	20.7	21.4	22.1	23.2	24.4	25.6	26.9	28.2	27.9	27.5	27.2	26.9	26.6	27.0	0.0		
19 Guinea	23.3	22.5	21.7	21.0	20.3	21.0	21.7	22.5	23.3	24.1	23.6	23.0	22.5	22.0	21.5	22.3	22.7	0.0		
20 Liberia	8.6	8.4	8.1	6.9	7.6	8.0	8.4	9.0	9.4	9.7	9.0	8.1	7.0	6.0	5.3	5.3	5.6	0.0		
21 Nigeria	401.2	398.1	395.1	392.3	389.7	387.3	385.0	382.9	380.8	379.0	377.4	368.8	360.6	352.9	340.5	328.6	365.9	0.0		
22 Sierra Leone	8.6	8.7	8.8	8.8	8.9	8.9	8.9	9.0	9.2	9.2	9.3	9.2	9.2	9.1	9.1	9.1	9.2	0.0		
23 Togo	5.5	5.7	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.3	7.5	7.8	8.0	8.3	8.5	8.8	9.0	0.0		
West Moist Africa	488.3	484.6	481.1	476.9	474.9	474.2	475.2	478.4	482.3	486.8	483.9	474.8	466.1	457.9	445.4	435.2	475.3	0.0		
24 Burundi	6.6	6.8	6.9	7.1	7.3	7.6	7.8	8.0	8.3	9.1	9.9	10.7	11.6	12.6	13.7	14.9	16.2	0.0		
25 Cameroon	27.5	28.4	28.8	29.5	30.3	31.1	31.9	32.8	33.6	34.5	34.8	35.2	35.5	35.8	36.2	36.5	40.7	0.0		
26 Central African Rep.	6.4	6.6	6.7	6.9	7.1	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.5	8.7	8.9	9.1	9.3	0.0		
27 Congo, Dem. Rep.	73.4	75.0	76.5	78.2	75.8	73.7	71.7	69.9	68.4	67.3	66.7	74.0	82.7	93.2	106.2	121.9	138.2	0.0		
28 Congo, Rep.	4.4	4.6	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	6.1	6.3	6.5	6.7	6.9	7.6	0.0		
29 Equatorial Guinea	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.8	0.8	0.9	1.0	0.0		
30 Gabon	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.6	0.0		
31 Rwanda	8.9	9.1	9.4	9.7	10.0	10.4	10.8	11.3	11.8	12.4	13.1	13.8	13.6	13.3	13.2	13.7	15.2	0.0		
32 Sao Tome and Principe	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0		
33 Uganda	44.7	48.3	52.1	56.3	60.8	65.7	68.1	70.7	73.4	76.3	79.4	82.6	86.1	82.0	78.7	75.6	73.1	71.2		
Central Africa	174.6	181.5	188.1	195.5	199.3	203.7	206.0	208.7	211.9	216.3	220.9	233.8	247.6	255.5	266.9	282.2	304.4	71.2		
34 Angola	13.5	13.7	13.7	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.3	17.6	18.0	0.0		
35 Botswana	3.6	3.7	3.8	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.1	5.3	5.4	5.5	5.7	5.8	0.0		
36 Malawi	44.8	42.1	39.6	37.3	35.2	33.5	32.9	32.6	32.6	32.8	33.2	33.3	33.4	33.4	33.5	33.6	33.6	0.0		
37 Mozambique	45.7	46.7	47.6	48.5	49.1	49.6	49.7	49.5	49.4	49.5	50.2	51.8	53.5	55.2	56.9	58.7	60.0	0.0		
38 Namibia	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.5	5.7	5.8	0.0		
39 Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
40 Tanzania, United Rep.*	85.7	93.1	117.7	114.8	112.1	109.5	107.0	104.9	102.8	100.8	99.1	102.4	105.9	109.6	113.5	118.4	131.3	0.0		
41 Zambia	21.3	24.0	23.8	23.9	24.2	24.6	24.8	25.0	25.2	25.6	26.1	26.2	26.3	26.4	26.5	26.7	29.5	0.0		
42 Zimbabwe	29.4	31.5	34.0	33.6	33.3	33.0	32.8	32.6	32.4	32.3	32.2	33.6	35.1	36.7	42.2	37.7	40.4	0.0		
Tropical Southern Africa	248.0	258.8	284.3	280.3	276.6	273.4	270.9	268.9	267.2	266.4	266.9	273.9	281.3	289.0	301.0	303.9	324.4	0.0		
43 Comoros	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.0		
44 Madagascar	13.8	14.4	15.1	15.8	16.6	17.4	18.3	19.2	20.1	21.1	22.1	23.2	24.3	25.5	26.7	28.0	29.3	0.0		
45 Mauritius	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0		
46 Reunion	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
47 Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Insular East Africa	14.6	15.2	15.9	16.6	17.4	18.2	19.1	20.0	21.0	22.0	23.0	24.1	25.2	26.4	27.7	29.0	30.3	0.0		
Total Tropical Africa	1,184.1	1,210.4	1,269.9	1,238.4	1,243.1	1,241.2	1,243.6	1,255.7	1,266.2	1,282.3	1,294.8	1,314.8	1,338.2	1,357.3	1,382.0	1,404.3	1,507.5	71.2		
48 Algeria	2.7	3.0	3.2	3.4	3.7	4.0	4.3	4.7	5.0	5.2	5.3	5.5	5.6	5.8	5.9	6.1	6.3	0.0		
49 Egypt	0.9	1.1	1.2	1.4	1.6	1.8	2.0	2.3	2.6	3.0	3.4	3.9	4.4	5.0	5.7	6.5	7.4	0.0		
50 Libyan Arab Jamahiriya	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	0.0		
51 Morocco	33.0	33.1	33.3	33.4	33.5	33.6	33.7	33.8	34.0	34.1	34.2	34.2	33.8	33.3	32.9	32.8	32.7	0.0		
52 Tunisia	6.4	6.0	5.7	5.4	5.1	5.2	5.4	5.5	5.7	5.9	6.1	6.3	6.5	6.8	7.0	7.3	7.6	7.9		
North Africa	44.0	44.1	44.3	44.6	45.0	45.7	46.5	47.5	48.6	49.5	50.3	51.2	51.8	52.3	53.1	54.2	55.5	7.9		
53 Lesotho	3.0	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.6	0.0		
54 South Africa	78.0	79.6	81.2	83.0	84.3	85.8	87.4	89.1	90.8	96.7	98.5	100.1	102.3	104.1	86.0	74.6	63.6	48.2		
55 Swaziland	2.8	2.9	2.9	3.1	3.2	3.2	3.3	3.3	3.4	3.3	3.3	3.5	3.6	3.8	3.8	3.9	3.9	0.0		
Non tropical Southern Africa	83.7	85.5	87.3	89.3	90.8	92.4	94.1	96.0	97.8	103.8	105.7	107.6	110.0	112.1	94.2	82.9	72.1	48.2		
Total Non-tropical Africa	127.7	129.5	131.6	134.0	135.7	138.1	140.7	143.4	146.5	153.3	156.0	158.9	161.8	164.4	147.2	137.1	127.6	56.1		
Total Africa	1,312	1,340	1,401	1,372	1,379	1,379	1,384	1,399	1,413	1,436	1,451	1,474	1,500	1,522	1,529	1,541	1,635	127		

NB : since no emission factors were available for Black Liquor, it was included in the Fuelwood calculations.

Country		Table A.F.N2O : N2O emissions due to Fuelwood use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	
2	Cape Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	Chad	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
4	Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	Guinea-Bissau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	Mali	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	
7	Mauritania	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	Niger	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
9	Senegal	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	West Sahelian Africa	0.9	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	0.0	
10	Djibouti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	
12	Ethiopia	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4	
13	Kenya	0.8	1.0	1.2	0.8	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.0	
14	Somalia	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
15	Sudan	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.0	
	East Sahelian Africa	2.6	2.8	3.1	2.7	2.8	2.8	2.9	2.9	3.0	3.1	3.2	3.2	3.4	3.5	3.6	3.8	0.0	
16	Benin	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
17	Côte D'Ivoire	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	
18	Ghana	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	
19	Guinea	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	
20	Liberia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
21	Nigeria	5.3	5.3	5.3	5.2	5.2	5.2	5.1	5.1	5.1	5.0	4.9	4.8	4.7	4.5	4.4	4.9	0.0	
22	Sierra Leone	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
23	Togo	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
	West Moist Africa	6.5	6.5	6.4	6.4	6.3	6.3	6.4	6.4	6.5	6.5	6.3	6.2	6.1	5.9	5.8	6.3	0.0	
24	Burundi	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.0	
25	Cameroon	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	
26	Central African Rep.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
27	Congo, Dem. Rep.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.1	1.2	1.4	1.6	1.8	0.0	
28	Congo, Rep.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
29	Equatorial Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	Gabon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	Rwanda	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	
32	Sao Tome and Principe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	Uganda	0.6	0.6	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.0	0.9	
	Central Africa	2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	3.1	3.3	3.4	3.6	3.8	4.1	0.9	
34	Angola	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	
35	Botswana	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
36	Malawi	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	
37	Mozambique	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.0	
38	Namibia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	Tanzania, United Rep.*	1.1	1.2	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.4	1.4	1.5	1.5	1.6	1.8	0.0	
41	Zambia	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.0	
42	Zimbabwe	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.0	
	Tropical Southern Africa	3.3	3.5	3.8	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.7	3.8	3.9	4.0	4.1	4.3	0.0	
43	Comoros	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	Madagascar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.0	
45	Mauritius	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47	Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Insular East Africa	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.0	
	Total Tropical Africa	15.8	16.1	16.9	16.5	16.6	16.5	16.6	16.7	16.9	17.1	17.3	17.5	17.8	18.1	18.4	18.7	20.1	
48	Algeria	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
49	Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
50	Libyan Arab Jamahiriya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
51	Morocco	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.0	
52	Tunisia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	North Africa	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.1	
53	Lesotho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
54	South Africa	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.1	1.0	0.8	0.6	
55	Swaziland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	
	Non tropical Southern A	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.3	1.1	0.6	
	Total Non-tropical Africa	1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.0	1.8	0.7	
	Total Africa	17.5	17.9	18.7	18.3	18.4	18.4	18.5	18.7	18.8	19.1	19.3	19.6	20.0	20.3	20.4	20.6	21.8	

Country	Table A.F.NOx : NOx emissions due to Fuelwood use																		
	1000 MT																		
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
1 Burkina Faso	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.9	8.3	8.7	9.1	9.6	10.0	10.5	11.0	0.0	
2 Cape Verde	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
3 Chad	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	0.0	
4 Gambia	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.0	
5 Guinea-Bissau	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.0	
6 Mali	4.1	4.3	4.5	4.7	4.8	5.0	5.3	5.5	5.6	5.8	6.0	6.2	6.3	6.5	6.7	6.9	7.2	0.0	
7 Mauritania	0.9	1.0	1.0	0.9	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.0	
8 Niger	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.8	0.0	
9 Senegal	5.9	3.0	5.2	4.3	3.5	2.9	2.4	1.9	1.9	2.1	2.2	2.1	2.4	2.1	2.4	2.5	2.6	0.0	
West Sahelian Africa	22.4	20.0	22.5	21.9	21.5	21.2	21.1	21.2	21.7	22.3	23.1	23.7	24.8	25.3	26.5	27.5	28.5	0.0	
10 Djibouti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
11 Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	3.1	3.3	3.4	0.0	
12 Ethiopia	27.2	28.7	30.4	32.1	33.9	35.8	37.8	39.9	42.2	44.5	47.0	49.3	51.6	51.6	54.6	57.8	61.2	0.0	
13 Kenya	20.2	25.0	30.9	20.3	21.8	19.4	18.1	18.7	17.7	17.3	17.4	17.6	17.8	18.0	18.1	18.3	19.5	0.0	
14 Somalia	4.2	4.5	4.9	4.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.6	3.6	0.0	
15 Sudan	12.1	11.9	11.5	11.1	10.8	10.4	10.1	9.8	9.5	9.2	8.9	8.6	8.3	8.0	7.8	7.5	8.0	0.0	
East Sahelian Africa	63.8	70.1	77.6	67.8	70.1	69.3	69.7	72.0	73.0	74.6	77.0	79.0	81.2	84.1	87.2	90.5	95.9	0.0	
16 Benin	2.3	2.4	2.4	2.5	2.6	2.6	2.7	2.8	2.8	2.9	3.0	3.0	3.1	3.2	3.2	3.3	3.4	0.0	
17 Côte D'Ivoire	5.1	4.9	4.7	4.5	4.4	4.2	4.4	5.2	6.2	7.3	6.7	7.0	7.3	7.6	7.9	8.2	8.5	0.0	
18 Ghana	6.3	6.5	6.7	6.9	7.1	7.4	7.7	8.1	8.5	9.0	9.4	9.3	9.2	9.1	9.0	8.9	9.0	0.0	
19 Guinea	7.8	7.5	7.2	7.0	6.8	7.0	7.2	7.5	7.8	8.0	7.9	7.7	7.5	7.3	7.2	7.4	7.6	0.0	
20 Liberia	2.9	2.8	2.7	2.3	2.5	2.7	2.8	3.0	3.1	3.2	3.0	2.7	2.3	2.0	1.8	1.8	1.9	0.0	
21 Nigeria	133.7	132.7	131.7	130.8	129.9	129.1	128.3	127.6	126.9	126.3	125.8	122.9	120.2	117.6	113.5	109.5	122.0	0.0	
22 Sierra Leone	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.1	0.0	
23 Togo	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.5	2.6	2.7	2.8	2.8	2.9	3.0	0.0	
West Moist Africa	162.8	161.5	160.4	159.0	158.3	158.1	158.4	159.5	160.8	162.3	161.3	158.3	155.4	152.6	148.5	145.1	158.4	0.0	
24 Burundi	2.2	2.3	2.3	2.4	2.4	2.5	2.6	2.7	2.8	3.0	3.3	3.6	3.9	4.2	4.6	5.0	5.4	0.0	
25 Cameroon	9.2	9.5	9.6	9.8	10.1	10.4	10.6	10.9	11.2	11.5	11.6	11.7	11.8	11.9	12.1	12.2	13.6	0.0	
26 Central African Rep.	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	3.0	3.0	3.1	0.0	
27 Congo, Dem. Rep.	24.5	25.0	25.5	26.1	25.3	24.6	23.9	23.3	22.8	22.4	22.2	24.7	27.6	31.1	35.4	40.6	46.1	0.0	
28 Congo, Rep.	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.5	0.0	
29 Equatorial Guinea	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.0	
30 Gabon	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.0	
31 Rwanda	3.0	3.0	3.1	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.4	4.6	4.5	4.4	4.4	4.6	5.1	0.0	
32 Sao Tome and Principe	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	
33 Uganda	14.9	16.1	17.4	18.8	20.3	21.9	22.7	23.6	24.5	25.4	26.5	27.5	28.7	27.3	26.2	25.2	24.4	23.7	
Central Africa	58.2	60.5	62.7	65.2	66.4	67.9	68.7	69.6	70.6	72.1	73.6	77.9	82.5	85.2	89.0	94.1	101.5	23.7	
34 Angola	4.5	4.6	4.6	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.8	5.9	6.0	0.0	
35 Botswana	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.8	1.9	1.9	0.0	
36 Malawi	14.9	14.0	13.2	12.4	11.7	11.2	11.0	10.9	10.9	10.9	11.1	11.1	11.1	11.1	11.1	11.2	11.2	0.0	
37 Mozambique	15.2	15.6	15.9	16.2	16.4	16.5	16.6	16.5	16.5	16.5	16.7	17.3	17.8	18.4	19.0	19.6	20.0	0.0	
38 Namibia	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	0.0	
39 Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40 Tanzania, United Rep.*	28.6	31.0	39.2	38.3	37.4	36.5	35.7	35.0	34.3	33.6	33.0	34.1	35.3	36.5	37.8	39.5	43.8	0.0	
41 Zambia	7.1	8.0	7.9	8.0	8.1	8.2	8.3	8.3	8.4	8.5	8.7	8.7	8.8	8.8	8.8	8.9	9.8	0.0	
42 Zimbabwe	9.8	10.5	11.3	11.2	11.1	11.0	10.9	10.9	10.8	10.8	10.7	11.2	11.7	12.2	14.1	12.6	13.5	0.0	
Tropical Southern Africa	82.7	86.3	94.8	93.4	92.2	91.1	90.3	89.6	89.1	88.8	89.0	91.3	93.8	96.3	100.3	101.3	108.1	0.0	
43 Comoros	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.0	
44 Madagascar	4.6	4.8	5.0	5.3	5.5	5.8	6.1	6.4	6.7	7.0	7.4	7.7	8.1	8.5	8.9	9.3	9.8	0.0	
45 Mauritius	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46 Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47 Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Insular East Africa	4.9	5.1	5.3	5.5	5.8	6.1	6.4	6.7	7.0	7.3	7.7	8.0	8.4	8.8	9.2	9.7	10.1	0.0	
Total Tropical Africa	394.7	403.5	423.3	412.8	414.4	413.7	414.5	418.6	422.1	427.4	431.6	438.3	446.1	452.4	460.7	468.1	502.5	23.7	
48 Algeria	0.9	1.0	1.1	1.1	1.2	1.3	1.4	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	0.0	
49 Egypt	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	0.0	
50 Libyan Arab Jamahiriya	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.0	
51 Morocco	11.0	11.0	11.1	11.1	11.2	11.2	11.3	11.3	11.4	11.4	11.4	11.4	11.3	11.1	11.0	10.9	10.9	0.0	
52 Tunisia	2.1	2.0	1.9	1.8	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.2	2.3	2.3	2.4	2.5	2.6	
North Africa	14.7	14.7	14.8	14.9	15.0	15.2	15.5	15.8	16.2	16.5	16.8	17.1	17.3	17.4	17.7	18.1	18.5	2.6	
53 Lesotho	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	0.0	
54 South Africa	26.0	26.5	27.1	27.7	28.1	28.6	29.1	29.7	30.3	32.2	32.8	33.4	34.1	34.7	28.7	24.9	21.2	16.1	
55 Swaziland	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	0.0	
Non tropical Southern A	27.9	28.5	29.1	29.8	30.3	30.8	31.4	32.0	32.6	34.6	35.2	35.9	36.7	37.4	31.4	27.6	24.0	16.1	
Total Non-tropical Africa	42.6	43.2	43.9	44.7	45.2	46.0	46.9	47.8	48.8	51.1	52.0	53.0	53.9	54.8	49.1	45.7	42.5	18.7	
Total Africa	437.3	446.6	467.2	457.4	459.6	459.8	461.4	466.4	470.9	478.5	483.6	491.2	500.0	507.2	509.8	513.8	545.0	42.4	

NB : since no emission factors were available for Black Liquor, it was included in the Fuelwood calculations.

Country		Table A.F.CO : CO emissions due to Fuelwood use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	260.3	272.6	285.6	299.2	313.4	328.3	343.8	360.2	377.3	395.2	414.0	434.2	455.5	477.8	501.1	525.5	551.0	0.0
2	Cape Verde	1.8	1.9	2.0	2.3	2.6	3.0	3.5	4.0	4.6	4.7	4.8	4.9	5.1	5.2	5.3	5.5	5.6	0.0
3	Chad	101.4	101.6	101.9	102.2	102.4	102.7	103.0	103.2	103.5	103.9	104.6	105.4	106.5	107.6	108.9	110.2	111.5	0.0
4	Gambia	26.5	29.7	30.5	31.4	32.4	33.3	34.3	35.3	36.3	37.4	38.5	39.6	40.8	42.0	43.0	44.0	44.8	0.0
5	Guinea-Bissau	38.0	33.8	29.8	26.2	23.1	20.3	17.9	15.8	16.1	16.4	16.7	17.0	17.4	17.7	18.1	18.4	18.8	0.0
6	Mali	206.0	214.5	223.4	232.6	242.2	252.2	262.6	273.4	281.7	290.1	298.9	307.9	317.1	327.0	337.1	347.3	357.7	0.0
7	Mauritania	46.7	48.2	47.7	43.7	40.0	36.7	33.6	30.8	28.2	25.5	23.6	21.8	20.1	18.6	17.1	15.8	14.6	0.0
8	Niger	146.3	144.9	143.5	142.7	141.9	141.1	140.3	139.6	138.8	138.0	144.2	150.6	157.4	164.4	172.0	179.8	187.9	0.0
9	Senegal	292.7	150.4	262.2	214.7	175.9	144.0	118.0	96.6	97.0	103.5	109.0	103.8	119.4	107.0	122.2	126.3	130.6	0.0
	West Sahelian Africa	1,119.7	997.6	1,126.6	1,095.0	1,073.9	1,061.7	1,057.0	1,058.9	1,083.5	1,114.8	1,154.3	1,185.4	1,239.3	1,267.3	1,324.8	1,372.7	1,422.5	0.0
10	Djibouti	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.0	154.1	162.5	172.4	0.0
12	Ethiopia	1,360.7	1,437.2	1,518.1	1,603.5	1,693.7	1,788.9	1,889.6	1,995.9	2,108.1	2,226.7	2,352.0	2,462.6	2,578.3	2,579.7	2,730.6	2,891.0	3,061.5	0.0
13	Kenya	1,012.2	1,248.4	1,543.5	1,016.9	1,091.6	971.6	906.7	933.9	884.2	864.7	871.0	878.1	887.7	897.9	904.4	915.3	977.1	0.0
14	Somalia	210.4	227.0	244.8	210.2	180.5	181.5	181.9	181.7	181.2	180.4	179.5	178.6	177.6	177.0	177.2	178.5	181.0	0.0
15	Sudan	605.5	593.2	574.2	555.8	538.0	520.8	504.2	488.1	472.6	457.5	443.0	428.9	415.3	402.1	389.3	377.0	402.0	0.0
	East Sahelian Africa	3,190.3	3,507.3	3,882.3	3,388.1	3,508.7	3,465.0	3,484.6	3,601.9	3,648.6	3,732.0	3,848.2	3,950.9	4,061.8	4,206.7	4,358.7	4,527.5	4,797.2	0.0
16	Benin	116.7	119.4	122.2	125.2	128.3	131.5	134.7	138.0	141.4	144.9	148.3	151.8	155.3	158.8	162.4	165.9	169.6	0.0
17	Côte D'Ivoire	254.1	244.8	235.8	227.0	218.5	210.5	218.7	259.0	307.6	366.2	334.7	349.5	365.0	380.2	396.2	410.9	424.5	0.0
18	Ghana	314.0	324.3	334.9	345.8	357.1	368.7	386.9	406.1	426.4	447.7	470.1	464.5	459.0	453.6	448.2	443.0	450.6	0.0
19	Guinea	387.7	374.3	361.6	349.5	337.9	349.8	362.2	375.0	388.3	402.1	392.6	383.6	375.0	366.7	358.8	371.0	378.8	0.0
20	Liberia	144.0	139.7	135.0	115.4	126.3	132.6	140.4	149.3	157.4	161.9	150.6	134.7	116.6	100.1	88.5	88.6	93.7	0.0
21	Nigeria	6,686.8	6,634.5	6,585.3	6,539.0	6,495.4	6,455.6	6,417.3	6,380.9	6,347.4	6,315.9	6,289.4	6,146.1	6,010.5	5,882.1	5,675.4	5,476.1	6,099.0	0.0
22	Sierra Leone	143.7	144.8	145.9	147.0	148.2	148.3	148.9	150.7	152.5	153.8	154.3	154.1	153.2	152.1	151.6	152.2	154.0	0.0
23	Togo	91.6	94.4	97.4	100.3	103.5	106.7	110.1	113.7	117.4	121.4	125.3	129.4	133.5	137.8	142.1	146.4	150.7	0.0
	West Moist Africa	8,138.8	8,076.1	8,018.0	7,949.1	7,915.3	7,903.9	7,919.4	7,972.8	8,038.3	8,113.8	8,065.5	7,913.7	7,767.9	7,631.9	7,423.2	7,254.1	7,920.9	0.0
24	Burundi	109.5	112.5	115.6	118.9	122.3	125.9	129.8	133.9	138.0	151.0	164.6	178.9	193.9	210.0	227.7	247.7	270.3	0.0
25	Cameroon	457.8	473.8	479.4	492.1	505.1	518.5	532.1	546.1	560.4	575.1	586.6	586.1	591.7	597.3	603.0	608.8	678.2	0.0
26	Central African Rep.	107.4	110.0	112.5	115.1	117.8	120.6	123.5	126.6	129.7	132.8	136.0	139.2	142.3	145.6	148.8	152.0	155.3	0.0
27	Congo, Dem. Rep.	1,224.1	1,249.2	1,275.5	1,302.7	1,264.1	1,227.9	1,194.7	1,165.1	1,140.1	1,121.3	1,111.0	1,233.0	1,377.8	1,553.0	1,769.4	2,031.7	2,303.9	0.0
28	Congo, Rep.	73.8	75.9	78.1	80.4	82.7	85.1	87.6	90.3	93.0	95.8	98.7	101.8	104.9	108.1	111.4	114.7	126.4	0.0
29	Equatorial Guinea	10.6	11.1	12.0	12.8	13.0	12.9	12.6	12.1	11.6	11.0	10.5	11.2	12.0	12.8	13.7	14.8	16.7	0.0
30	Gabon	28.6	29.3	30.1	30.8	31.0	31.2	31.4	31.7	32.0	32.2	32.3	33.5	34.6	35.8	37.1	38.5	43.3	0.0
31	Rwanda	147.7	152.4	157.0	161.7	167.1	173.2	180.6	189.1	196.7	207.1	218.1	229.6	227.0	221.1	219.4	228.4	252.9	0.0
32	Sao Tome and Principe	5.3	5.5	5.6	5.7	5.8	6.0	6.1	6.2	6.4	6.5	6.7	6.9	7.0	7.1	7.4	7.5	8.2	0.0
33	Uganda	744.9	804.6	868.9	938.4	1,013.4	1,094.5	1,135.1	1,178.0	1,223.3	1,271.5	1,322.6	1,377.0	1,434.8	1,367.2	1,311.3	1,259.6	1,218.2	1,186.8
	Central Africa	2,909.8	3,024.3	3,134.6	3,222.2	3,322.2	3,395.8	3,433.6	3,479.1	3,531.0	3,604.4	3,681.2	3,897.1	4,125.9	4,258.1	4,449.1	4,703.6	5,073.5	1,186.8
34	Angola	224.3	227.9	227.8	231.7	235.8	241.8	246.3	251.0	255.9	261.1	266.9	271.8	276.9	282.4	288.1	294.0	300.4	0.0
35	Botswana	60.2	62.1	64.1	66.1	68.2	70.4	72.6	74.9	77.3	79.7	82.3	84.9	87.5	90.3	92.5	94.6	96.7	0.0
36	Malawi	746.0	700.9	659.3	621.4	587.5	557.7	548.2	543.8	543.6	547.0	553.4	554.8	555.7	556.3	557.0	558.0	559.4	0.0
37	Mozambique	762.1	778.0	793.7	808.0	818.9	825.9	827.5	825.3	822.9	825.7	837.2	863.7	891.1	919.4	948.5	978.6	999.9	0.0
38	Namibia	67.1	68.6	70.1	71.6	73.3	75.0	76.7	78.4	80.3	82.2	84.2	86.6	88.6	90.6	92.4	94.4	96.7	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	1,428.6	1,551.2	1,961.2	1,913.2	1,867.7	1,824.6	1,784.0	1,749.0	1,713.0	1,679.9	1,651.5	1,706.1	1,764.2	1,826.1	1,892.1	1,972.9	2,187.5	0.0
41	Zambia	355.1	399.9	396.6	398.7	403.5	409.9	412.6	416.1	420.5	426.6	435.2	436.9	438.6	440.4	442.3	444.3	491.8	0.0
42	Zimbabwe	490.6	525.2	566.0	560.7	555.6	550.8	546.5	542.8	539.7	537.7	537.0	560.4	585.1	611.0	704.0	628.0	673.4	0.0
	Tropical Southern Africa	4,133.9	4,313.7	4,738.7	4,671.3	4,610.5	4,556.1	4,514.5	4,481.2	4,453.3	4,439.9	4,447.7	4,565.2	4,687.8	4,816.4	5,016.8	5,064.8	5,405.9	0.0
43	Comoros	8.8	9.1	9.4	9.7	10.0	10.4	10.7	11.0	11.3	11.7	12.1	12.5	12.9	13.3	13.7	14.1	14.6	0.0
44	Madagascar	229.8	240.6	252.0	264.0	276.9	290.5	304.8	319.8	335.4	351.9	369.1	387.0	405.7	425.1	445.2	466.3	488.2	0.0
45	Mauritius	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7	0.0
46	Reunion	2.4	2.1	1.8	1.6	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.0
47	Seychelles	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
	Insular East Africa	243.0	253.8	265.2	277.2	290.3	304.0	318.4	333.5	349.4	366.1	383.6	401.8	420.8	440.6	461.2	482.6	505.0	0.0
	Total Tropical Africa	19,735.5	20,172.8	21,165.3	20,639.5	20,717.9	20,686.3	20,727.5	20,927.6	21,104.1	21,371.1	21,580.4	21,914.1	22,303.5	22,621.0	23,033.7	23,405.4	25,125.0	1,186.8
48	Algeria	45.8	49.4	53.3	57.5	62.0	66.8	72.1	77.7	83.8	86.1	88.5	90.9	93.3	95.9	98.5	101.2	104.3	0.0
49	Egypt	15.8	18.0	20.4	23.2	26.4	30.0	34.1	38.8	44.1	50.1	56.9	64.7	73.5	83.5	94.9	107.9	122.6	0.0
50	Libyan Arab Jamahiriya	14.8	15.5	16.2	16.9	17.7	18.4	19.1	19.9	20.6	21.3	22.1	22.9	23.7	24.5	25.4	26.3	27.2	0.0
51	Morocco	550.7	551.9	554.2	556.6	558.0	559.4	561.1	562.8	567.5	569.1	569.9	570.5	563.9	554.8	548.4	546.3	544.5	0.0
52	Tunisia	105.9	99.6	94.2	89.5	85.3	87.1	89.3	91.9	94.8	97.9	101.4	105.0	109.0	113.1	117.5	122.0	126.8	131.8
	North Africa																		

Country		Table A.F.NMVOC : NMVOC emissions due to Fuelwood use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	31.2	32.7	34.3	35.9	37.6	39.4	41.3	43.2	45.3	47.4	49.7	52.1	54.7	57.3	60.1	63.1	66.1	0.0
2	Cape Verde	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.0
3	Chad	12.2	12.2	12.2	12.3	12.3	12.3	12.4	12.4	12.4	12.5	12.7	12.8	12.9	13.1	13.2	13.4	0.0	0.0
4	Gambia	3.2	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.0	5.2	5.3	5.4	0.0
5	Guinea-Bissau	4.6	4.1	3.6	3.1	2.8	2.4	2.2	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.3	0.0	0.0
6	Mali	24.7	25.7	26.8	27.9	29.1	30.3	31.5	32.8	33.8	34.8	35.9	36.9	38.1	39.2	40.4	41.7	42.9	0.0
7	Mauritania	5.6	5.8	5.7	5.2	4.8	4.4	4.0	3.7	3.4	3.1	2.8	2.6	2.4	2.2	2.1	1.9	1.8	0.0
8	Niger	17.6	17.4	17.2	17.1	17.0	16.9	16.8	16.7	16.7	16.6	17.3	18.1	18.9	19.7	20.6	21.6	22.5	0.0
9	Senegal	35.1	18.0	31.5	25.8	21.1	17.3	14.2	11.6	11.6	12.4	13.1	12.5	14.3	12.8	14.7	15.2	15.7	0.0
	West Sahelian Africa	134.4	119.7	135.2	131.4	128.9	127.4	126.8	127.1	130.0	133.8	138.5	142.2	148.7	152.1	159.0	164.7	170.7	0.0
10	Djibouti	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	18.5	19.5	20.7	0.0
12	Ethiopia	163.3	172.5	182.2	192.4	203.2	214.7	226.7	239.5	253.0	267.2	282.2	295.5	309.4	309.6	327.7	346.9	367.4	0.0
13	Kenya	121.5	149.8	185.2	122.0	131.0	116.6	108.8	112.1	106.1	103.8	104.5	105.4	106.5	107.8	108.5	109.8	117.2	0.0
14	Somalia	25.3	27.2	29.4	25.2	21.7	21.8	21.8	21.8	21.7	21.6	21.5	21.4	21.3	21.2	21.3	21.4	21.7	0.0
15	Sudan	72.7	71.2	68.9	66.7	64.6	62.5	60.5	58.6	56.7	54.9	53.2	51.5	49.8	48.3	46.7	45.2	48.2	0.0
	East Sahelian Africa	382.8	420.9	465.9	406.6	420.7	415.8	418.1	432.2	437.8	447.8	461.8	474.1	487.4	504.8	523.0	543.3	575.7	0.0
16	Benin	14.0	14.3	14.7	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.1	19.5	19.9	20.3	0.0
17	Côte D'Ivoire	30.5	29.4	28.3	27.2	26.2	25.3	26.2	31.1	36.9	43.9	40.2	41.9	43.8	45.7	47.5	49.3	50.9	0.0
18	Ghana	37.7	38.9	40.2	41.5	42.8	44.2	46.4	48.7	51.2	53.7	56.4	55.7	55.1	54.4	53.8	53.2	54.1	0.0
19	Guinea	46.5	44.9	43.4	41.9	40.5	42.0	43.5	45.0	46.6	48.2	47.1	46.0	45.0	44.0	43.1	44.5	45.5	0.0
20	Liberia	17.3	16.8	16.2	13.9	15.2	15.9	16.9	17.9	18.9	19.4	18.1	16.2	14.0	12.0	10.6	10.6	11.2	0.0
21	Nigeria	802.4	796.1	790.2	784.7	779.5	774.7	770.1	765.7	761.7	757.9	754.7	737.5	721.3	705.8	681.1	657.1	731.9	0.0
22	Sierra Leone	17.2	17.4	17.5	17.6	17.8	17.8	17.9	18.1	18.3	18.5	18.5	18.5	18.4	18.3	18.2	18.3	18.5	0.0
23	Togo	11.0	11.3	11.7	12.0	12.4	12.8	13.2	13.6	14.1	14.6	15.0	15.5	16.0	16.5	17.0	17.6	18.1	0.0
	West Moist Africa	976.7	969.1	962.2	953.9	949.8	948.5	950.3	956.7	964.6	973.7	967.9	949.6	932.2	915.8	890.8	870.5	950.5	0.0
24	Burundi	13.1	13.5	13.9	14.3	14.7	15.1	15.6	16.1	16.6	18.1	19.8	21.5	23.3	25.2	27.3	29.7	32.4	0.0
25	Cameroon	54.9	56.9	57.5	59.1	60.6	62.2	63.9	65.5	67.3	69.0	69.7	70.3	71.0	71.7	72.4	73.1	81.4	0.0
26	Central African Rep.	12.9	13.2	13.5	13.8	14.1	14.5	14.8	15.2	15.6	15.9	16.3	16.7	17.1	17.5	17.9	18.2	18.6	0.0
27	Congo, Dem. Rep.	146.9	149.9	153.1	156.3	151.7	147.4	143.4	139.8	136.8	134.6	133.3	148.0	165.3	186.4	212.3	243.8	276.5	0.0
28	Congo, Rep.	8.9	9.1	9.4	9.6	9.9	10.2	10.5	10.8	11.2	11.5	11.8	12.2	12.6	13.0	13.4	13.8	15.2	0.0
29	Equatorial Guinea	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.5	1.4	1.3	1.3	1.3	1.4	1.5	1.6	1.8	2.0	0.0
30	Gabon	3.4	3.5	3.6	3.7	3.7	3.7	3.8	3.8	3.8	3.9	3.9	4.0	4.2	4.3	4.5	4.6	5.2	0.0
31	Rwanda	17.7	18.3	18.8	19.4	20.1	20.8	21.7	22.7	23.6	24.8	26.2	27.6	27.2	26.5	26.3	27.4	30.4	0.0
32	Sao Tome and Principe	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.0	0.0
33	Uganda	89.4	96.5	104.3	112.6	121.6	131.3	136.2	141.4	146.8	152.6	158.7	165.2	172.2	164.1	157.4	151.1	146.2	142.4
	Central Africa	349.2	362.9	376.1	391.0	398.7	407.5	412.0	417.5	423.7	432.5	441.7	467.7	495.1	511.0	533.9	564.4	608.8	142.4
34	Angola	26.9	27.4	27.3	27.8	28.3	29.0	29.6	30.1	30.7	31.3	32.0	32.6	33.2	33.9	34.6	35.3	36.1	0.0
35	Botswana	7.2	7.5	7.7	7.9	8.2	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.3	11.6	0.0
36	Malawi	89.5	84.1	79.1	74.6	70.5	66.9	65.8	65.3	65.2	65.6	66.4	66.6	66.7	66.8	66.8	67.0	67.1	0.0
37	Mozambique	91.4	93.4	95.2	97.0	98.3	99.1	99.3	99.0	98.8	99.1	100.5	103.6	106.9	110.3	113.8	117.4	120.0	0.0
38	Namibia	8.1	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.9	10.1	10.4	10.6	10.9	11.1	11.3	11.6	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	171.4	186.1	235.3	229.6	224.1	219.0	214.1	209.9	205.6	201.6	198.2	204.7	211.7	219.1	227.1	236.8	262.5	0.0
41	Zambia	42.6	48.0	47.6	47.8	48.4	49.2	49.5	49.9	50.5	51.2	52.2	52.4	52.6	52.9	53.1	53.3	59.0	0.0
42	Zimbabwe	58.9	63.0	67.9	67.3	66.7	66.1	65.6	65.1	64.8	64.5	64.4	67.3	70.2	73.3	84.5	75.4	80.8	0.0
	Tropical Southern Africa	496.1	517.6	568.6	560.6	553.3	546.7	541.7	537.7	534.4	532.8	533.7	547.8	562.5	578.0	602.0	607.8	648.7	0.0
43	Comoros	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.7	0.0
44	Madagascar	27.6	28.9	30.2	31.7	33.2	34.9	36.6	38.4	40.3	42.2	44.3	46.4	48.7	51.0	53.4	56.0	58.6	0.0
45	Mauritius	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
46	Reunion	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
47	Seychelles	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insular East Africa	29.2	30.5	31.8	33.3	34.8	36.5	38.2	40.0	41.9	43.9	46.0	48.2	50.5	52.9	55.3	57.9	60.6	0.0
	Total Tropical Africa	2,368.3	2,420.7	2,539.8	2,476.7	2,486.1	2,482.4	2,487.3	2,511.3	2,532.5	2,564.5	2,589.6	2,629.7	2,676.4	2,714.5	2,764.0	2,808.6	3,015.0	142.4
48	Algeria	5.5	5.9	6.4	6.9	7.4	8.0	8.6	9.3	10.1	10.3	10.6	10.9	11.2	11.5	11.8	12.1	12.5	0.0
49	Egypt	1.9	2.2	2.5	2.8	3.2	3.6	4.1	4.7	5.3	6.0	6.8	7.8	8.8	10.0	11.4	12.9	14.7	0.0
50	Libyan Arab Jamahiriya	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.9	3.0	3.2	3.3	0.0
51	Morocco	66.1	66.2	66.5	66.8	67.0	67.1	67.3	67.5	68.1	68.3	68.4	68.5	67.7	66.6	65.8	65.6	65.3	0.0
52	Tunisia	12.7	12.0	11.3	10.7	10.2	10.5	10.7	11.0	11.4	11.8	12.2	12.6	13.1	13.6	14.1	14.6	15.2	15.8
	North Africa	88.0	88.1	88.6	89.2	89.9	91.4	93.1	94.9	97.3	98.9	100.6	102.5	103.6	104.6	106.2	108.4	111.1	15.8
53	Lesotho	5.9	6.1	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.9	9.1	0.0
54	South Africa	155.9	159.1	162.4	166.1	168.6	171.7	174.7	178.1	181.6	193.5	197.0	200.2	204.6	208.2	172.0	149.2	127.2	96.3
55	Swaziland	5.7	5.8	5.9	6.2	6.3	6.4	6.5	6.6	6.7	6.5	6.6	7.0	7.2	7.5	7.7	7.8	7.9	0.0
	Non tropical Southern A	167	171	175	179	182	185	188	192	196	208	211	215	220	224	188	166		

Country		Table A.C.CO2 : CO2 emissions due to Charcoal use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	63	69	77	85	93	103	114	126	140	155	171	190	210	233	257	285	315	0.0
2	Cape Verde	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0.0
3	Chad	242	267	294	325	357	393	431	472	517	568	625	689	760	841	930	1,028	1,138	0.0
4	Gambia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5	Guinea-Bissau	92	106	120	136	155	176	200	228	260	297	341	390	447	512	587	672	770	0.0
6	Mali	344	362	382	404	427	451	477	505	534	566	599	634	671	711	753	797	844	0.0
7	Mauritania	891	923	957	993	1,029	1,067	1,106	1,147	1,189	1,234	1,280	1,327	1,377	1,429	1,483	1,540	1,599	0.0
8	Niger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
9	Senegal	0	1,425	1,508	1,595	1,687	1,785	1,888	1,997	2,193	2,409	2,645	2,905	2,963	3,023	3,086	3,148	3,212	0.0
	West Sahelian Africa	1,632.3	3,152.5	3,338.6	3,537.1	3,749.2	3,975.6	4,216.8	4,475.2	4,834.6	5,228.8	5,660.9	6,134.6	6,428.7	6,748.0	7,097.4	7,472.2	7,880.1	0.0
10	Djibouti	8	9	10	10	11	12	13	13	14	15	16	16	17	17	18	18	19	0.0
11	Eritrea	0	0	0	0	0	0	0	0	0	0	0	0	0	123	126	129	134	0.0
12	Ethiopia	1,582	1,620	1,659	1,699	1,742	1,789	1,841	1,897	1,957	2,019	2,083	2,148	2,215	2,161	2,230	2,303	2,378	0.0
13	Kenya	7,453	7,768	8,117	8,506	7,857	8,034	8,909	10,461	11,166	11,656	11,662	11,668	11,674	11,680	11,686	11,692	12,427	0.0
14	Somalia	582	628	677	731	789	834	880	925	971	1,017	1,066	1,115	1,168	1,224	1,290	1,368	1,460	0.0
15	Sudan	23,707	23,569	23,299	23,032	22,769	22,509	22,253	22,000	21,750	21,504	21,261	21,023	20,787	20,556	20,329	20,107	21,441	0.0
	East Sahelian Africa	33,331.4	33,593.8	33,761.1	33,978.0	33,168.1	33,178.7	33,895.2	35,297.2	35,858.3	36,210.9	36,087.1	35,970.0	35,860.3	35,761.6	35,679.4	35,617.2	37,858.8	0.0
16	Benin	151	148	145	142	140	137	135	132	130	127	125	122	120	117	115	112	110	0.0
17	Côte D'Ivoire	1,476	1,694	1,956	2,271	2,652	3,114	3,450	3,872	4,353	4,903	5,531	6,255	7,084	8,027	9,081	10,251	11,539	0.0
18	Ghana	3,627	3,730	3,837	3,947	4,060	4,176	4,123	4,071	4,019	3,969	3,919	3,870	3,821	3,774	3,727	3,681	3,629	0.0
19	Guinea	583	613	646	682	720	733	746	759	772	787	852	924	1,003	1,088	1,180	1,262	1,333	0.0
20	Liberia	746	797	850	908	972	1,001	1,040	1,084	1,121	1,131	1,172	1,179	1,155	1,122	1,112	1,155	1,265	0.0
21	Nigeria	2,513	2,678	2,862	3,068	3,301	3,489	3,597	3,733	3,882	4,041	4,324	4,642	5,001	5,403	5,852	6,354	7,099	0.0
22	Sierra Leone	525	519	522	522	528	538	549	564	580	596	611	623	634	645	659	678	704	0.0
23	Togo	435	458	484	510	539	568	600	635	672	711	751	794	839	886	935	987	1,040	0.0
	West Moist Africa	10,056.1	10,638.7	11,299.4	12,049.8	12,911.9	13,755.7	14,238.7	14,848.4	15,529.5	16,264.2	17,284.2	18,408.9	19,656.4	21,061.5	22,661.6	24,480.0	26,718.6	0.0
24	Burundi	303	314	326	337	350	364	378	393	408	411	424	451	464	476	489	505	522	0.0
25	Cameroon	339	358	377	397	419	442	465	490	517	545	574	604	637	671	707	744	790	0.0
26	Central African Rep.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27	Congo, Dem. Rep.	3,932	4,368	4,856	5,401	6,011	6,691	7,447	8,290	9,228	10,274	11,438	8,082	5,721	4,061	2,893	2,072	2,329	0.0
28	Congo, Rep.	72	75	78	81	84	87	90	94	97	101	105	109	113	118	122	127	136	0.0
29	Equatorial Guinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30	Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
31	Rwanda	255	266	276	286	298	312	328	346	363	362	362	361	339	313	294	290	305	0.0
32	Sao Tome and Principe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
33	Uganda	2,088	2,192	2,302	2,419	2,544	2,676	2,817	2,966	3,124	3,293	3,472	3,498	3,524	3,550	3,577	3,902	4,263	3,631.1
	Central Africa	6,989.6	7,572.4	8,214.7	8,922.6	9,706.0	10,570.3	11,525.0	12,578.9	13,738.3	14,986.3	16,375.8	13,106.2	10,797.4	9,188.1	8,082.1	7,639.8	8,345.3	3,631.1
34	Angola	1,427	1,636	1,877	2,154	2,472	2,837	3,257	3,739	4,293	4,930	5,661	6,023	6,408	6,817	7,262	7,739	8,254	0.0
35	Botswana	205	212	219	227	235	243	252	261	270	278	287	296	304	312	320	327	335	0.0
36	Malawi	1,859	1,912	1,962	2,017	2,087	2,178	2,297	2,438	2,584	2,711	2,805	2,858	2,877	2,878	2,883	2,908	2,960	0.0
37	Mozambique	3,107	3,116	3,122	3,121	3,107	3,077	3,028	2,966	2,905	2,863	2,850	2,893	2,936	2,979	3,023	3,068	3,032	0.0
38	Namibia	48	50	51	52	54	55	57	59	60	62	64	65	67	69	70	72	74	0.0
39	Saint Helena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
40	Tanzania, United Rep.*	2,538	2,616	2,695	2,777	2,863	2,951	3,042	3,136	3,234	3,335	3,440	3,498	3,556	3,616	3,676	3,736	4,625	0.0
41	Zambia	6,962	6,808	6,636	6,456	6,282	6,119	5,963	5,812	5,665	5,522	5,383	5,260	5,140	5,023	4,909	4,798	5,320	0.0
42	Zimbabwe	57	59	61	63	65	67	70	72	74	77	79	81	84	86	88	90	92	0.0
	Tropical Southern Africa	16,204.3	16,407.4	16,622.8	16,867.7	17,164.0	17,528.5	17,966.1	18,482.9	19,084.9	19,778.4	20,570.2	20,973.3	21,371.0	21,778.9	22,229.9	22,738.8	24,692.4	0.0
43	Comoros	388	401	414	428	441	454	468	483	497	514	530	546	564	583	601	620	639	0.0
44	Madagascar	1,148	1,267	1,398	1,543	1,706	1,885	2,084	2,303	2,546	2,814	3,110	3,436	3,794	4,189	4,623	5,101	5,627	0.0
45	Mauritius	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	0.0
46	Reunion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
47	Seychelles	101	103	103	103	103	104	106	107	109	111	112	114	114	115	115	117	119	0.0
	Insular East Africa	1,647.9	1,781.5	1,925.9	2,084.2	2,260.0	2,454.5	2,668.9	2,905.3	3,163.7	3,449.8	3,763.6	4,107.2	4,484.1	4,898.7	5,351.1	5,850.2	6,397.6	0.0
	Total Tropical Africa	69,861.6	73,146.3	75,162.5	77,439.3	78,959.1	81,463.3	84,510.8	88,587.9	92,209.3	95,918.4	99,741.8	98,700.2	98,597.9	99,436.8	101,101.6	103,798.3	111,892.7	3,631.1
48	Algeria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
49	Egypt	0	0	0	0	0	0	0	0	0	0	0	0	554	418	172	82	0	0.0
50	Libyan Arab Jamahiriya	0	0	0	0	0	0	0	0	0	0	0	0	28	21	9	4	0	0.0
51	Morocco	988	1,069	1,155	1,250	1,352	1,463	1,584	1,715	1,857	2,011	2,179	2,358	2,552	2,761	2,987	3,231	3,494	0.0
52	Tunisia	1,604	1,548	1,494	1,442	1,392	1,388	1,384	1,380	1,376	1,372	1,368	1,365	1,361	1,357	1,353	1,349	1,345	1,341.7
	North Africa	2,591.5	2,616.3	2,649.3	2,691.7	2,744.3	2,851.4	2,968.0	3,094.9	3,233.1	3,383.4	3,547.1	3,722.5	4,493.8	4,556.4	4,521.4	4,666.2	4,839.6	1,341.7
53	Lesotho	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
54	South Africa	5,731	5,879	6,030	6,183	6,337	6,492	6,648	6,803	6,960	7,120	7,283	7,449	7,619	7,792	7,968	8,147	8,329	8,514.8
55	Swaziland	67	69	71	74	76	78	80	82	85	87	89	92	94	182	187	192	198	0.0
	Non tropical Southern Africa	5,798.7	5,947.9	6,100.9	6,256.3	6,413.1	6,570.3	6,727.8	6,885.8	7,045.0	7,206.9	7,372.2	7,540.9	7,713.3	7,973.3	8,154.8	8,339.5	8,527.1	8,514.8
	Total Non-tropical Africa	8,390.2	8,564.1	8,750.2	8,948.1	9,157.4	9,												

	Country	Table A.C.CH4 : CH4 emissions due to Charcoal use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.3	0.0	
2	Cape Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	Chad	1.0	1.1	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.3	2.5	2.8	3.1	3.4	3.8	4.2	4.6	
4	Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	Guinea-Bissau	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.8	2.1	2.4	2.7	3.1	
6	Mali	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.4	
7	Mauritania	3.6	3.8	3.9	4.0	4.2	4.3	4.5	4.7	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.3	6.5	
8	Niger	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	Senegal	0.0	5.8	6.1	6.5	6.9	7.3	7.7	8.1	8.9	9.8	10.8	11.8	12.1	12.3	12.6	12.8	13.1	
	West Sahelian Africa	6.6	12.8	13.6	14.4	15.3	16.2	17.2	18.2	19.7	21.3	23.0	25.0	26.2	27.5	28.9	30.4	32.1	
10	Djibouti	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	
12	Ethiopia	6.4	6.6	6.8	6.9	7.1	7.3	7.5	7.7	8.0	8.2	8.5	8.7	9.0	8.8	9.1	9.4	9.7	
13	Kenya	30.3	31.6	33.0	34.6	32.0	32.7	36.3	42.6	45.5	47.5	47.5	47.5	47.5	47.6	47.6	47.6	50.6	
14	Somalia	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.5	4.8	5.0	5.3	5.6	5.9	
15	Sudan	96.5	96.0	94.9	93.8	92.7	91.6	90.6	89.6	88.6	87.6	86.6	85.6	84.6	83.7	82.8	81.9	87.3	
	East Sahelian Africa	135.7	136.8	137.5	138.3	135.0	135.1	138.0	143.7	146.0	147.4	146.9	146.5	146.0	145.6	145.3	145.0	154.1	
16	Benin	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.0	
17	Côte D'Ivoire	6.0	6.9	8.0	9.2	10.8	12.7	14.0	15.8	17.7	20.0	22.5	25.5	28.8	32.7	37.0	41.7	47.0	
18	Ghana	14.8	15.2	15.6	16.1	16.5	17.0	16.8	16.6	16.4	16.2	16.0	15.8	15.6	15.4	15.2	15.0	14.8	
19	Guinea	2.4	2.5	2.6	2.8	2.9	3.0	3.0	3.1	3.1	3.2	3.5	3.8	4.1	4.4	4.8	5.1	5.4	
20	Liberia	3.0	3.2	3.5	3.7	4.0	4.1	4.2	4.4	4.6	4.6	4.8	4.8	4.7	4.6	4.5	4.7	5.2	
21	Nigeria	10.2	10.9	11.7	12.5	13.4	14.2	14.6	15.2	15.8	16.5	17.6	18.9	20.4	22.0	23.8	25.9	28.9	
22	Sierra Leone	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.8	2.9	
23	Togo	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.8	4.0	4.2	
	West Moist Africa	40.9	43.3	46.0	49.1	52.6	56.0	58.0	60.5	63.2	66.2	70.4	75.0	80.0	85.8	92.3	99.7	108.8	
24	Burundi	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.7	1.7	1.8	1.9	1.9	2.0	2.1	2.1	
25	Cameroon	1.4	1.5	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.9	3.0	3.2	
26	Central African Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	Congo, Dem. Rep.	16.0	17.8	19.8	22.0	24.5	27.2	30.3	33.8	37.6	41.8	46.6	52.9	59.3	66.5	74.8	84.1	95.0	
28	Congo, Rep.	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	
29	Equatorial Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	Gabon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	Rwanda	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.5	1.5	1.4	1.3	1.2	1.2	1.2	
32	Sao Tome and Principe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	Uganda	8.5	8.9	9.4	9.9	10.4	10.9	11.5	12.1	12.7	13.4	14.1	14.2	14.3	14.5	14.6	15.9	17.4	
	Central Africa	28.5	30.8	33.4	36.3	39.5	43.0	46.9	51.2	55.9	61.0	66.7	73.4	80.0	87.8	96.6	106.6	118.8	
34	Angola	5.8	6.7	7.6	8.8	10.1	11.6	13.3	15.2	17.5	20.1	23.0	24.5	26.1	27.8	29.6	31.5	33.6	
35	Botswana	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	
36	Malawi	7.6	7.8	8.0	8.2	8.5	8.9	9.4	9.9	10.5	11.0	11.4	11.6	11.7	11.7	11.8	12.1	0.0	
37	Mozambique	12.7	12.7	12.7	12.7	12.7	12.5	12.3	12.1	11.8	11.7	11.6	11.8	12.0	12.1	12.3	12.5	12.3	
38	Namibia	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	Tanzania, United Rep.*	10.3	10.6	11.0	11.3	11.7	12.0	12.4	12.8	13.2	13.6	14.0	14.2	14.5	14.7	15.0	15.2	18.8	
41	Zambia	28.3	27.7	27.0	26.3	25.6	24.9	24.3	23.7	23.1	22.5	21.9	21.4	20.9	20.4	20.0	19.5	21.7	
42	Zimbabwe	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	
	Tropical Southern Africa	66.0	66.8	67.7	68.7	69.9	71.4	73.1	75.3	77.7	80.5	83.8	85.4	87.0	88.7	90.5	92.6	100.5	
43	Comoros	1.6	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.6	
44	Madagascar	4.7	5.2	5.7	6.3	6.9	7.7	8.5	9.4	10.4	11.5	12.7	14.0	15.4	17.1	18.8	20.8	22.9	
45	Mauritius	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47	Seychelles	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Insular East Africa	6.7	7.3	7.8	8.5	9.2	10.0	10.9	11.8	12.9	14.0	15.3	16.7	18.3	19.9	21.8	23.8	26.0	
	Total Tropical Africa	284.4	297.8	306.0	315.3	321.5	331.7	344.1	360.7	375.4	390.5	406.1	401.9	401.4	404.9	411.6	422.6	455.6	
48	Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
49	Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.7	0.7	0.3	0.0	
50	Libyan Arab Jamahiriya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	
51	Morocco	4.0	4.4	4.7	5.1	5.5	6.0	6.4	7.0	7.6	8.2	8.9	9.6	10.4	11.2	12.2	13.2	14.2	
52	Tunisia	6.5	6.3	6.1	5.9	5.7	5.7	5.6	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.5	5.5	5.5	
	North Africa	10.6	10.7	10.8	11.0	11.2	11.6	12.1	12.6	13.2	13.8	14.4	15.2	18.3	18.6	18.4	19.0	19.7	
53	Lesotho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
54	South Africa	23.3	23.9	24.5	25.2	25.8	26.4	27.1	27.7	28.3	29.0	29.7	30.3	31.0	31.7	32.4	33.2	33.9	
55	Swaziland	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.7	0.8	0.8	0.8	
	Non tropical Southern Africa	23.6	24.2	24.8	25.5	26.1	26.8	27.4	28.0	28.7	29.3	30.0	30.7	31.4	32.5	33.2	34.0	34.7	
	Total Non-tropical Africa	34.2	34.9	35.6	36.4	37.3	38.4	39.5	40.6	41.8	43.1	44.5	45.9	49.7	51.0	51.6	53.0	54.4	
	Total Africa	319	333	342	352	359	370	384	401	417	434	451	448	451	456	463	476	510	

Country		Table A.C.N2O : N2O emissions due to Charcoal use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	Cape Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	Chad	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	Guinea-Bissau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	Mali	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	Mauritania	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	Niger	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	Senegal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	West Sahelian Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	Djibouti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	Ethiopia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	Kenya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	Somalia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	Sudan	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	East Sahelian Africa	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
16	Benin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	Côte D'Ivoire	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	Ghana	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	Liberia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	Nigeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	Sierra Leone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	Togo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	West Moist Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
24	Burundi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	Cameroon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	Central African Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	Congo, Dem. Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	Congo, Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	Equatorial Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	Gabon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	Rwanda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32	Sao Tome and Principe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	Uganda	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Central Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34	Angola	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35	Botswana	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36	Malawi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37	Mozambique	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
38	Namibia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	Tanzania, United Rep.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
41	Zambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
42	Zimbabwe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tropical Southern Africa	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
43	Comoros	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	Madagascar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45	Mauritius	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47	Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Insular East Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Total Tropical Africa	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.0	
48	Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
49	Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50	Libyan Arab Jamahiriya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
51	Morocco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
52	Tunisia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	North Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
53	Lesotho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
54	South Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
55	Swaziland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Non tropical Southern A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Total Non-tropical Africa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Total Africa	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	

Country		Table A.C.NOx : NOx emissions due to Charcoal use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
2	Cape Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	Chad	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.0	
4	Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	Guinea-Bissau	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.0	
6	Mali	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.0	
7	Mauritania	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.0	
8	Niger	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	Senegal	0.0	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.2	1.2	0.0	
	West Sahelian Africa	0.6	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.8	2.9	
10	Djibouti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	Ethiopia	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.0	
13	Kenya	2.8	2.9	3.0	3.2	2.9	3.0	3.3	3.9	4.2	4.4	4.4	4.4	4.4	4.4	4.4	4.6	0.0	
14	Somalia	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.0	
15	Sudan	8.8	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0	7.9	7.8	7.8	7.7	7.6	7.5	0.0	
	East Sahelian Africa	12.4	12.5	12.6	12.7	12.4	12.4	12.7	13.2	13.4	13.5	13.4	13.4	13.3	13.3	13.3	14.1	0.0	
16	Benin	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	Côte D'Ivoire	0.6	0.6	0.7	0.8	1.0	1.2	1.3	1.4	1.6	1.8	2.1	2.3	2.6	3.0	3.4	3.8	4.3	
18	Ghana	1.4	1.4	1.4	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	0.0	
19	Guinea	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.0	
20	Liberia	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0	
21	Nigeria	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.9	2.0	2.2	2.4	2.6	
22	Sierra Leone	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.0	
23	Togo	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.0	
	West Moist Africa	3.8	4.0	4.2	4.5	4.8	5.1	5.3	5.5	5.8	6.1	6.5	6.9	7.3	7.9	8.5	9.1	10.0	
24	Burundi	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	
25	Cameroon	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.0	
26	Central African Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	Congo, Dem. Rep.	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.4	3.8	4.3	3.0	2.1	1.5	1.1	0.8	0.9	
28	Congo, Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
29	Equatorial Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	Gabon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	Rwanda	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
32	Sao Tome and Principe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	Uganda	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.5	1.6	1.4	
	Central Africa	2.6	2.8	3.1	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.1	4.9	4.0	3.4	3.0	2.9	3.1	
34	Angola	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.8	2.1	2.2	2.4	2.5	2.7	2.9	3.1	
35	Botswana	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
36	Malawi	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	0.0	
37	Mozambique	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	
38	Namibia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	Tanzania, United Rep.*	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.7	0.0	
41	Zambia	2.6	2.5	2.5	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.8	1.8	0.0	
42	Zimbabwe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tropical Southern Africa	6.0	6.1	6.2	6.3	6.4	6.5	6.7	6.9	7.1	7.4	7.7	7.8	8.0	8.1	8.3	8.5	9.2	
43	Comoros	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	
44	Madagascar	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.1	
45	Mauritius	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47	Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Insular East Africa	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0	2.2	2.4	
	Total Tropical Africa	26.1	27.3	28.1	28.9	29.5	30.4	31.5	33.1	34.4	35.8	37.2	36.8	36.8	37.1	37.7	38.7	41.8	
48	Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
49	Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.0	
50	Libyan Arab Jamahiriya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
51	Morocco	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	0.0	
52	Tunisia	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	North Africa	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.7	1.7	1.7	1.8	0.5	
53	Lesotho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
54	South Africa	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	3.0	3.1	3.2	
55	Swaziland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	
	Non tropical Southern Africa	2.2	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.6	2.7	2.8	2.8	2.9	3.0	3.0	3.1	3.2	
	Total Non-tropical Africa	3.1	3.2	3.3	3.3	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.2	4.6	4.7	4.7	4.9	5.0	
	Total Africa	29.2	30.5	31.3	32.2	32.9	33.9	35.2	36.8	38.3	39.8	41.3	41.0	41.4	41.8	42.5	43.6	5.0	

Country		Table A.C.CO : CO emissions due to Charcoal use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	3.0	3.3	3.6	4.0	4.4	4.9	5.4	6.0	6.6	7.3	8.1	9.0	10.0	11.0	12.2	13.5	15.0	0.0
2	Cape Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
3	Chad	11.5	12.7	14.0	15.4	17.0	18.7	20.5	22.4	24.6	27.0	29.7	32.7	36.1	39.9	44.2	48.9	54.1	0.0
4	Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Guinea-Bissau	4.4	5.0	5.7	6.5	7.3	8.3	9.5	10.8	12.4	14.1	16.2	18.5	21.2	24.3	27.9	31.9	36.6	0.0
6	Mali	16.3	17.2	18.2	19.2	20.3	21.4	22.7	24.0	25.4	26.9	28.4	30.1	31.9	33.8	35.8	37.9	40.1	0.0
7	Mauritania	42.3	43.8	45.5	47.1	48.9	50.7	52.5	54.5	56.5	58.6	60.8	63.0	65.4	67.9	70.5	73.2	76.0	0.0
8	Niger	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Senegal	0.0	67.7	71.6	75.8	80.1	84.8	89.7	94.9	104.2	114.4	125.6	138.0	140.8	143.6	146.6	149.6	152.6	0.0
	West Sahelian Africa	77.5	149.7	158.6	168.0	178.1	188.8	200.3	212.6	229.6	248.4	268.9	291.4	305.4	320.5	337.1	354.9	374.3	0.0
10	Djibouti	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	6.0	6.1	6.4	0.0
12	Ethiopia	75.1	76.9	78.8	80.7	82.8	85.0	87.5	90.1	93.0	95.9	98.9	102.0	105.2	102.6	105.9	109.4	112.9	0.0
13	Kenya	354.0	369.0	385.6	404.0	373.2	381.6	423.2	496.9	530.4	553.7	553.9	554.2	554.5	554.8	555.1	555.4	590.3	0.0
14	Somalia	27.6	29.8	32.2	34.7	37.5	39.6	41.8	43.9	46.1	48.3	50.6	53.0	55.5	58.2	61.3	65.0	69.3	0.0
15	Sudan	1,126.1	1,119.6	1,106.7	1,094.1	1,081.6	1,069.2	1,057.0	1,045.0	1,033.2	1,021.5	1,009.9	998.6	987.4	976.4	965.7	955.1	1,018.5	0.0
	East Sahelian Africa	1,583.3	1,595.8	1,603.7	1,614.0	1,575.5	1,576.0	1,610.1	1,676.7	1,703.3	1,720.1	1,714.2	1,708.6	1,703.4	1,698.7	1,694.8	1,691.9	1,798.3	0.0
16	Benin	7.2	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.2	0.0
17	Côte D'Ivoire	70.1	80.4	92.9	107.9	126.0	147.9	163.9	183.9	206.8	232.9	262.7	297.1	336.5	381.3	431.4	486.9	548.1	0.0
18	Ghana	172.3	177.2	182.3	187.5	192.8	198.4	195.8	193.4	190.9	188.5	186.1	183.8	181.5	179.3	177.0	174.9	172.4	0.0
19	Guinea	27.7	29.1	30.7	32.4	34.2	34.8	35.4	36.0	36.7	37.4	40.5	43.9	47.6	51.7	56.1	60.0	63.3	0.0
20	Liberia	35.4	37.9	40.4	43.1	46.2	47.6	49.4	51.5	53.2	53.7	55.7	56.0	54.9	53.3	52.8	54.9	60.1	0.0
21	Nigeria	119.4	127.2	135.9	145.7	156.8	165.7	170.9	177.3	184.4	191.9	205.4	220.5	237.5	256.6	278.0	301.8	337.2	0.0
22	Sierra Leone	24.9	24.7	24.7	24.8	25.1	25.5	26.1	26.8	27.6	28.3	29.0	29.6	30.1	30.6	31.3	32.2	33.5	0.0
23	Togo	20.6	21.8	23.0	24.2	25.6	27.0	28.5	30.1	31.9	33.8	35.7	37.7	39.8	42.1	44.4	46.9	49.4	0.0
	West Moist Africa	477.7	505.4	536.7	572.4	613.3	653.4	676.4	705.3	737.7	772.6	821.0	874.4	933.7	1,000.5	1,076.5	1,162.8	1,269.2	0.0
24	Burundi	14.4	14.9	15.5	16.0	16.6	17.3	18.0	18.7	19.4	19.5	20.2	21.4	22.0	22.6	23.2	24.0	24.8	0.0
25	Cameroon	16.1	17.0	17.9	18.9	19.9	21.0	22.1	23.3	24.6	25.9	27.3	28.7	30.2	31.9	33.6	35.4	37.5	0.0
26	Central African Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	Congo, Dem. Rep.	186.8	207.5	230.7	256.6	285.5	317.8	353.7	393.8	438.4	488.0	543.3	383.9	271.8	192.9	137.4	98.4	110.6	0.0
28	Congo, Rep.	3.4	3.6	3.7	3.8	4.0	4.1	4.3	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.5	0.0
29	Equatorial Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	Gabon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	Rwanda	12.1	12.6	13.1	13.6	14.2	14.8	15.6	16.5	17.2	17.2	17.2	17.2	16.1	14.9	14.0	13.8	14.5	0.0
32	Sao Tome and Principe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	Uganda	99.2	104.1	109.4	114.9	120.8	127.1	133.8	140.9	148.4	156.4	164.9	166.2	167.4	168.6	169.9	185.3	202.5	172.5
	Central Africa	332.0	359.7	390.2	423.8	461.0	502.1	547.5	597.5	652.6	711.9	777.9	822.6	874.4	933.7	1,000.5	1,076.5	1,162.8	1,269.2
34	Angola	67.8	77.7	89.2	102.3	117.4	134.8	154.7	177.6	203.9	234.2	268.9	286.1	304.4	323.8	344.9	367.6	392.1	0.0
35	Botswana	9.7	10.1	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	15.9	0.0
36	Malawi	88.3	90.8	93.2	95.8	99.1	103.5	109.1	115.8	122.7	128.8	133.2	135.8	136.7	136.7	136.9	138.2	140.6	0.0
37	Mozambique	147.6	148.0	148.3	148.3	147.6	146.2	143.9	140.9	138.0	136.0	135.4	137.4	139.4	141.5	143.6	145.7	144.0	0.0
38	Namibia	2.3	2.4	2.4	2.5	2.6	2.6	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.3	3.3	3.4	3.5	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	120.6	124.2	128.0	131.9	136.0	140.2	144.5	149.0	153.6	158.4	163.4	166.1	168.9	171.8	174.6	177.5	219.7	0.0
41	Zambia	330.7	323.4	315.2	306.7	298.4	290.7	283.3	276.1	269.1	262.3	255.7	249.9	244.1	238.6	233.2	227.9	252.7	0.0
42	Zimbabwe	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.8	3.9	4.0	4.1	4.2	4.3	4.4	0.0
	Tropical Southern Africa	769.7	779.4	789.6	801.2	815.3	832.6	853.4	878.0	906.6	939.5	977.1	996.3	1,015.1	1,034.5	1,055.9	1,080.1	1,172.9	0.0
43	Comoros	18.4	19.1	19.7	20.3	20.9	21.6	22.2	23.0	23.6	24.4	25.2	25.9	26.8	27.7	28.5	29.5	30.4	0.0
44	Madagascar	54.5	60.2	66.4	73.3	81.0	89.6	99.0	109.4	120.9	133.7	147.7	163.2	180.2	199.0	219.6	242.3	267.3	0.0
45	Mauritius	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	Seychelles	4.8	4.9	4.9	4.9	4.9	4.9	5.0	5.1	5.2	5.3	5.3	5.4	5.4	5.5	5.5	5.6	5.6	0.0
	Insular East Africa	78.3	84.6	91.5	99.0	107.4	116.6	126.8	138.0	150.3	163.9	178.8	195.1	213.0	232.7	254.2	277.9	303.9	0.0
	Total Tropical Africa	3,318.5	3,474.5	3,570.3	3,678.5	3,750.7	3,869.6	4,014.4	4,208.0	4,380.1	4,556.2	4,737.9	4,688.4	4,683.5	4,723.4	4,802.5	4,930.6	5,315.1	172.5
48	Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	19.8	8.2	3.9	0.0
50	Libyan Arab Jamahiriya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.0	0.4	0.2	0.0	0.0
51	Morocco	46.9	50.8	54.9	59.4	64.2	69.5	75.2	81.4	88.2	95.5	103.5	112.0	121.2	131.2	141.9	153.5	166.0	0.0
52	Tunisia	76.2	73.5	71.0	68.5	66.1	65.9	65.8	65.6	65.4	65.2	65.0	64.8	64.6	64.4	64.3	64.1	63.9	63.7
	North Africa	123.1	124.3	125.8	127.9	130.4	135.4	141.0	147.0	153.6	160.7	168.5	176.8	213.5	216.4	214.8	221.7	229.9	63.7
53	Lesotho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	South Africa	272.3	279.2	286.4	293.7	301.0	308.4	315.8	323.2	330.6	338.2	345.9	353.8	361.9	370.1	378.5	387.0	395.7	404.5
55	Swaziland	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.7	4.8	4.9	5.0
	Non tropical Southern Africa	275.4	282.5	<															

		Table A.C.CO : NMVOC emissions due to Charcoal use																	
Country		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	0.0
2	Cape Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Chad	1.5	1.6	1.8	2.0	2.2	2.4	2.6	2.9	3.2	3.5	3.8	4.2	4.6	5.1	5.7	6.3	7.0	0.0
4	Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Guinea-Bissau	0.6	0.6	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.8	2.1	2.4	2.7	3.1	3.6	4.1	4.7	0.0
6	Mali	2.1	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.6	4.9	5.2	0.0
7	Mauritania	5.4	5.6	5.8	6.1	6.3	6.5	6.8	7.0	7.3	7.5	7.8	8.1	8.4	8.7	9.1	9.4	9.8	0.0
8	Niger	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Senegal	0.0	8.7	9.2	9.7	10.3	10.9	11.5	12.2	13.4	14.7	16.2	17.7	18.1	18.5	18.8	19.2	19.6	0.0
	West Sahelian Africa	10.0	19.3	20.4	21.6	22.9	24.3	25.8	27.3	29.5	31.9	34.6	37.5	39.3	41.2	43.3	45.6	48.1	0.0
10	Djibouti	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.0
12	Ethiopia	9.7	9.9	10.1	10.4	10.6	10.9	11.2	11.6	12.0	12.3	12.7	13.1	13.5	13.2	13.6	14.1	14.5	0.0
13	Kenya	45.5	47.4	49.6	51.9	48.0	49.1	54.4	63.9	68.2	71.2	71.2	71.3	71.3	71.3	71.4	71.4	75.9	0.0
14	Somalia	3.6	3.8	4.1	4.5	4.8	5.1	5.4	5.7	5.9	6.2	6.5	6.8	7.1	7.5	7.9	8.4	8.9	0.0
15	Sudan	144.8	143.9	142.3	140.7	139.1	137.5	135.9	134.4	132.8	131.3	129.9	128.4	127.0	125.5	124.2	122.8	130.9	0.0
	East Sahelian Africa	203.6	205.2	206.2	207.5	202.6	202.6	207.0	215.6	219.0	221.2	220.4	219.7	219.0	218.4	217.9	217.5	231.2	0.0
16	Benin	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.0
17	Côte D'Ivoire	9.0	10.3	11.9	13.9	16.2	19.0	21.1	23.6	26.6	29.9	33.8	38.2	43.3	49.0	55.5	62.6	70.5	0.0
18	Ghana	22.2	22.8	23.4	24.1	24.8	25.5	25.2	24.9	24.5	24.2	23.9	23.6	23.3	23.0	22.8	22.5	22.2	0.0
19	Guinea	3.6	3.7	3.9	4.2	4.4	4.5	4.6	4.6	4.7	4.8	5.2	5.6	6.1	6.6	7.2	7.7	8.1	0.0
20	Liberia	4.6	4.9	5.2	5.5	5.9	6.1	6.3	6.6	6.8	6.9	7.2	7.2	7.1	6.9	6.8	7.1	7.7	0.0
21	Nigeria	15.3	16.4	17.5	18.7	20.2	21.3	22.0	22.8	23.7	24.7	26.4	28.4	30.5	33.0	35.7	38.8	43.4	0.0
22	Sierra Leone	3.2	3.2	3.2	3.2	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.3	0.0
23	Togo	2.7	2.8	3.0	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.6	4.8	5.1	5.4	5.7	6.0	6.4	0.0
	West Moist Africa	61.4	65.0	69.0	73.6	78.9	84.0	87.0	90.7	94.8	99.3	105.6	112.4	120.0	128.6	138.4	149.5	163.2	0.0
24	Burundi	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.5	2.6	2.8	2.8	2.9	3.0	3.1	3.2	0.0
25	Cameroon	2.1	2.2	2.3	2.4	2.6	2.7	2.8	3.0	3.2	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.8	0.0
26	Central African Rep.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	Congo, Dem. Rep.	24.0	26.7	29.7	33.0	36.7	40.9	45.5	50.6	56.4	62.7	69.9	49.4	34.9	24.8	17.7	12.7	14.2	0.0
28	Congo, Rep.	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.0
29	Equatorial Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	Gabon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	Rwanda	1.6	1.6	1.7	1.7	1.8	1.9	2.0	2.1	2.2	2.2	2.2	2.2	2.1	1.9	1.8	1.8	1.9	0.0
32	Sao Tome and Principe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	Uganda	12.8	13.4	14.1	14.8	15.5	16.3	17.2	18.1	19.1	20.1	21.2	21.4	21.5	21.7	21.8	23.8	26.0	22.2
	Central Africa	42.7	46.2	50.2	54.5	59.3	64.6	70.4	76.8	83.9	91.5	100.0	80.0	65.9	56.1	49.4	46.7	51.0	22.2
34	Angola	8.7	10.0	11.5	13.2	15.1	17.3	19.9	22.8	26.2	30.1	34.6	36.8	39.1	41.6	44.3	47.3	50.4	0.0
35	Botswana	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.0	0.0
36	Malawi	11.4	11.7	12.0	12.3	12.7	13.3	14.0	14.9	15.8	16.6	17.1	17.5	17.6	17.6	17.6	17.8	18.1	0.0
37	Mozambique	19.0	19.0	19.1	19.1	19.0	18.8	18.5	18.1	17.7	17.5	17.4	17.7	17.9	18.2	18.5	18.7	18.5	0.0
38	Namibia	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	15.5	16.0	16.5	17.0	17.5	18.0	18.6	19.2	19.8	20.4	21.0	21.4	21.7	22.1	22.4	22.8	28.2	0.0
41	Zambia	42.5	41.6	40.5	39.4	38.4	37.4	36.4	35.5	34.6	33.7	32.9	32.1	31.4	30.7	30.0	29.3	32.5	0.0
42	Zimbabwe	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.0
	Tropical Southern Africa	99.0	100.2	101.5	103.0	104.8	107.1	109.7	112.9	116.6	120.8	125.6	128.1	130.5	133.0	135.8	138.9	150.8	0.0
43	Comoros	2.4	2.5	2.5	2.6	2.7	2.8	2.9	3.0	3.0	3.1	3.2	3.3	3.4	3.6	3.7	3.8	3.9	0.0
44	Madagascar	7.0	7.7	8.5	9.4	10.4	11.5	12.7	14.1	15.5	17.2	19.0	21.0	23.2	25.6	28.2	31.2	34.4	0.0
45	Mauritius	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	Seychelles	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
	Insular East Africa	10.1	10.9	11.8	12.7	13.8	15.0	16.3	17.7	19.3	21.1	23.0	25.1	27.4	29.9	32.7	35.7	39.1	0.0
	Total Tropical Africa	426.7	446.7	459.0	472.9	482.2	497.5	516.1	541.0	563.2	585.8	609.2	602.8	602.2	607.3	617.5	633.9	683.4	22.2
48	Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	2.6	1.1	0.5	0.0	0.0
50	Libyan Arab Jamahiriya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0
51	Morocco	6.0	6.5	7.1	7.6	8.3	8.9	9.7	10.5	11.3	12.3	13.3	14.4	15.6	16.9	18.2	19.7	21.3	0.0
52	Tunisia	9.8	9.5	9.1	8.8	8.5	8.5	8.5	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.2	8.2	8.2
	North Africa	15.8	16.0	16.2	16.4	16.8	17.4	18.1	18.9	19.7	20.7	21.7	22.7	27.4	27.8	27.6	28.5	29.6	8.2
53	Lesotho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	South Africa	35.0	35.9	36.8	37.8	38.7	39.7	40.6	41.6	42.5	43.5	44.5	45.5	46.5	47.6	48.7	49.8	50.9	52.0
55	Swaziland	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	1.1	1.1	1.2	1.2	0.0
	Non tropical Southern Africa	35.4	36.3	37.3	38.2	39.2	40.1	41.1	42.1	43.0	44.0	45.0	46.1	47.1	48.7	49.8	50.9	52.1	52.0
	Total Non-tropical Africa	51.2	52.3	53.4	54.6	55.9	57.5	59.2	61.0	62.8	64.7	66.7	68.8	74.6	76.5	77.4	79.4	81.6	60.2
	Total Africa	477.9	499.0	512.5	527.6	538.2	555.1	575.3	602.0	625.9	650.5	675.8	671.6	676.7	683.8	694			

Country		Table A.W.CO2 : CO2 emissions due to Woodfuel use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	5,769	6,047	6,338	6,644	6,965	7,301	7,654	8,024	8,413	8,821	9,249	9,711	10,198	10,709	11,244	11,807	12,396	0.0
2	Cape Verde	41	43	44	51	59	67	77	89	102	104	107	109	112	115	118	121	125	0.0
3	Chad	2,465	2,495	2,529	2,565	2,603	2,644	2,688	2,735	2,787	2,847	2,918	3,000	3,095	3,200	3,317	3,444	3,584	0.0
4	Gambia	581	651	670	689	709	730	752	774	796	820	844	868	894	920	943	965	982	0.0
5	Guinea-Bissau	925	846	773	711	661	622	593	574	613	657	707	764	828	900	983	1,076	1,182	0.0
6	Mali	4,861	5,066	5,280	5,504	5,737	5,981	6,235	6,500	6,710	6,927	7,152	7,384	7,625	7,881	8,144	8,413	8,687	0.0
7	Mauritania	1,915	1,979	2,003	1,951	1,907	1,872	1,843	1,823	1,808	1,793	1,796	1,804	1,817	1,836	1,859	1,887	1,920	0.0
8	Niger	3,209	3,178	3,147	3,129	3,112	3,094	3,077	3,060	3,043	3,026	3,161	3,303	3,451	3,605	3,770	3,942	4,120	0.0
9	Senegal	6,418	4,722	7,257	6,303	5,543	4,943	4,474	4,115	4,320	4,678	5,036	5,182	5,582	5,368	5,766	5,918	6,076	0.0
	West Sahelian Africa	26,183.6	25,025.9	28,040.7	27,546.8	27,295.9	27,254.1	27,393.6	27,693.6	28,592.6	29,673.6	30,969.9	32,125.8	33,601.4	34,534.8	36,144.8	37,571.7	39,071.3	0.0
10	Djibouti	41	44	47	50	54	57	61	65	69	72	76	79	81	83	86	88	90	0.0
11	Eritrea	0	0	0	0	0	0	0	0	0	0	0	0	0	3,347	3,506	3,693	3,914	0.0
12	Ethiopia	31,417	33,133	34,945	36,857	38,879	41,015	43,273	45,660	48,182	50,844	53,654	56,144	58,749	58,725	62,104	65,693	69,506	0.0
13	Kenya	29,646	35,140	41,961	30,802	31,793	29,338	28,790	30,938	30,616	30,759	30,921	31,138	31,369	31,515	31,761	33,851	0.0	
14	Somalia	5,196	5,604	6,045	5,339	4,746	4,813	4,868	4,910	4,944	4,972	5,002	5,031	5,061	5,104	5,175	5,281	5,428	0.0
15	Sudan	36,984	36,576	35,889	35,219	34,566	33,930	33,300	32,703	32,112	31,536	30,974	30,426	29,893	29,372	28,866	28,374	30,256	0.0
	East Sahelian Africa	103,284.5	110,498.3	118,887.1	108,268.7	110,037.5	109,153.6	110,300.5	114,275.7	115,859.9	118,040.5	120,464.9	122,600.9	124,921.9	128,000.5	131,251.4	134,889.2	143,045.1	0.0
16	Benin	2,710	2,765	2,825	2,888	2,953	3,020	3,088	3,158	3,230	3,304	3,377	3,450	3,524	3,599	3,675	3,750	3,828	0.0
17	Côte D'Ivoire	7,049	7,061	7,126	7,247	7,443	7,728	8,246	9,551	11,098	12,934	12,870	13,917	15,087	16,376	17,769	19,260	20,846	0.0
18	Ghana	10,513	10,841	11,179	11,529	11,889	12,261	12,607	12,976	13,368	13,784	14,226	14,055	13,886	13,719	13,555	13,394	13,509	0.0
19	Guinea	9,085	8,820	8,574	8,344	8,129	8,403	8,688	8,982	9,268	9,603	9,462	9,336	9,225	9,129	9,047	9,398	9,639	0.0
20	Liberia	3,904	3,860	3,811	3,439	3,742	3,910	4,119	4,358	4,572	4,681	4,475	4,134	3,712	3,317	3,052	3,098	3,320	0.0
21	Nigeria	149,133	148,149	147,255	146,446	145,724	145,400	144,308	143,644	143,057	142,527	142,229	139,406	136,790	134,377	130,296	126,427	140,828	0.0
22	Sierra Leone	3,676	3,696	3,717	3,745	3,779	3,790	3,814	3,869	3,924	3,968	3,995	4,002	3,992	3,981	3,984	4,016	4,082	0.0
23	Togo	2,443	2,528	2,619	2,710	2,809	2,909	3,015	3,128	3,247	3,372	3,499	3,630	3,766	3,907	4,050	4,196	4,345	0.0
	West Moist Africa	188,511.8	187,720.7	187,107.1	186,348.1	186,467.3	187,061.0	187,884.4	189,665.4	191,782.3	194,173.5	194,133.7	191,929.6	189,981.4	188,404.0	185,427.2	183,539.1	200,397.9	0.0
24	Burundi	2,705	2,781	2,861	2,943	3,031	3,125	3,224	3,329	3,434	3,541	4,034	4,374	4,716	5,081	5,483	5,935	6,449	0.0
25	Cameroon	10,377	10,746	10,888	11,188	11,494	11,811	12,134	12,465	12,805	13,154	13,304	13,456	13,611	13,768	13,929	14,093	15,660	0.0
26	Central African Rep.	2,355	2,411	2,466	2,524	2,583	2,645	2,709	2,776	2,843	2,912	2,983	3,052	3,121	3,191	3,262	3,333	3,405	0.0
27	Congo, Dem. Rep.	30,772	31,759	32,823	33,966	33,729	33,615	33,643	33,836	34,227	34,861	35,798	35,117	35,932	38,113	41,689	46,620	52,847	0.0
28	Congo, Rep.	1,691	1,740	1,790	1,843	1,896	1,953	2,011	2,073	2,136	2,201	2,269	2,340	2,413	2,488	2,564	2,642	2,908	0.0
29	Equatorial Guinea	232	244	262	281	285	283	276	266	254	242	231	246	262	280	301	324	367	0.0
30	Gabon	627	643	660	675	679	683	688	695	701	707	709	734	758	785	813	845	949	0.0
31	Rwanda	3,494	3,607	3,719	3,833	3,962	4,109	4,289	4,493	4,675	4,903	5,143	5,396	5,316	5,162	5,106	5,299	5,851	0.0
32	Sao Tome and Principe	116	120	122	126	127	131	134	137	139	143	147	151	153	157	162	164	180	0.0
33	Uganda	18,422	19,833	21,354	22,995	24,764	26,675	27,704	28,795	29,946	31,172	32,473	33,691	34,983	33,527	32,328	31,520	30,974	29,653.6
	Central Africa	70,791.3	73,885.2	76,945.2	80,373.1	82,551.2	85,028.6	86,811.9	88,864.5	91,162.3	94,018.2	97,091.5	98,556.5	101,264.8	102,553.5	105,635.8	110,774.7	119,589.5	29,653.6
34	Angola	6,344	6,634	6,872	7,235	7,643	8,140	8,658	9,243	9,905	10,654	11,513	11,982	12,480	13,009	13,578	14,187	14,841	0.0
35	Botswana	1,525	1,574	1,624	1,677	1,731	1,786	1,844	1,904	1,964	2,027	2,091	2,156	2,223	2,292	2,347	2,401	2,456	0.0
36	Malawi	18,217	17,280	16,417	15,641	14,968	14,407	14,319	14,362	14,504	14,705	14,938	15,023	15,062	15,076	15,095	15,143	15,226	0.0
37	Mozambique	19,817	20,173	20,524	20,837	21,063	21,186	21,173	21,062	20,949	20,968	21,207	21,831	22,475	23,138	23,822	24,526	24,956	0.0
38	Namibia	1,519	1,553	1,589	1,623	1,661	1,699	1,739	1,777	1,820	1,865	1,910	1,963	2,009	2,055	2,097	2,142	2,194	0.0
39	Saint Helena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
40	Tanzania, United Rep.*	33,863	36,628	45,697	44,727	43,814	42,958	42,159	41,486	40,795	40,170	39,652	40,907	42,239	43,655	45,163	46,996	52,590	0.0
41	Zambia	14,749	15,575	15,333	15,198	15,130	15,106	15,011	14,935	14,885	14,876	14,927	14,840	14,758	14,680	14,607	14,540	16,104	0.0
42	Zimbabwe	10,815	11,575	12,472	12,356	12,247	12,145	12,053	11,973	11,909	11,867	11,854	12,370	12,913	13,483	15,523	13,859	14,858	0.0
	Tropical Southern Africa	106,847.1	110,992.9	120,527.2	119,294.8	118,256.8	117,427.9	116,954.8	116,741.8	116,730.6	117,131.5	118,092.8	121,073.0	124,158.5	127,387.4	132,232.1	133,792.8	143,226.0	0.0
43	Comoros	582	602	622	641	661	681	702	725	746	770	795	819	846	874	901	930	959	0.0
44	Madagascar	6,186	6,543	6,924	7,332	7,778	8,256	8,767	9,314	9,901	10,530	11,203	11,922	12,689	13,509	14,386	15,325	16,333	0.0
45	Mauritius	42	43	43	44	44	44	45	45	45	46	46	47	47	48	48	49	49	0.0
46	Reunion	52	46	40	36	32	28	25	22	20	18	16	14	13	12	11	10	9	0.0
47	Seychelles	113	113	112	110	109	110	111	112	113	114	115	116	116	117	117	118	120	0.0
	Insular East Africa	6,975.9	7,346.3	7,740.5	8,163.0	8,624.8	9,119.5	9,649.8	10,218.4	10,825.2	11,477.9	12,175.4	12,918.1	13,711.5	14,559.6	15,462.8	16,432.4	17,470.0	0.0
	Total Tropical Africa	502,594.3	515,469.4	539,247.8	529,994.6	533,233.6	535,044.6	538,994.8	547,459.4	554,952.8	564,515.1	572,928.2	579,203.9	587,639.5	595,439.6	606,154.1	616,999.9	662,799.9	29,653.6
48	Algeria	1,004	1,083	1,168	1,260	1,359	1,465	1,580	1,704	1,838	1,988	1,940	1,992	2,046	2,102	2,159	2,218	2,288	0.0
49	Egypt	347	394	448	509	579	658	748	850	966	1,098	1,248	1,418	2,165	2,249	2,254	2,447	2,688	0.0
50	Libyan Arab Jamahiriya	324	339	355	371	387	404	420	435	451	468	485	502	547	559	566	581	596	0.0
51	Morocco	13,062	13,171	13,307	13,454	13,586	13,729	13,887	14,054	14,300	14,490	14,674	14,866	14,916	14,926	15,011	15,211	15,434	0.0
52	Tunisia	3,925	3,73																

Country		Table A.W.CH4 : CH4 emissions due to Woodfuel use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	15.9	16.6	17.4	18.3	19.2	20.1	21.1	22.1	23.2	24.3	25.5	26.8	28.2	29.6	31.1	32.7	34.3	0.0
2	Cape Verde	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
3	Chad	7.1	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.3	8.6	8.8	9.1	9.5	9.9	10.3	10.8	11.3	0.0
4	Gambia	1.6	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.6	2.6	2.7	0.0
5	Guinea-Bissau	2.7	2.5	2.3	2.1	2.0	1.9	1.9	1.9	2.0	2.2	2.4	2.6	2.9	3.1	3.5	3.8	4.3	0.0
6	Mali	13.8	14.3	15.0	15.6	16.3	17.0	17.7	18.5	19.1	19.7	20.4	21.1	21.8	22.5	23.3	24.1	24.9	0.0
7	Mauritania	6.4	6.6	6.8	6.7	6.6	6.5	6.5	6.5	6.5	6.6	6.6	6.7	6.8	6.9	7.1	7.2	7.4	0.0
8	Niger	8.8	8.7	8.6	8.6	8.5	8.5	8.4	8.3	8.3	8.3	8.7	9.0	9.4	9.9	10.3	10.8	11.3	0.0
9	Senegal	17.6	14.8	21.9	19.4	17.4	15.9	14.8	13.9	14.8	16.0	17.3	18.1	19.2	18.7	19.9	20.4	20.9	0.0
	West Sahelian Africa	73.8	72.7	81.2	80.1	79.7	79.9	80.6	81.8	84.7	88.2	92.3	96.1	100.5	103.5	108.4	112.8	117.4	0.0
10	Djibouti	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	9.8	10.3	10.9	0.0
12	Ethiopia	88.1	92.8	97.8	103.1	108.7	114.6	120.9	127.5	134.5	141.8	149.6	156.5	163.7	163.6	172.9	182.8	193.4	0.0
13	Kenya	91.1	106.5	125.7	95.6	97.5	91.0	90.7	98.6	98.5	99.3	99.7	100.2	100.8	101.4	101.8	102.5	109.2	0.0
14	Somalia	15.0	16.2	17.4	15.6	14.0	14.3	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.9	16.3	16.8	0.0
15	Sudan	132.9	131.6	129.3	127.1	125.0	122.9	120.9	118.9	116.9	115.0	113.1	111.3	109.6	107.8	106.1	104.5	111.4	0.0
	East Sahelian Africa	327.1	347.2	370.4	341.6	345.4	343.0	347.1	359.8	364.9	371.4	377.8	383.5	389.7	398.0	406.8	416.7	442.0	0.0
16	Benin	7.6	7.8	7.9	8.1	8.3	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	0.0
17	Côte D'Ivoire	21.3	21.6	22.1	22.9	23.9	25.3	27.2	31.3	36.2	41.9	42.6	46.4	50.7	55.5	60.7	66.4	72.5	0.0
18	Ghana	33.6	34.6	35.7	36.8	38.0	39.1	40.0	40.9	41.9	43.0	44.2	43.6	43.1	42.6	42.1	41.6	41.8	0.0
19	Guinea	25.6	25.0	24.3	23.7	23.2	24.0	24.8	25.6	26.4	27.3	27.0	26.8	26.6	26.4	26.3	27.4	28.2	0.0
20	Liberia	11.7	11.6	11.6	10.6	11.5	12.0	12.7	13.4	14.0	14.3	13.8	12.9	11.7	10.6	9.8	10.0	10.8	0.0
21	Nigeria	411.4	409.0	406.8	404.8	403.2	401.5	399.7	398.0	396.6	395.4	395.0	387.7	381.0	374.9	364.4	354.4	394.8	0.0
22	Sierra Leone	10.8	10.8	10.9	10.9	11.0	11.1	11.2	11.3	11.5	11.7	11.7	11.8	11.8	11.8	11.8	11.9	12.1	0.0
23	Togo	7.3	7.5	7.8	8.1	8.4	8.7	9.1	9.4	9.8	10.2	10.6	11.0	11.4	11.9	12.3	12.8	13.3	0.0
	West Moist Africa	529.3	527.9	527.1	526.0	527.5	530.2	533.1	538.8	545.5	553.1	554.3	549.8	546.1	543.7	537.7	534.9	584.0	0.0
24	Burundi	7.8	8.0	8.3	8.5	8.8	9.0	9.3	9.6	9.9	10.7	11.6	12.6	13.5	14.5	15.7	16.9	18.3	0.0
25	Cameroon	28.8	29.9	30.3	31.1	32.0	32.9	33.8	34.8	35.7	36.7	37.2	37.6	38.1	38.6	39.1	39.6	43.9	0.0
26	Central African Rep.	6.4	6.6	6.7	6.9	7.1	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.5	8.7	8.9	9.1	9.3	0.0
27	Congo, Dem. Rep.	89.5	92.7	96.3	100.2	100.3	100.9	102.0	103.7	106.0	109.1	113.2	106.9	106.0	109.7	117.9	130.3	147.7	0.0
28	Congo, Rep.	4.7	4.9	5.0	5.1	5.3	5.5	5.6	5.8	6.0	6.2	6.3	6.5	6.8	7.0	7.2	7.4	8.1	0.0
29	Equatorial Guinea	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.8	0.8	0.9	1.0	0.0
30	Gabon	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.6	0.0
31	Rwanda	9.9	10.2	10.5	10.9	11.2	11.7	12.2	12.8	13.3	13.9	14.6	15.2	15.0	14.5	14.4	14.9	16.4	0.0
32	Sao Tome and Principe	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0
33	Uganda	53.2	57.2	61.5	66.2	71.2	76.6	79.6	82.8	86.1	89.7	93.5	96.9	100.4	96.5	93.2	91.5	90.4	86.0
	Central Africa	203.0	212.3	221.5	231.8	238.9	246.8	252.9	260.0	267.8	277.3	287.5	287.2	291.5	292.9	299.9	313.3	338.4	86.0
34	Angola	19.3	20.3	21.3	22.7	24.2	26.1	28.0	30.3	32.8	35.7	39.1	40.8	42.7	44.7	46.8	49.2	51.6	0.0
35	Botswana	4.4	4.6	4.7	4.9	5.0	5.2	5.4	5.6	5.7	5.9	6.1	6.3	6.5	6.7	6.8	7.0	7.2	0.0
36	Malawi	52.3	49.8	47.5	45.5	43.7	42.3	42.2	42.6	43.1	43.9	44.6	44.9	45.1	45.1	45.2	45.3	45.6	0.0
37	Mozambique	58.4	59.4	60.3	61.2	61.8	62.1	62.0	61.6	61.2	61.2	61.8	63.6	65.4	67.3	69.2	71.2	72.3	0.0
38	Namibia	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.1	5.2	5.3	5.5	5.6	5.7	5.8	6.0	6.1	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	96.1	103.7	128.6	126.1	123.7	121.5	119.4	117.7	115.9	114.4	113.1	116.6	120.3	124.3	128.5	133.6	150.1	0.0
41	Zambia	49.7	51.7	50.8	50.2	49.8	49.5	49.0	48.6	48.3	48.1	48.0	47.6	47.2	46.9	46.5	46.2	51.2	0.0
42	Zimbabwe	29.7	31.8	34.2	33.9	33.6	33.3	33.1	32.9	32.7	32.6	32.5	34.0	35.4	37.0	42.6	38.0	40.8	0.0
	Tropical Southern Africa	314.0	325.6	352.0	349.0	346.5	344.7	344.0	344.1	344.9	346.9	350.6	359.3	368.3	377.7	391.5	396.5	424.9	0.0
43	Comoros	2.1	2.2	2.3	2.3	2.4	2.5	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	0.0
44	Madagascar	18.5	19.6	20.8	22.1	23.6	25.1	26.8	28.6	30.5	32.6	34.8	37.2	39.8	42.6	45.5	48.7	52.2	0.0
45	Mauritius	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
46	Reunion	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	Seychelles	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
	Insular East Africa	21.3	22.5	23.8	25.1	26.6	28.2	30.0	31.8	33.8	36.0	38.3	40.8	43.5	46.4	49.5	52.8	56.3	0.0
	Total Tropical Africa	1,468.6	1,508.2	1,575.9	1,553.7	1,564.6	1,572.9	1,587.7	1,616.3	1,641.7	1,672.8	1,700.9	1,716.7	1,739.7	1,762.1	1,793.7	1,826.9	1,963.1	86.0
48	Algeria	2.7	3.0	3.2	3.4	3.7	4.0	4.3	4.7	5.0	5.2	5.3	5.5	5.6	5.8	5.9	6.1	6.3	0.0
49	Egypt	0.9	1.1	1.2	1.4	1.6	1.8	2.0	2.3	2.6	3.0	3.4	3.9	6.7	6.7	6.4	6.8	7.4	0.0
50	Libyan Arab Jamahiriya	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.6	1.6	0.0
51	Morocco	37.1	37.5	38.0	38.5	39.0	39.5	40.1	40.7	41.6	42.3	43.1	43.8	44.2	44.5	45.1	45.9	46.9	0.0
52	Tunisia	12.9	12.3	11.7	11.2	10.8	10.9	11.0	11.1	11.3	11.5	11.7	11.9	12.1	12.3	12.6	12.8	13.1	13.4
	North Africa	54.5	54.7	55.1	55.6	56.1	57.3	58.6	60.1	61.8	63.3	64.8	66.4	70.1	70.9	71.5	73.2	75.2	13.4
53	Lesotho	3.0	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.6	0.0
54	South Africa	101.3	103.5	105.8	108.2	110.1	112.3	114.4	116.8	119.2	125.7	128.1	130.4	133.3	135.8	138.5	141.8	147.5	82.8
55	Swaziland	3.1	3.2	3.2	3.4	3.5	3.5	3.6	3.7	3.7	3.6	3.7	3.9	4.0	4.5	4.6	4.7	4.8	0.0
	Non tropical Southern Africa	107.4	109.7	112.1	114.8	116.9	119.2	121.5	124.0	126.5	133.1	135.7	138.3	141.4	144.6	127.4	116.9	106.8	82.8
	Total Non-tropical Africa	161.9	164.4	167.2	170.4	173.0	176												

Country		Table A.W.N2O : N2O emissions due to Woodfuel use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.0	
2	Cape Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	Chad	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
4	Gambia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	Guinea-Bissau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	Mali	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.0	
7	Mauritania	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	Niger	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
9	Senegal	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
	West Sahelian Africa	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2	0.0	
10	Djibouti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	
12	Ethiopia	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3	0.0	
13	Kenya	0.8	1.0	1.3	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.0	
14	Somalia	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
15	Sudan	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	
	East Sahelian Africa	2.7	2.9	3.2	2.8	2.9	2.9	2.9	3.0	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	4.0	
16	Benin	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
17	Côte D'Ivoire	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.0	
18	Ghana	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	
19	Guinea	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	
20	Liberia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
21	Nigeria	5.4	5.3	5.3	5.2	5.2	5.1	5.1	5.1	5.1	5.0	4.9	4.8	4.7	4.6	4.4	4.9	0.0	
22	Sierra Leone	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
23	Togo	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
	West Moist Africa	6.5	6.5	6.5	6.4	6.4	6.4	6.4	6.5	6.5	6.4	6.3	6.2	6.0	5.9	6.4	0.0		
24	Burundi	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.0	
25	Cameroon	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	
26	Central African Rep.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
27	Congo, Dem. Rep.	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.1	1.3	1.4	1.6	0.0	
28	Congo, Rep.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
29	Equatorial Guinea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	Gabon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	Rwanda	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	
32	Sao Tome and Principe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33	Uganda	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.1	1.1	1.0	1.0	
	Central Africa	2.4	2.4	2.5	2.6	2.7	2.8	2.8	2.9	2.9	3.0	3.2	3.3	3.4	3.6	3.8	4.1	1.0	
34	Angola	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.0	
35	Botswana	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
36	Malawi	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	
37	Mozambique	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.0	
38	Namibia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
40	Tanzania, United Rep.*	1.2	1.2	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.3	1.4	1.4	1.5	1.5	1.6	0.0	
41	Zambia	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	
42	Zimbabwe	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.0	
	Tropical Southern Africa	3.4	3.5	3.8	3.8	3.7	3.7	3.6	3.6	3.6	3.6	3.7	3.8	3.9	4.1	4.1	4.4	0.0	
43	Comoros	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	Madagascar	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.0	
45	Mauritius	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
47	Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Insular East Africa	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.0	
	Total Tropical Africa	16.0	16.4	17.2	16.8	16.8	16.9	17.0	17.2	17.4	17.6	17.9	18.2	18.4	18.8	19.1	20.5	1.0	
48	Algeria	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
49	Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	
50	Libyan Arab Jamahiriya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
51	Morocco	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.0	
52	Tunisia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
	North Africa	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.1	
53	Lesotho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
54	South Africa	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.2	1.0	0.9	0.7	
55	Swaziland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	
	Non tropical Southern Africa	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.3	1.1	1.0	0.7	
	Total Non-tropical Africa	1.7	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.0	1.9	1.7	0.8	
	Total Africa	17.8	18.1	19.0	18.6	18.7	18.8	19.0	19.2	19.5	19.7	20.0	20.4	20.7	20.8	20.9	22.2	1.7	

Country		Table A.W.NOx : NOx emissions due to Woodfuel use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.3	7.6	8.0	8.3	8.8	9.2	9.6	10.1	10.6	11.1	0.0
2	Cape Verde	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
3	Chad	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.7	0.0
4	Gambia	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.0
5	Guinea-Bissau	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.0
6	Mali	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.7	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.5	0.0
7	Mauritania	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
8	Niger	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.8	0.0
9	Senegal	5.9	3.5	5.8	4.9	4.1	3.5	3.1	2.7	2.8	3.0	3.2	3.2	3.5	3.3	3.6	3.7	3.8	0.0
	West Sahelian Africa	23.0	21.1	23.8	23.2	22.9	22.7	22.8	23.5	24.2	25.2	26.0	27.2	27.9	29.1	30.2	31.4	0.0	
10	Djibouti	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	Ethiopia	27.8	29.3	31.0	32.7	34.5	36.4	38.5	40.6	42.9	45.3	47.8	50.1	52.4	52.4	55.4	58.7	62.1	0.0
13	Kenya	23.0	27.9	33.9	23.5	24.8	22.4	21.5	22.6	21.9	21.6	21.8	21.9	22.1	22.3	22.4	22.7	24.2	0.0
14	Somalia	4.4	4.8	5.1	4.5	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.2	0.0
15	Sudan	21.0	20.7	20.2	19.7	19.3	18.8	18.4	18.0	17.6	17.2	16.8	16.4	16.1	15.7	15.4	15.0	16.0	0.0
	East Sahelian Africa	76.2	82.7	90.2	80.4	82.5	81.7	82.3	85.2	86.4	88.2	90.4	92.4	94.6	97.5	100.5	103.8	110.1	0.0
16	Benin	2.4	2.4	2.5	2.6	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.1	3.2	3.3	3.4	3.4	0.0
17	Côte D'Ivoire	5.6	5.5	5.4	5.4	5.4	5.4	5.7	6.6	7.8	9.2	8.8	9.3	9.9	10.6	11.3	12.0	12.8	0.0
18	Ghana	7.6	7.9	8.1	8.4	8.7	8.9	9.3	9.6	10.0	10.4	10.9	10.7	10.6	10.5	10.4	10.2	10.4	0.0
19	Guinea	8.0	7.7	7.5	7.2	7.0	7.3	7.5	7.8	8.1	8.3	8.2	8.0	7.9	7.7	7.6	7.9	8.1	0.0
20	Liberia	3.2	3.1	3.0	2.6	2.9	3.0	3.2	3.4	3.6	3.7	3.5	3.1	2.8	2.4	2.2	2.2	2.3	0.0
21	Nigeria	134.7	133.7	132.8	131.9	131.1	130.4	129.7	129.0	128.4	127.8	127.4	124.7	122.1	119.7	115.7	111.9	124.6	0.0
22	Sierra Leone	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.0
23	Togo	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	0.0
	West Moist Africa	166.5	165.5	164.6	163.5	163.1	163.2	163.7	165.0	166.6	168.3	167.8	165.1	162.7	160.5	156.9	154.2	168.4	0.0
24	Burundi	2.3	2.4	2.4	2.5	2.6	2.7	2.7	2.8	2.9	3.2	3.5	3.7	4.1	4.4	4.7	5.1	5.6	0.0
25	Cameroon	9.3	9.6	9.7	10.0	10.3	10.5	10.8	11.1	11.4	11.7	11.8	11.9	12.1	12.2	12.3	12.5	13.9	0.0
26	Central African Rep.	2.1	2.2	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.7	2.8	2.8	2.9	3.0	3.0	3.1	0.0
27	Congo, Dem. Rep.	25.9	26.6	27.3	28.1	27.5	27.1	26.7	26.4	26.2	26.3	26.5	27.7	29.7	32.6	36.5	41.4	46.9	0.0
28	Congo, Rep.	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.6	0.0
29	Equatorial Guinea	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.0
30	Gabon	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.0
31	Rwanda	3.0	3.1	3.2	3.3	3.5	3.6	3.7	3.9	4.1	4.3	4.5	4.7	4.7	4.5	4.5	4.7	5.2	0.0
32	Sao Tome and Principe	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
33	Uganda	15.7	16.9	18.2	19.7	21.2	22.9	23.8	24.7	25.6	26.7	27.7	28.8	30.0	28.7	27.6	26.6	26.0	25.1
	Central Africa	60.8	63.3	65.8	68.5	70.1	71.9	73.0	74.3	75.7	77.7	79.7	82.8	86.5	88.6	92.0	96.9	104.6	25.1
34	Angola	5.0	5.2	5.3	5.4	5.6	5.9	6.1	6.4	6.7	7.1	7.5	7.7	7.9	8.2	8.5	8.8	9.1	0.0
35	Botswana	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	0.0
36	Malawi	15.6	14.7	13.9	13.2	12.5	12.0	11.8	11.8	11.8	12.0	12.1	12.2	12.2	12.2	12.2	12.2	12.3	0.0
37	Mozambique	16.4	16.7	17.0	17.3	17.5	17.7	17.7	17.6	17.5	17.6	17.8	18.4	18.9	19.5	20.1	20.7	21.1	0.0
38	Namibia	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	2.0	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	29.5	32.0	40.2	39.3	38.4	37.6	36.8	36.2	35.5	34.8	34.3	35.4	36.6	37.9	39.2	40.9	45.5	0.0
41	Zambia	9.7	10.5	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.6	10.7	10.7	10.7	10.7	10.7	10.7	11.8	0.0
42	Zimbabwe	9.8	10.5	11.3	11.2	11.1	11.0	11.0	10.9	10.8	10.8	10.8	11.2	11.7	12.3	14.1	12.6	13.5	0.0
	Tropical Southern Africa	88.7	92.4	101.0	99.7	98.6	97.7	97.0	96.5	96.2	96.2	96.6	99.1	101.7	104.5	108.6	109.8	117.3	0.0
43	Comoros	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
44	Madagascar	5.0	5.3	5.6	5.9	6.2	6.5	6.9	7.3	7.7	8.1	8.5	9.0	9.5	10.1	10.6	11.2	11.9	0.0
45	Mauritius	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	Reunion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	Seychelles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insular East Africa	5.5	5.7	6.0	6.3	6.6	7.0	7.4	7.8	8.2	8.6	9.1	9.6	10.1	10.6	11.2	11.8	12.5	0.0
	Total Tropical Africa	420.8	430.8	451.4	441.7	443.8	444.1	446.1	451.6	456.5	463.2	468.8	475.1	482.9	489.5	498.4	506.8	544.3	25.1
48	Algeria	0.9	1.0	1.1	1.1	1.2	1.3	1.4	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	0.0
49	Egypt	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.7	1.8	2.0	2.2	2.5	0.0
50	Libyan Arab Jamahiriya	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.0
51	Morocco	11.4	11.4	11.5	11.6	11.7	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.2	12.1	12.1	12.1	12.2	0.0
52	Tunisia	2.7	2.6	2.4	2.3	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.1
	North Africa	15.6	15.7	15.8	15.9	16.0	16.3	16.6	17.0	17.4	17.8	18.1	18.5	18.9	19.1	19.4	19.8	20.3	3.1
53	Lesotho	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	0.0
54	South Africa	28.1	28.7	29.3	30.0	30.5	31.0	31.6	32.2	32.9	34.9	35.6	36.2	36.9	37.6	31.6	27.9	24.3	19.2
55	Swaziland	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	0.0
	Non tropical Southern A	30.1	30.7	31.4	32.1	32.7	33.3	33.9	34.6	35.2	37.3	38.0	38.7	39.5	40.3	34.4	30.7	27.2	19.2
	Total Non-tropical Africa	45.7	46.4	47.1	48.0	48.7	49.6	50.5	51.5	52.7	55.0	56.1	57.2	58.5	59.5	53.8	50.6	47.5	22.4
	Total Africa	466.5	477.1	498.5	489.7	492.5	493.7	496.6	503.1	509.2	518.3	524.9	532.3	541.4	549.0	552.2	557.4	591.8	47.5

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Country		Table A.W.CO : CO emissions due to Woodfuel use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	263.2	275.9	289.2	303.2	317.8	333.2	349.3	366.2	383.9	402.6	422.1	443.2	465.5	488.9	513.3	539.0	566.0	0.0
2	Cape Verde	1.9	1.9	2.0	2.3	2.7	3.1	3.5	4.1	4.7	4.8	4.9	5.0	5.1	5.3	5.4	5.5	5.7	0.0
3	Chad	112.9	114.3	115.9	117.6	119.4	121.3	123.4	125.6	128.1	130.9	134.3	138.1	142.6	147.5	153.0	159.0	165.6	0.0
4	Gambia	26.5	29.7	30.5	31.4	32.4	33.3	34.3	35.3	36.3	37.4	38.5	39.6	40.8	42.0	43.0	44.0	44.8	0.0
5	Guinea-Bissau	42.3	38.8	35.5	32.7	30.4	28.7	27.4	26.6	28.5	30.5	32.9	35.6	38.6	42.0	45.9	50.3	55.3	0.0
6	Mali	222.4	231.7	241.5	251.8	262.5	273.6	285.3	297.4	307.0	317.0	327.3	338.0	349.0	360.8	372.8	385.2	397.8	0.0
7	Mauritania	89.0	92.0	93.2	90.8	88.9	87.4	86.2	85.3	84.7	84.1	84.4	84.8	85.5	86.4	87.6	89.0	90.6	0.0
8	Niger	146.3	144.9	143.5	142.7	141.9	141.1	140.3	139.6	138.8	138.0	144.2	150.6	157.4	164.4	172.0	179.8	187.9	0.0
9	Senegal	292.7	218.0	333.8	290.5	256.0	228.8	207.6	191.5	201.2	217.9	234.7	241.8	260.2	250.5	268.8	275.9	283.2	0.0
	West Sahelian Africa	1,197.2	1,147.3	1,285.2	1,263.0	1,252.0	1,250.5	1,257.3	1,271.5	1,313.2	1,363.2	1,423.2	1,476.8	1,544.6	1,587.8	1,661.9	1,727.7	1,796.8	0.0
10	Djibouti	1.9	2.0	2.2	2.3	2.5	2.6	2.8	3.0	3.2	3.3	3.5	3.6	3.7	3.8	3.9	4.0	4.2	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	152.9	160.1	168.7	178.8	0.0
12	Ethiopia	1,435.8	1,514.2	1,596.9	1,684.2	1,776.4	1,873.9	1,977.0	2,086.0	2,201.1	2,322.7	2,450.9	2,564.6	2,683.5	2,823.3	2,836.6	3,000.4	3,174.4	0.0
13	Kenya	1,366.2	1,617.3	1,929.1	1,420.9	1,464.8	1,353.2	1,329.9	1,430.8	1,414.6	1,418.4	1,424.9	1,432.3	1,442.2	1,452.7	1,459.5	1,470.6	1,567.4	0.0
14	Somalia	238.1	256.8	277.0	244.9	218.0	221.1	223.7	225.7	227.3	228.7	230.1	231.5	233.0	235.1	238.5	243.5	250.3	0.0
15	Sudan	1,731.6	1,712.8	1,680.9	1,649.9	1,619.6	1,590.1	1,561.3	1,533.1	1,505.7	1,479.0	1,452.9	1,427.5	1,402.7	1,378.5	1,355.0	1,332.1	1,420.5	0.0
	East Sahelian Africa	4,773.6	5,103.1	5,486.0	5,002.1	5,081.3	5,041.0	5,094.6	5,278.6	5,351.9	5,452.0	5,562.4	5,659.6	5,765.2	5,905.4	6,053.5	6,219.3	6,595.5	0.0
16	Benin	123.9	126.4	129.1	132.0	134.9	138.0	141.1	144.3	147.6	150.9	154.2	157.6	160.9	164.4	167.8	171.3	174.8	0.0
17	Côte D'Ivoire	324.3	325.2	328.7	334.8	344.5	358.4	382.6	442.9	514.4	599.1	646.6	701.5	762.0	827.6	897.8	972.6	0.0	
18	Ghana	486.3	501.5	517.1	533.3	549.9	567.1	582.8	599.5	617.3	636.2	656.2	648.3	640.5	632.8	625.3	617.8	623.0	0.0
19	Guinea	415.4	403.4	392.3	381.8	372.1	384.6	397.6	411.1	425.0	439.4	433.1	427.5	422.6	418.4	414.9	431.0	442.1	0.0
20	Liberia	179.5	177.6	175.4	158.6	172.5	180.2	189.8	200.8	210.6	215.6	206.3	190.8	171.5	153.4	141.3	143.5	153.8	0.0
21	Nigeria	6,806.2	6,761.7	6,721.2	6,684.7	6,652.2	6,621.4	6,588.2	6,558.2	6,531.7	6,507.8	6,494.8	6,366.6	6,248.0	6,138.7	5,953.4	5,777.9	6,436.1	0.0
22	Sierra Leone	168.7	169.5	170.5	171.8	173.3	173.9	175.0	177.5	180.1	182.1	183.3	183.7	183.3	182.8	182.9	184.4	187.5	0.0
23	Togo	112.2	116.2	120.3	124.6	129.1	133.7	138.6	143.9	149.3	155.1	161.0	167.1	173.3	179.8	186.5	193.3	200.1	0.0
	West Moist Africa	8,616.4	8,581.5	8,554.7	8,521.5	8,528.6	8,557.3	8,595.7	8,678.1	8,776.0	8,886.4	8,886.5	8,788.1	8,701.6	8,632.4	8,499.6	8,417.0	9,190.1	0.0
24	Burundi	124.0	127.4	131.1	134.9	138.9	143.2	147.8	152.6	157.4	170.5	184.8	200.3	216.0	232.6	251.0	271.7	295.1	0.0
25	Cameroon	473.9	490.8	497.3	511.0	525.0	539.5	554.3	569.4	585.0	601.0	607.8	614.8	621.9	629.2	636.6	644.1	715.7	0.0
26	Central African Rep.	107.4	110.0	112.5	115.1	117.8	120.6	123.5	126.6	129.7	132.8	136.0	139.2	142.3	145.6	148.8	152.0	155.3	0.0
27	Congo, Dem. Rep.	1,410.9	1,456.7	1,506.2	1,559.3	1,549.6	1,545.8	1,548.5	1,558.9	1,578.5	1,609.4	1,654.3	1,616.9	1,649.6	1,745.9	1,906.8	2,130.1	2,414.6	0.0
28	Congo, Rep.	77.2	79.5	81.8	84.2	86.6	89.2	91.9	94.7	97.6	100.6	103.7	106.9	110.2	113.7	117.2	120.7	132.9	0.0
29	Equatorial Guinea	10.6	11.1	12.0	12.8	13.0	12.9	12.6	12.1	11.6	11.0	10.5	11.2	12.0	12.8	13.7	14.8	16.7	0.0
30	Gabon	28.6	29.3	30.1	30.8	31.0	31.2	31.4	31.7	32.0	32.2	32.3	33.5	34.6	35.8	37.1	38.5	43.3	0.0
31	Rwanda	159.8	165.0	170.1	175.4	181.3	188.0	196.2	205.6	213.9	224.3	235.3	246.8	243.1	236.0	233.4	242.2	267.4	0.0
32	Sao Tome and Principe	5.3	5.5	5.6	5.7	5.8	6.0	6.1	6.2	6.4	6.5	6.7	6.9	7.0	7.1	7.4	7.5	8.2	0.0
33	Uganda	844.1	908.7	978.3	1,053.3	1,134.2	1,221.6	1,268.8	1,318.8	1,371.7	1,427.9	1,487.6	1,543.1	1,602.1	1,535.8	1,481.2	1,444.9	1,420.7	1,359.3
	Central Africa	3,241.8	3,384.0	3,524.8	3,682.4	3,783.3	3,897.9	3,981.0	4,076.6	4,183.6	4,316.2	4,459.0	4,519.7	4,638.8	4,694.5	4,833.0	5,066.5	5,469.9	1,359.3
34	Angola	292.0	305.7	316.9	334.0	353.3	376.6	401.0	428.6	459.8	495.2	535.8	557.9	581.3	606.2	633.0	661.7	692.5	0.0
35	Botswana	69.9	72.2	74.5	76.9	79.4	81.9	84.6	87.3	90.1	93.0	95.9	98.9	102.0	105.1	107.6	110.1	112.7	0.0
36	Malawi	834.3	791.7	752.5	717.1	686.6	661.2	657.4	659.6	666.4	675.8	686.6	690.6	692.4	693.0	693.9	696.1	700.0	0.0
37	Mozambique	909.7	925.9	942.0	956.2	966.5	972.0	971.4	966.2	960.9	961.7	972.6	1,001.1	1,030.6	1,060.9	1,092.2	1,124.4	1,143.9	0.0
38	Namibia	69.4	70.9	72.5	74.1	75.9	77.6	79.4	81.2	83.1	85.2	87.2	89.7	91.7	93.8	95.8	97.8	100.2	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	1,549.2	1,675.4	2,089.2	2,045.1	2,003.6	1,964.8	1,928.5	1,898.0	1,866.6	1,838.3	1,814.9	1,872.3	1,933.1	1,997.8	2,066.7	2,150.4	2,407.2	0.0
41	Zambia	685.8	723.2	711.8	705.3	701.9	700.5	695.9	692.1	689.6	688.9	691.0	686.8	682.8	679.0	675.5	672.2	744.5	0.0
42	Zimbabwe	493.3	528.0	568.9	563.7	558.7	554.0	549.8	546.2	543.3	541.4	540.8	564.3	589.1	615.1	708.1	632.2	677.8	0.0
	Tropical Southern Africa	4,903.6	5,093.1	5,528.3	5,472.6	5,425.8	5,388.7	5,367.9	5,359.2	5,359.8	5,379.4	5,424.8	5,561.5	5,702.9	5,851.0	6,072.8	6,144.9	6,578.8	0.0
43	Comoros	27.3	28.2	29.1	30.1	31.0	31.9	32.9	34.0	35.0	36.1	37.3	38.4	39.7	41.0	42.2	43.6	44.9	0.0
44	Madagascar	284.3	300.8	318.4	337.3	358.0	380.1	403.8	429.2	456.4	485.6	516.8	550.2	585.9	624.0	664.8	708.6	755.5	0.0
45	Mauritius	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	0.0	0.0
46	Reunion	2.4	2.1	1.8	1.6	1.5	1.3	1.1	1.0	0.9	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.0
47	Seychelles	5.4	5.4	5.3	5.2	5.2	5.2	5.3	5.3	5.3	5.4	5.5	5.5	5.5	5.6	5.6	5.6	5.7	0.0
	Insular East Africa	321.3	338.4	356.7	376.2	397.6	420.6	445.1	471.5	499.7	530.0	562.4	596.9	633.8	673.3	715.3	760.5	808.9	0.0
	Total Tropical Africa	23,054.0	23,647.4	24,735.7	24,318.0	24,468.6	24,555.9	24,741.8	25,135.6	25,484.2	25,927.3	26,318.3	26,602.5	26,987.0	27,344.4	27,836.2	28,335.9	30,440.0	1,359.3
48	Algeria	45.8	49.4	53.3	57.5	62.0	66.8	72.1	77.7	83.8	86.1	88.5	90.9	93.3	95.9	98.5	101.2	104.3	0.0
49	Egypt	15.8	18.0	20.4	23.2	26.4	30.0	34.1	38.8	44.1	50.1	56.9	64.7	99.8	103.4	103.1	111.8	122.6	0.0
50	Libyan Arab Jamahiriya	14.8	15.5	16.2	16.9	17.7	18.4	19.1	19.9	20.6	21.3	22.1	22.9	25.0	25.5	25.8	26.5	27.2	0.0
51	Morocco	597.6	602.7	609.1	616.0	622.2	628.9	636.3	644.2	655.7	664.7	673.4	682.5	685.1	686.0	690.3	699.8	710.5	0.0
52	Tunisia	182.0	173.2	165.2	158.0	151.4	153.0	155.1	157.4	160.1	163.1	166.4							

Country		Table A.W.NMVOC : NMVOC emissions due to Woodfuel use																	
		1000 MT																	
		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	Burkina Faso	31.6	33.1	34.7	36.4	38.2	40.0	42.0	44.0	46.1	48.4	50.7	53.3	55.9	58.8	61.7	64.8	68.0	0.0
2	Cape Verde	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.0
3	Chad	13.6	13.8	14.0	14.2	14.5	14.7	15.0	15.3	15.6	15.9	16.4	16.9	17.4	18.0	18.7	19.5	20.3	0.0
4	Gambia	3.2	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.4	4.5	4.6	4.8	4.9	5.0	5.2	5.3	5.4	0.0
5	Guinea-Bissau	5.1	4.7	4.3	4.0	3.7	3.5	3.4	3.3	3.5	3.8	4.1	4.4	4.8	5.3	5.8	6.3	7.0	0.0
6	Mali	26.8	28.0	29.1	30.4	31.7	33.0	34.4	35.9	37.1	38.3	39.5	40.8	42.2	43.6	45.0	46.5	48.1	0.0
7	Mauritania	11.0	11.4	11.6	11.3	11.1	10.9	10.8	10.7	10.6	10.6	10.6	10.7	10.8	11.0	11.1	11.3	11.5	0.0
8	Niger	17.6	17.4	17.2	17.1	17.0	16.9	16.8	16.7	16.7	16.6	17.3	18.1	18.9	19.7	20.6	21.6	22.5	0.0
9	Senegal	35.1	26.7	40.7	35.5	31.4	28.2	25.7	23.8	25.0	27.1	29.2	30.2	32.4	31.3	33.5	34.4	35.3	0.0
	West Sahelian Africa	144.3	139.0	155.6	153.0	151.8	151.7	152.6	154.4	159.5	165.7	173.1	179.7	188.0	193.3	202.3	210.4	218.8	0.0
10	Djibouti	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.0
11	Eritrea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	19.3	20.3	21.5	0.0
12	Ethiopia	172.9	182.4	192.3	202.8	213.9	225.6	238.0	251.1	264.9	279.5	295.0	308.6	322.9	322.8	341.3	361.0	381.9	0.0
13	Kenya	167.0	197.2	234.8	174.0	179.0	165.7	163.2	176.0	174.3	175.0	175.7	176.6	177.8	179.1	179.9	181.2	193.1	0.0
14	Somalia	28.8	31.1	33.5	29.7	26.5	26.9	27.2	27.5	27.7	27.9	28.1	28.2	28.4	28.7	29.1	29.8	30.6	0.0
15	Sudan	217.4	215.1	211.2	207.4	203.6	200.0	196.4	192.9	189.5	186.2	183.0	179.9	176.8	173.8	170.9	168.0	179.2	0.0
	East Sahelian Africa	586.4	626.0	672.1	614.1	623.3	618.4	625.2	647.8	656.8	669.0	682.2	693.8	706.4	723.2	741.0	760.8	806.9	0.0
16	Benin	14.9	15.2	15.6	15.9	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.2	20.6	21.0	0.0
17	Côte D'Ivoire	39.5	39.7	40.2	41.1	42.4	44.3	47.3	54.7	63.5	73.9	80.1	87.1	94.7	103.0	111.9	121.4	0.0	0.0
18	Ghana	59.8	61.7	63.6	65.6	67.6	69.8	71.6	73.6	75.7	78.0	80.3	79.4	78.4	77.5	76.6	75.6	76.2	0.0
19	Guinea	50.1	48.7	47.3	46.1	44.9	46.5	48.0	49.6	51.3	53.1	52.3	51.7	51.1	50.7	50.3	52.2	53.6	0.0
20	Liberia	21.8	21.6	21.4	19.4	21.1	22.0	23.2	24.5	25.7	26.3	25.2	23.4	21.0	18.9	17.4	17.7	19.0	0.0
21	Nigeria	817.8	812.5	807.7	803.4	799.6	796.0	792.1	788.5	785.4	782.6	781.1	765.9	751.8	738.8	716.8	695.9	775.2	0.0
22	Sierra Leone	20.5	20.6	20.7	20.8	21.0	21.1	21.2	21.5	21.8	22.1	22.3	22.3	22.3	22.2	22.2	22.4	22.8	0.0
23	Togo	13.6	14.1	14.6	15.2	15.7	16.3	16.9	17.5	18.2	18.9	19.6	20.4	21.1	21.9	22.8	23.6	24.4	0.0
	West Moist Africa	1,038.1	1,034.1	1,031.2	1,027.5	1,028.7	1,032.5	1,037.3	1,047.4	1,059.4	1,073.0	1,073.4	1,062.1	1,052.2	1,044.5	1,029.2	1,020.0	1,113.7	0.0
24	Burundi	15.0	15.4	15.9	16.3	16.8	17.3	17.9	18.5	19.1	20.6	22.3	24.2	26.1	28.1	30.3	32.8	35.6	0.0
25	Cameroon	57.0	59.0	59.8	61.5	63.2	64.9	66.7	68.5	70.4	72.3	73.2	74.0	74.9	75.8	76.7	77.6	86.2	0.0
26	Central African Rep.	12.9	13.2	13.5	13.8	14.1	14.5	14.8	15.2	15.6	15.9	16.3	16.7	17.1	17.5	17.9	18.2	18.6	0.0
27	Congo, Dem. Rep.	170.9	176.6	182.7	189.3	188.4	188.2	188.8	190.4	193.2	197.3	203.2	197.3	200.3	211.2	230.0	256.5	290.7	0.0
28	Congo, Rep.	9.3	9.6	9.8	10.1	10.4	10.7	11.1	11.4	11.7	12.1	12.5	12.9	13.3	13.7	14.1	14.5	16.0	0.0
29	Equatorial Guinea	1.3	1.3	1.4	1.5	1.6	1.6	1.5	1.5	1.4	1.3	1.3	1.3	1.4	1.5	1.6	1.8	2.0	0.0
30	Gabon	3.4	3.5	3.6	3.7	3.7	3.7	3.8	3.8	3.8	3.9	3.9	4.0	4.2	4.3	4.5	4.6	5.2	0.0
31	Rwanda	19.3	19.9	20.5	21.2	21.9	22.7	23.7	24.8	25.8	27.1	28.4	29.8	29.3	28.4	28.1	29.2	32.2	0.0
32	Sao Tome and Principe	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.0	0.0
33	Uganda	102.1	109.9	118.3	127.4	137.1	147.7	153.4	159.5	165.9	172.7	179.9	186.6	193.7	185.7	179.2	175.0	172.2	164.6
	Central Africa	391.9	409.2	426.3	445.5	457.9	472.1	482.4	494.3	507.6	524.1	541.8	547.7	561.1	567.1	583.3	611.1	659.8	164.6
34	Angola	35.6	37.3	38.8	41.0	43.4	46.3	49.4	53.0	56.9	61.4	66.6	69.4	72.4	75.5	78.9	82.6	86.5	0.0
35	Botswana	8.5	8.7	9.0	9.3	9.6	9.9	10.3	10.6	10.9	11.3	11.6	12.0	12.4	12.7	13.0	13.3	13.7	0.0
36	Malawi	100.9	95.8	91.1	86.9	83.2	80.2	79.8	80.1	81.0	82.2	83.5	84.0	84.3	84.3	84.4	84.7	85.2	0.0
37	Mozambique	110.4	112.4	114.3	116.0	117.2	117.9	117.8	117.2	116.5	116.6	117.9	121.3	124.9	128.5	132.3	136.2	138.5	0.0
38	Namibia	8.3	8.5	8.7	8.9	9.1	9.3	9.6	9.8	10.0	10.2	10.5	10.8	11.0	11.3	11.5	11.8	12.1	0.0
39	Saint Helena	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	Tanzania, United Rep.*	186.9	202.1	251.8	246.5	241.6	237.0	232.7	229.0	225.3	222.0	219.2	226.1	233.4	241.2	249.5	259.6	290.7	0.0
41	Zambia	85.1	89.6	88.1	87.3	86.8	86.6	85.9	85.4	85.1	84.9	85.1	84.6	84.0	83.5	83.1	82.6	91.5	0.0
42	Zimbabwe	59.2	63.4	68.3	67.7	67.1	66.5	66.0	65.6	65.2	65.0	64.9	67.8	70.7	73.8	85.0	75.9	81.4	0.0
	Tropical Southern Africa	595.0	617.9	670.2	663.6	658.1	653.8	651.5	650.6	651.0	653.6	659.3	675.9	693.1	711.0	737.8	746.6	799.5	0.0
43	Comoros	3.4	3.5	3.7	3.8	3.9	4.0	4.1	4.3	4.4	4.5	4.7	4.8	5.0	5.2	5.3	5.5	5.7	0.0
44	Madagascar	34.6	36.6	38.8	41.1	43.7	46.4	49.3	52.4	55.8	59.4	63.3	67.4	71.9	76.6	81.7	87.1	93.0	0.0
45	Mauritius	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
46	Reunion	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
47	Seychelles	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
	Insular East Africa	39.2	41.3	43.6	46.0	48.6	51.5	54.5	57.8	61.3	65.0	69.0	73.3	77.9	82.8	88.0	93.6	99.7	0.0
	Total Tropical Africa	2,794.9	2,867.5	2,998.9	2,949.7	2,968.4	2,979.9	3,003.4	3,052.3	3,095.6	3,150.3	3,198.8	3,232.5	3,278.6	3,321.8	3,381.5	3,442.6	3,698.4	164.6
48	Algeria	5.5	5.9	6.4	6.9	7.4	8.0	8.6	9.3	10.1	10.3	10.6	10.9	11.2	11.5	11.8	12.1	12.5	0.0
49	Egypt	1.9	2.2	2.5	2.8	3.2	3.6	4.1	4.7	5.3	6.0	6.8	7.8	12.2	12.6	12.4	13.4	14.7	0.0
50	Libyan Arab Jamahiriya	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.7	3.0	3.1	3.1	3.2	3.3	0.0
51	Morocco	72.1	72.8	73.6	74.4	75.2	76.1	77.0	78.0	79.4	80.6	81.7	82.9	83.3	83.4	84.0	85.3	86.7	0.0
52	Tunisia	22.5	21.4	20.4	19.5	18.7	18.9	19.2	19.5	19.8	20.1	20.5	20.9	21.4	21.9	22.4	22.9	23.4	24.0
	North Africa	103.8	104.1	104.8	105.7	106.7	108.8	111.2	113.8	117.0	119.6	122.3	125.2	131.1	132.5	133.8	136.9	140.6	24.0
53	Lesotho	5.9	6.1	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.9	9.1	0.0
54	South Africa	190.9	195.0	199.3	203.8	207.3	211.3	215.3	219.7	224.1	237.0	241.5	245.7	251.2	255.8	220.7	198.9	178.1	148.3
55	Swaziland	6.1	6.2	6.3	6.6	6.8	6.8	7.0	7.1	7.2	7.1	7.1	7.6	7.8	8.6	8.8	9.0	9.1	0.0
	Non tropical Southern Africa	202.9	207.3	211.8	216.9	220.7	225.0												

		Table A.W.TE-CO2 : TE-CO2 emissions due to Woodfuel use																
Region	1000 MT																	
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
West Sahelian Africa	28,013	26,803	30,029	29,504	29,240	29,199	29,353	29,678	30,645	31,807	33,200	34,444	36,027	37,030	38,757	40,289	41,899	
East Sahelian Africa	110,981	118,695	127,664	116,319	118,195	117,250	118,489	122,762	124,466	126,802	129,391	131,672	134,151	137,439	140,912	144,799	153,556	
West Moist Africa	201,655	200,820	200,176	199,378	199,521	200,171	201,059	202,974	205,248	207,817	207,793	205,457	203,397	201,736	198,583	196,597	214,655	
Central Africa	75,784	79,101	82,383	86,059	88,401	91,064	92,987	95,200	97,676	100,751	104,060	105,568	108,421	109,770	113,045	118,529	127,963	
Tropical Southern Africa	114,484	118,918	129,112	127,799	126,695	125,816	125,318	125,099	125,098	125,539	126,580	129,773	133,077	136,536	141,722	143,399	153,515	
Insular East Africa	7,485	7,883	8,307	8,762	9,258	9,790	10,361	10,973	11,626	12,329	13,080	13,880	14,734	15,648	16,621	17,667	18,785	
North Africa	19,992	20,054	20,182	20,354	20,541	20,950	21,404	21,899	22,512	23,000	23,508	24,056	25,116	25,383	25,644	26,248	26,948	
Non tropical Southern A	39,010	39,849	40,715	41,692	42,426	43,235	44,068	44,958	45,871	48,368	49,288	50,228	51,349	52,446	45,639	41,445	37,430	
Total	597,404	612,124	638,568	629,867	634,278	637,475	643,038	653,544	663,142	676,412	686,901	695,078	706,272	715,987	720,923	728,972	774,751	