Various Countries' Historical Data for Charcoal (1000 T)

1. Burkina Faso

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	7	8	8	9	10	11	13	14	15	17	19	21	23	26	28	31	35	
FAO	20	21	21	22	23	23	24	25	25	26	27	28	28	29	30	31	31	
IEA																0	0	
ESMAP	0	0	0	10	0	0	0	14	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	45	0	0	0	0	0	0	0	0	0	
Other data	7	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	
Sources of data adopted as BE	FAOL35							FAOL35										
Other sources of data								11,000 T (OD15)										

2. Cape Verde

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources of data adopted as BE																		

3. Chad

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	27	29	32	36	39	43	47	52	57	63	69	76	84	93	102	113	125	
FAO	334	342	350	359	367	375	383	390	398	406	415	425	436	448	460	473	489	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	57	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	0	0	
Sources of data adopted as BE								OD22										

4. Gambia

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FAO	39	40	41	42	44	45	47	49	51	54	56	58	61	63	66	68	70	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.																		

The use of the charcoal is forbidden for many years

5. Guinea-Bissau

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	10	12	13	15	17	19	22	25	29	33	38	43	49	56	65	74	85	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	24	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	24	0	0	0	0	186	0	0	0	0	
Sources of data adopted as BE								OD22										
Other sources of data													20,700 T for urban pop. in 1992 (FAOL7)					

6. Mali

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	38	40	42	44	47	50	53	56	59	62	66	70	74	78	83	88	93	
FAO	4	5	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	50	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	56	0	0	0	0	74	0	0	0	0	

BE : 1 T charcoal = 1 T wood. Other Data : 1 T charcoal = 7 T wood.

Sources of data adopted as BE: FAOL36 (1987), FAOL36 (1992)

Other sources of data: 11,000 T in 1987 (OD22)

Various Countries' Historical Data for Charcoal (1000 T)

7 Mauritania / Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	98	102	105	109	113	118	122	126	131	136	141	146	152	157	163	170	176	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	24	0	0	0	0	74	0	0	0	0	0	0	0	0	
ENDA/IEPE	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.								OD22										

Reference Data recorded as Best Estimates (BE) for years 1989. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use the same Per Capita consumption growth recorded for Mali; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

8 Niger / Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

9 Senegal / Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	157	166	176	186	197	208	220	242	265	291	320	326	333	340	347	354	
FAO	98	82	71	105	106	150	170	150	120	90	150	136	114	114	100	75	90	
IEA																121	124	
ESMAP	0	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	199	160	232	0	332	0	340	0	0	
Other data	0	0	0	0	0	0	0	220	199	281	300	320	339	333	340	121	0	

IEA : 1 T charcoal = 11.1 T wood. Other Data : 1 T charcoal = 5.5 T wood

Sources, notes: OD22 FAOL33 (1987); FAOL33 (1989); FAOL34 (1990); FAOL35 (1991); FAOL36 (1992)

Other sources of data: 262,000 T (FAOL33) (1988)

Other sources of data (continued): 213,000 T (OD25-IEA20) (1988); 249,000 T (OD25-IEA20) (1990); 356,000 T (OD25-IEA20) (1992); 364,000 T (OD25-IEA20) (1994)

Reference Data recorded as Best Estimates (BE) for years 1981-87-91-93 and 1994. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth from 1995 and 96 was simulated using the average Per Capita Consumption growth recorded within 1990 and 1993.

10 Djibouti / Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						1	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.																		

Reference Data recorded as Best Estimates (BE) for years 1985. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

11 Eritrea / Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14	14	15	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15	16	16	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.																		

Data related to charcoal was simulated using the similar Per Capita consumption as Ethiopia.

12 Ethiopia / Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	174	178	183	187	192	197	203	209	216	222	229	237	244	238	246	254	262	
FAO	189	194	199	204	209	214	220	226	233	240	247	254	262	259	267	276	277	
IEA																235	241	
ESMAP	0	0	149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	244	0	0	0	0	

IEA : 1 T charcoal = 8.8 T wood

Sources, notes: EA16 EA28 (1992)

Reference Data recorded as Best Estimates (BE) for years 1992. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

Various Countries' Historical Data for Charcoal (1000 T)

13 Kenya

Country/ Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	821	856	894	937	866	885	981	1,152	1,230	1,284	1,285	1,286	1,287	1,287	1,287	1,288	1,369	
FAO	1,280	1,328	1,377	1,426	1,472	1,530	1,583	1,638	1,694	1,750	1,807	1,865	1,923	1,981	2,037	2,090	2,243	
IEA																1,288	1,368	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	821	0	0	937	797	885	944	1,062	1,168	1,284	0	0	0	0	0	0	0	
Other data adopted as BE	FAOL15-IEA10-IEA31-IEA35			FAOL20		IEA20-IEA25-IEA53-IEA56	IEA20-IEA53			IEA20-IEA25-IEA53-IEA56								
Other sources of data	763,000 T : FAOL20				IEA56-IEA25	765,000 T FAOL23	923,000 IEA25-IEA56	IEA20-IEA53	IEA25-IEA56 IEA53-IEA56									

IEA : 1 T charcoal = 8.9 T wood,

14 Somalia

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	64	69	75	81	87	92	97	102	107	112	117	123	129	135	142	151	161	
FAO	100	104	108	111	115	118	120	123	125	127	129	131	133	135	138	142	142	
IEA																0	0	
ESMAP	0	0	0	0	87	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Sources, notes, Comments, etc.

15 Sudan

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	2,612	2,596	2,567	2,537	2,508	2,480	2,451	2,424	2,396	2,369	2,342	2,316	2,290	2,264	2,239	2,215	2,362	
FAO	765	788	811	834	857	879	901	923	944	965	986	1,007	1,028	1,050	1,072	1,094	1,183	
IEA																2,216	2,363	
ESMAP	0	2,615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,375	0	0	

FAOL26 (1994)

IEA : 1 T charcoal = 8.9 T wood

16 Benin

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	17	16	16	16	15	15	15	15	14	14	14	13	13	13	13	12	12	
FAO	31	32	33	34	35	36	37	38	39	40	42	43	44	45	47	48	50	
IEA																15	16	
ESMAP	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	14	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

IEA : 1 T charcoal = 8.9 T wood

Other data adopted as BE

Other data : 1976: 11,000 T (FAOL5)

17 Côte D'Ivoire

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	163	187	215	250	292	343	380	427	480	540	609	689	780	884	1,000	1,129	1,271	
FAO	141	147	153	158	164	171	177	183	189	195	202	209	215	221	220	233	253	
IEA																98	628	
ESMAP	0	0	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	610	0	0	0	0	0	0	0	
Other data	0	0	129	0	0	343	380	424	0	0	609	0	0	0	0	0	0	
						OD35	OD35	OD35			OD6/OD7							

BE : 1 T charcoal = 8 T wood, IEA : 1 T charcoal = 8.9 T wood.Other Data : 1 T charcoal = 8 T wood

18 Ghana

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	400	411	423	435	447	460	454	448	443	437	432	426	421	416	411	406	400	
FAO	384	398	431	491	507	508	509	527	529	533	533	752	752	752	752	752	752	
IEA																392	524	
ESMAP	0	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	424	460	0	0	0	0	0	0	0	0	0	775	0	
					FAOL20	FAOL20										IEA17		

IEA : 1 T charcoal = 9 T wood

Other data : 1975: 347,000 T (FAOL20)

Various Countries' Historical Data for Charcoal (1000 T)

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
19 Guinea	Best estim	64	68	71	75	79	81	82	84	85	87	94	102	110	120	130	139	147	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	30	57	66	22	22	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	75	0	0	0	0	0	0	0	
	Other data	0	0	0	0	69	0	0	0	0	0	0	0	0	0	130	0	0	
	Sources, notes, Comments, etc.					FAOL31										OD14			
	Other data :					88,000 T (OD34)													

Reference Data recorded as Best Estimates (BE) for years 1984-89 and 1994. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth beyond 1994 was simulated using the average Per Capita Consumption growth recorded within 1989 and 1994.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
20 Liberia	Best estim	82	88	94	100	107	110	115	119	123	125	129	130	127	124	123	127	139	
	FAO	266	274	282	290	300	311	325	341	356	364	365	354	335	314	300	301	445	
	IEA																0	0	
	ESMAP	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.										FAOL11								
	Other data :					88,000 T (OD34)					65,000 T (FAOL9)								

Reference Data recorded as Best Estimates (BE) for years 1983. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use the same Per Capita consumption growth recorded for Guinea; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
21 Nigeria	Best estim	277	295	315	338	364	384	396	411	428	445	476	511	551	595	645	700	782	
	FAO	993	1,022	1,051	1,082	1,113	1,146	1,179	1,214	1,250	1,288	1,326	1,367	1,401	1,440	1,485	1,540	1,570	
	IEA																700	782	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA : 1 T charcoal = 8.9 T wood																		

Reference Data recorded as Best Estimates (BE) for years 1995 and 1996. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth before 1995 was simulated using the aggregate average Per Capita Consumption growth recorded for Benin, Cote d'Ivoire, Ghana, Guinea and Liberia.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
22 Sierra Leone	Best estim	58	57	57	58	58	59	61	62	64	66	67	69	70	71	73	75	78	
	FAO	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	9	
	IEA																0	0	
	ESMAP	0	0	0	0	58	0	61	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

Reference Data recorded as Best Estimates (BE) for years 1984 and 1986. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
23 Togo	Best estim	48	51	53	56	59	63	66	70	74	78	83	87	92	98	103	109	115	
	FAO	0	0	0	0	0	0	0	0	0	0	0	51	50	100	190	220	220	
	IEA																0	0	
	ESMAP	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	200	0	0	0	0	0	0	0	
	Other data	0	51	53	56	59	63	66	70	74	78	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.		OD15	OD15	OD15	OD15	OD15	OD15	OD15	OD15	OD15								

Reference Data recorded as Best Estimates (BE) for years 1981-82-83-84-85-86-87-88 and 1989. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
24 Burundi	Best estim	33	35	36	37	39	40	42	43	45	45	47	50	51	52	54	56	58	
	FAO	10	10	10	11	11	11	12	12	13	13	13	14	14	14	14	15	16	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	45	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

Reference Data recorded as Best Estimates (BE) for years 1988. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use the same Per Capita consumption growth recorded for Rwanda (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

Various Countries' Historical Data for Charcoal (1000 T)

25 Cameroon

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	37	39	42	44	46	49	51	54	57	60	63	67	70	74	78	82	87	
FAO	0	0	141	146	150	155	160	165	171	176	182	182	182	182	182	182	182	
IEA																82	87	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	60	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

IEA : 1 T charcoal = 9.2 T wood

Reference Data recorded as Best Estimates (BE) for years 1989-95 and 1996. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth before 1989 was simulated using the average Per Capita Consumption growth recorded within 1989 and 1995.

26 Central African Rep.

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

27 Congo, Dem. Rep.

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	433	481	535	595	662	737	820	913	1,017	1,132	1,260	890	630	447	319	228	257	
FAO	0	0	0	0	0	460	470	462	536	457	472	472	472	472	472	472	472	
IEA																216	244	
ESMAP	0	0	0	595	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	1,250	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

IEA : 1 T charcoal = 8.7 T wood

Othe sources : 1975 : 476,000 T (FAOL3)

Reference Data recorded as Best Estimates (BE) for years 1983-90-95 and 1996. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth before 1983 was simulated using the average Per Capita Consumption growth recorded within 1983 and 1990.

28 Congo, Rep.

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	8	8	9	9	9	10	10	10	11	11	12	12	12	13	13	14	15	
FAO	1	1	1	2	1	2	2	2	4	3	3	1	1	1	1	1	1	
IEA																14	15	
ESMAP	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	10	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

IEA : 1 T charcoal = 8.9 T wood

Reference Data recorded as Best Estimates (BE) for years 1995 and 1996. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using the same Per Capita consumption growth recorded for Rwanda; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

29 Equatorial Guinea

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

30 Gabon

Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IEA																0	0	
ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

Various Countries' Historical Data for Charcoal (1000 T)

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
31 Rwanda	Best estim	28	29	30	32	33	34	36	38	40	40	40	40	37	34	32	32	34	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	40	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	40	0		139	0	0	0	
	Sources, notes, Comments, etc.												S27 S51						

Reference Data recorded as Best Estimates (BE) for years 1988 and 1991. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
32 Sao Tome and Princip	Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
33 Uganda	Best estim	230	241	254	267	280	295	310	327	344	363	383	385	388	391	394	430	470	400
	FAO	104	107	110	112	115	118	120	123	126	129	133	137	142	147	152	157	175	
	IEA																0	0	
	ESMAP	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	240	0	0	0	0	0	0	0	0	0	282	0	0	0	394	0	0	400
BE : 1 T charcoal = 6.6 T wood. Other Data : 1 T charcoal = 6.6 T wood		FAOL15														IEA19			IEA19

Reference Data recorded as Best Estimates (BE) for years 1980-90-94 and 1997. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
34 Angola	Best estim	157	180	207	237	272	313	359	412	473	543	624	663	706	751	800	853	909	
	FAO	138	143	147	151	154	157	161	165	169	174	179	179	179	179	179	179	179	
	IEA																668	733	
	ESMAP	0	0	0	0	0	0	0	524	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	77	0	0	0	0	0	0	0	
	Other data	154	0	0	0	0	0	0	0	0	0	620	0	0	751	0	0	0	
IEA : 1 T charcoal = 7.55 T wood		IEA11										IEA46			IEA49				

Reference Data recorded as Best Estimates (BE) for years 1980-90 and 1993. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth beyond 1993 was simulated using the average Per Capita Consumption growth recorded within 1990 and 1993.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
35 Botswana	Best estim	23	23	24	25	26	27	28	29	30	31	32	33	33	34	35	36	37	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	
1973 : 15 kt 1974 : 16 kt 1976 : 21 kt					FAOL20							IEA46				IEA15		

Reference Data recorded as Best Estimates (BE) for years 1973-74-75 and 1983. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth within the period 1975-79 was simulated using the Per Capita Consumption of 1974. Per Capita Consumption growth within the period 1980-96 was simulated using the Per Capita Consumption of 1983.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
36 Malawi	Best estim	205	211	216	222	230	240	253	269	285	299	309	315	317	317	318	320	326	
	FAO	5	5	5	6	6	6	6	7	7	8	8	8	8	8	8	8	10	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	309	0	0	0	130	0	0	
	Sources, notes, Comments, etc.											IAE46				IAE15			

Reference Data recorded as Best Estimates (BE) for years 1990. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
37 Mozambique	Best estim	342	343	344	344	342	339	334	327	320	315	314	319	323	328	333	338	334	
	FAO	71	78	102	95	95	95	98	100	100	100	100	100	100	100	100	100	100	
	IEA																338	334	
	ESMAP	0	29	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	20	0	0	0	0	0	0	0	
	Other data	957	0	0	0	0	0	0	0	0	0	314	0	0	0	0	0	0	
IEA : 1 T charcoal = 8.9 T wood	Other data adopted as BE											(IEA46)							
	Other sources of data :	449,000 T (IEA12)				49,000 T (IEA26)						353,000 T (IEA58)							

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997

Reference Data recorded as Best Estimates (BE) for years 1990-95 and 1996. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth before 1990 was simulated using the average Per Capita Consumption growth recorded within 1990 and 1995.

		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
38 Namibia	Best estim	5	5	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	7	7	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
39 Saint Helena	Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
40 Tanzania, United Rep.	Best estim	280	288	297	306	315	325	335	345	356	367	379	385	392	398	405	412	509	
	FAO	108	113	116	120	124	129	133	138	143	148	153	158	48	51	101	101	101	
	IEA																375	472	
	ESMAP	0	294	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	639	272	0	0	0	1,535	0	0	0	0	379	0	0	0	0	0	0	
IEA : 1 T charcoal = 9 T wood	Sources, notes, Comments, etc.		(IEA21)									(IEA46)							
	Other sources of data : 1970 : 78,000 T (IEA43) 1970 : 99,000 T (IEA38)	640,000 T (IEA12)	476 kt (FAOL15-FAOL20)																

Reference Data recorded as Best Estimates (BE) for years 1981-86-90-95 and 1996. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
41 Zambia	Best estim	767	750	731	711	692	674	657	640	624	608	593	579	566	553	541	529	586	
	FAO	649	682	715	753	790	835	878	878	878	894	924	953	982	1,008	1,039	1,041	1,041	
	IEA																505	562	
	ESMAP	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	671	0	0	1,337	0	575	0	0	0	0	0	0	
IEA : 1 T charcoal = 8.9 T wood	Sources, notes, Comments, etc.						FAOL18			IEA32		IEA46							
	Other sources of data :	497,000 T (IEA12)								1,913,000 T (IEA59)		651,000 T (IEA33) & 684,000 (IEA59bis)							

Reference Data recorded as Best Estimates (BE) for years 1985-90-95 and 1996. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption growth during the period 80-85 was simulated using the average Per Capita Consumption growth recorded during the period 1985-1995.

		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
42 Zimbabwe	Best estim	6	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	
	FAO	1	1	2	1	1	2	1	1	2	2	2	2	2	2	2	2	2	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

Reference Data recorded as Best Estimates (BE) for years 1988. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
43 Comoros	Best estim	43	44	46	47	49	50	52	53	55	57	58	60	62	64	66	68	70	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

Reference Data recorded as Best Estimates (BE) for years 1985. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

	Country/	Source	Various Countries' Historical Data for Charcoal (1000 T)																	
			1980	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**
44	Madagascar	Best estim	127	140	154	170	188	208	230	254	280	310	343	378	418	461	509	562	620	
		FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	133	249	249	249	
		IEA																0	0	
		ESMAP	0	0	0	170	0	0	0	0	0	0	0	0	0	0	0	0	0	
		ENDA/IEPE						0	0	0	0	310	0	0	0	0	0	0	0	
		Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Sources, notes, Comments, etc.																		
		Othe sources : 1976 : 65,000 T (FAOL2)																		

Reference Data recorded as Best Estimates (BE) for years 1983 and 1989. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

	Country/	Source	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**
45	Mauritius	Best estim	1.17	1.18	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.32	1.33	1.35	1.36	
		FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		IEA																0	0	
		ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
		Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	
		Sources, notes, Comments, etc.																IEA18		

Reference Data recorded as Best Estimates (BE) for years 1995. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

	Country/	Source	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**
46	Reunion	Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	
		IEA																0	0	
		ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
		Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

	Country/	Source	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**
47	Seychelles	Best estim	11	11	11	11	11	11	12	12	12	12	12	13	13	13	13	13	13	
		FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		IEA																0	0	
		ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
		Other data	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	
		Sources, notes, Comments, etc.									IEA47									

Reference Data recorded as Best Estimates (BE) for years 1988. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

	Country/	Source	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**
48	Algeria	Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		IEA																0	0	
		ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
		Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

	Country/	Source	**1980**	**1981**	**1982**	**1983**	**1984**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**
49	Egypt	Best estim	0	0	0	0	0	0	0	0	0	0	0	0	61	46	19	9	0	
		FAO	0	0	0	0	0	0	0	0	0	0	0	0	61	46	19	9	0	
		IEA																0	0	
		ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
		Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Sources, notes, Comments, etc.																		

Only FAO reported an imported Charcoal consumption within 1992 and 1996. This means that Charcoal is effectively consumed in Egypt and may be even produced, therefore the consumption might be higher than what was reported by FAO. On the other hand, the variation on the charcoal imports among the 4 concerned years is not really justified, and proved that the data is not that accurate, and even that there should be a national production or other imports quantities. The high level of uncertainty prevented to undertake any simulation work as to complete the time series.

Sectorial distribution of charcoal consumption was derived using the aggregated sectorial distribution of Tunisia and Morocco.

Various Countries' Historical Data for Charcoal (1000 T)

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
50 Libyan Arab Jamahiriya	Best estim	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	0	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
51 Morocco	Best estim	109	118	127	138	149	161	174	189	205	222	240	260	281	304	329	356	385	
	FAO	74	58	59	86	86	86	86	86	86	86	86	86	86	86	86	100	88	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	238	0	0	0	0	0	0	0	
	Other data	0	107	0	0	0	120	0	0	0	0	240	0	0	0	0	0	0	
	Sources, notes, Comments, etc.		FAOL20									OD30							
							63,000 T (OD29)												

Reference Data recorded as Best Estimates (BE) for years 1981 and 1990. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
52 Tunisia	Best estim	177	170	165	159	153	153	152	152	152	151	151	150	150	149	149	149	148	148
	FAO	107	109	112	115	118	121	124	127	130	132	135	138	140	143	146	149	150	
	IEA																0	153	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	146	0	0	0	0	0	0	0	0	0	0	0	0	148
IEA : 1 T charcoal = 5.6 T wood. BE : 1 T charcoal = 5 T wood						OD2													OD4

Reference Data recorded as Best Estimates (BE) for years 1973-84 and 1997. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
53 Lesotho	Best estim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sources, notes, Comments, etc.																		

No charcoal data. This might mean that this energy is not consumed at all or, more probably that the consumption is not significant and was as a result not reported in any reference.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
54 South Africa	Best estim	631	648	664	681	698	715	732	749	767	784	802	821	839	858	878	898	918	938
	FAO	31	7	17	10	13	13	13	13	13	13	13	13	25	35	20	26	26	
	IEA																0	2,329	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	938
BE : 1 T charcoal = 11.4 T wood, IEA : 1 T charcoal = 11.6 T																			IEA23

Reference Data recorded as Best Estimates (BE) for years 1997. Time series reconstitution made through 3 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Use a uniform Per Capita consumption for the other years; (iii) Multiply the calculated Per Capita by the population as to fill in the gaps.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
55 Swaziland	Best estim	7	8	8	8	8	9	9	9	9	10	10	10	10	20	21	21	22	
	FAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	IEA																0	0	
	ESMAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ENDA/IEPE						0	0	0	0	0	0	0	0	0	0	0	0	
	Other data	0	0	0	0	0	0	0	0	0	0	8	0	0	18	0	0	0	
	Sources, notes, Comments, etc.											IEA46			IEA49				

Reference Data recorded as Best Estimates (BE) for years 1990 and 1993. Time series reconstitution made through 4 steps : i/ Calculate the Per Capita Consumption of these reference years, (ii) Calculate Per Capita consumption of the intermediate years using a composed serie equation;(iii) Multiply the calculated Per Capita by the population as to fill in the gaps; (iv) Use the same approach for the years that are out of the reference scope unless otherwise specified

NB : Per Capita Consumption was simulated using the Per Capita Consumption of 1993 beyond 1993, and the Per Capita Consumption of 90 Before 1993.

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
56 Oth. Africa	Best estim																		
	FAO																		
	IEA																1,213	1,141	
	ESMAP																		
	ENDA/IEPE																		
	Other data																		

Various Countries' Historical Data for Charcoal (1000 T)

Country/	Source	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
TOTAL AFRICA	Best estim	8,620	9,001	9,244	9,517	9,707	10,012	10,378	10,858	11,290	11,733	12,191	12,114	12,206	12,334	12,534	12,867	13,799	1,486
	FAO	5,950	6,097	6,477	6,777	6,989	7,708	7,951	8,118	8,342	8,424	8,700	9,136	9,266	9,643	10,028	10,185	10,659	0
	IEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,475	12,116	0
	ESMAP	230	3,365	364	914	166	510	61	631	115	0	0	0	0	0	0	0	0	0
	ENDA/IEPE						1	0	69	341	1,884	1,482	0	332	0	340	0	0	0
	Other data	2,818	430	182	1,018	1,495	2,542	2,925	1,968	2,798	1,723	3,643	367	843	1,241	2,369	897	0	1,486

Best Estimates : 1 CUM wood = 0.725 T wood, and 1 T charcoal = 6 T wood unless otherwise indicated in these tables or in the corresponding database

FAO : 1 CUM wood = 0.725 T wood, and 1 T charcoal = 6 CUM

IEA : Original data provided in toe terms. Conversion were made using the following factors :
1 CUM wood = 0.725 T wood
* Fuelwood : 1 T = 0.328 toe, 1 PJ = 41.868 / 10^6 toe
* Charcoal : 1 T = 0.733 toe, 1 PJ = 41.868 / 10^6 toe. ; Conversion efficiency from wood to charcoal is indicated in the notes mentioned under each country data and in the corresponding database.
Other Africa : 1 T charcoal = 8.9 T wood

ESMAP : 1 CUM wood = 0.725 T wood, and 1 T charcoal = 6 T wood unless otherwise indicated in these tables or in the corresponding database

ENDA : 1 CUM wood = 0.725 T wood, and 1 T charcoal = 6 T wood unless otherwise indicated in these tables or in the corresponding database

Other various sources of data : 1 CUM wood = 0.725 T wood, and 1 T charcoal = 6 T wood unless otherwise indicated in these tables or in the corresponding database