



Annex 1: Data on Commonwealth Countries

Annex 1.1: Land Area and Population, 2006

Country	Land area (000 ha)	Population (000)	Country	Land area (000 ha)	Population (000)
Africa					
Botswana	56,673	1,858	Guyana	19,685	739
Cameroon	46,540	18,174	Total Commonwealth Central & North America	931,317	33,596
Gambia	1,000	1,663	Total Commonwealth Americas	934,236	38,828
Ghana	22,754	23,008	South Asia		
Kenya	56,914	36,553	Bangladesh	13,017	155,990
Lesotho	3,035	1,994	India	297,319	1,151,751
Malawi	9,408	13,570	Maldives	30	300
Mauritius	203	1,251	Pakistan	77,088	160,943
Mozambique	78,638	20,971	Sri Lanka	6,463	19,207
Namibia	82,329	2,046	Total Commonwealth South Asia	393,917	1,488,191
Nigeria	91,077	144,719	Total South Asia	412,917	1,516,480
Seychelles	46	86	South-east Asia & Pacific		
Sierra Leone	7,162	5,742	Australia	768,230	20,530
South Africa	121,447	48,282	Brunei Darussalam	527	381
Swaziland	1,720	1,133	Fiji	1,827	833
Uganda	19,710	29,898	Kiribati	81	93
United Republic of Tanzania	88,580	39,458	Malaysia	32,855	26,113
Zambia	74,339	11,696	Nauru	2	10
Total Commonwealth Africa^a	761,575	402,102	New Zealand	26,771	4,139
Total Africa	2,963,666	943,453	Papua New Guinea	45,286	6,201
Americas			Samoa	283	185
Antigua & Barbuda	44	84	Singapore	69	4,381
Bahamas	1,001	327	Solomon Islands	2,799	484
Barbados	43	292	Tonga	72	99
Dominica	75	67	Tuvalu	3	10
Grenada	34	105	Vanuatu	1,219	220
Jamaica	1,083	2,698	Total South-east Asia & Pacific^c	880,024	63,679
St Kitts & Nevis	26	49	Europe		
St Lucia	61	163	Cyprus	924	845
St Vincent & the Grenadines	39	119	Malta	32	404
Trinidad & Tobago	513	1,328	United Kingdom ^d	24,269	60,738
Total Commonwealth Caribbean^b	2,919	5,232	Total Commonwealth Europe^e	25,225	61,987
Belize	2,281	281	Total Commonwealth	2,994,977	2,054,787
Canada	909,351	32,576	Total World	13,013,868	6,592,998

Source: State of the World's Forests 2009, FAO, Rome.

The regional groupings in Table 1.1 (and other tables) are those used by the Commonwealth; they do not always correspond with those of the UN, hence the absence of FAO regional totals for the Caribbean, North & Central America, South-east Asia & the Pacific and Europe.

This and other tables exclude the Falkland Islands and South Georgia, and the Sandwich Islands, since neither have any forest. But they include:

a British Indian Ocean Territory and St Helena;

b British Virgin Islands;

c Pitcairn Island;

d Channel Islands and Isle of Man;

e Gibraltar.

Rwanda joined the Commonwealth as its 54th member at the Commonwealth Heads of Government meeting in November 2009. Its area in 2006 was 2.47 M ha with a population of 9.5 million.



Annex 1.2: Socio-economic Indicators Related to the Forestry Sector, 2006

The following data give some social and economic indicators related to the forest sector of each Commonwealth country in the year 2006:

- Total population (thousands), population growth (%/year) and population density (people per square kilometre) may be linked to pressure on forests;
- Urban population (percentage of the total population) and urban population growth (%/year) reflect movement from rural areas to the towns and cities, and thus a

reduction in shifting cultivation, but a possible shift from wood as domestic fuel to charcoal;

- GDP, in US\$/head at the 2007 exchange rate, is related to increased demand for wood products, either as sawn timber, panels or processed wood as paper or board;
- Internet usage (number of users/100 people) relates to the spread of education and the ease of communication;
- CO₂ emissions (thousands of tonnes and tonnes/head) reflect part of the contribution that a country makes to global warming.

Country	Population (000)	Population growth, 2005-10 (%/year)	Population density (people/sq km)	Urban population (%)	Urban population growth, 2000-05 (%/year)	GDP (US\$/head)	Internet usage (users/100 people)	CO ₂ emissions (000 mt and mt/head)
Africa								
Botswana	1,882	1.2	3.2	57	1.6	4,755	3.4	4,301/2.4
Cameroon	18,549	2.0	39.0	55	3.7	1,019	2.2	3,839/0.2
Gambia	1,709	2.6	151.3	54	4.7	307	3.8	286/0.2
Ghana	23,478	2.0	98.4	48	3.8	532	2.7	7,190/0.3
Kenya	37,538	2.7	64.7	21	3.2	650	7.9	10,588/0.3
Lesotho	2,008	0.6	66.1	19	1.0	725	2.9	n.a.
Malawi	13,925	2.6	117.5	17	4.8	164	0.5	1,045/0.1
Mauritius	1,262	0.8	618.5	42	0.8	5,124	24.1	3,197/2.6
Mozambique	21,397	1.9	26.8	35	4.3	349	0.9	2,167/0.1
Namibia	2,074	1.3	2.5	35	3.0	3,084	4.0	2,471/1.2
Nigeria	148,093	2.3	160.3	48	4.1	917	6.0	114,025/0.8
Rwanda	9,725	2.8	369.2	19	9.2	242	0.7	572/0.1
Seychelles	87	0.5	190.4	53	1.6	8,209	35.7	546/6.4
Sierra Leone	5,866	2.0	81.8	41	6.0	318	0.2	994/0.2
South Africa	48,577	0.6	39.8	59	1.6	5,133	10.8	437,032/9.2
Swaziland	1,141	0.6	65.7	24	0.9	2,399	4.0	957/0.9
Uganda	30,884	3.2	128.1	13	4.2	346	2.5	1,826/0.1
United Republic of Tanzania	40,454	2.5	42.8	24	3.6	335	1.0	4,352/0.1
Zambia	11,922	1.9	15.8	35	1.9	938	4.2	2,288/0.2
Americas (Caribbean)								
Antigua & Barbuda	85	1.3	192.6	39	2.2	11,437	35.6 (2005)	414/5.1
Bahamas	331	1.2	23.9	90	1.7	18,965	31.9	2,009/6.3
Barbados	294	0.3	683.5	53	1.4	11,765	59.5	1,269/4.4
Dominica	67	0.3	89.7	73	0.8	4,667	8.4 (2000)	106/1.6
Grenada	106	Insignificant	307.2	31	Insignificant	4,167	18.6	216/2.1

continued overleaf


Annex 1.2: Socio-economic Indicators Related to the Forestry Sector, 2006 (continued)

Country	Population (000)	Population growth, 2005-10 (%/year)	Population density (people/ sq km)	Urban population (%)	Urban population growth, 2000-05 (%/year)	GDP (US\$/ head)	Internet usage (users/ 100 people)	CO ₂ emissions (000 mt and mt/head)
Jamaica	2,714	0.5	246.9	53	1.0	3,823	46.5	10,592/4.0
St Kitts & Nevis	50	1.1	193.2	32	0.7	9,776	24.3	125/2.6
St Lucia	165	1.1	306.0	28	0.5	5,723	34.5	367/2.3
St Vincent & the Grenadines	120	0.5	310.3	46	1.2	3,749	8.4	198/1.7
Trinidad & Tobago	1,333	0.5	259.9	24	1.1	13,661	3.0	117/1.2
Central & North America								
Belize	288	2.1	12.5	48	2.4	4,320	12.4	792/2.9
Canada	32,876	0.9	3.3	80	1.2	39,004	67.9	639,403/20.0
Guyana	738	-0.2	3.4	28	-0.1	1,219	21.3	1,445/29.6
South Asia								
Bangladesh	158,665	1.7	1,101.9	25	3.5	437	0.3	37,165/0.2
India	1,169,016	1.5	355.6	29	2.3	784	5.4	1,342,960/1.2
Maldives	306	1.8	1,025.4	30	4.0	3,020	6.6	726/2.5
Pakistan	163,902	1.8	205.9	35	3.0	913	7.6	125,669/0.8
Sri Lanka	19,299	0.5	294.2	15	0.2	1,425	2.1	11,534/0.6
South-east Asia & Pacific								
Australia	20,743	1.0	2.7	88	1.3	37,924	75.1	326,757/16.3
Brunei Darussalam	390	2.1	67.7	74	2.9	30,058	43.4	8,810/24.1
Fiji	839	0.6	45.9	51	1.9	3,724	9.4	1,071/1.3
Kiribati	95	2.1	131.0	47	4.0	801	2.2	29/0.3
Malaysia	26,572	1.7	80.6	67	3.7	5,704	43.8	177,584/7.0
Nauru	10	0.3	483.3	100	2.2	5,474	n.a.	143/14.2
New Zealand	4,179	0.9	15.4	86	1.2	25,603	78.8	31,570/7.8
Papua New Guinea	6,331	2.0	13.7	13	2.4	989	1.8	2,449/0.4
Samoa	187	0.9	66.1	22	1.3	2,348	4.5	150/0.8
Singapore	4,436	1.2	6,343.0	100	1.5	30,159	39.2	52,252/12.2
Solomon Islands	496	2.3	17.2	17	4.2	860	1.6	176/0.4
Tonga	100	0.5	134.3	24	1.1	2,328	3.0	117/1.2
Tuvalu	11	0.5	405.0	48	1.4	2,441	16.2	n.a.
Vanuatu	226	2.4	18.6	23	3.5	1,635	3.5	88/0.4
Europe								
Cyprus	855	1.1	92.4	69	1.4	23,774	42.2	6,750/8.2
Malta	407	0.4	1,286.6	95	0.9	14,612	31.7	2,453/22.3
United Kingdom	60,769	0.4	250.2	90	0.4	39,207	56.0	587,261/9.8

Source: United Nations (2007), *World Statistics Pocketbook 2007*, UN Department of Economic & Social Affairs.



Annex 1.3: Agricultural Land Use, 2000

Country	Area (000 ha)			Country	Area (000 ha)		
	Arable	Permanent crops	Pasture		Arable	Permanent crops	Pasture
Africa							
Botswana	377	3	25,600	Guyana	480	30	1,230
Cameroon	5,960	1,200	2,000	Total Commonwealth			
Gambia	285	5	459	Central & North America	46,354	6,433	16,715
Ghana	3,950	2,150	8,350	Total Commonwealth			
Kenya	4,500	560	21,300	Americas	46,657	6,633	16,971
Lesotho	330	4	2,000	South Asia			
Malawi	2,100	140	1,850	Bangladesh	8,084	400	600
Mauritius	100	6	7	India	160,555	9,200	11,040
Mozambique	3,900	235	44,000	Maldives	0	0	0
Namibia	816	4	38,000	Pakistan	21,302	658	5,000
Nigeria	28,200	2,650	39,200	Sri Lanka	895	1,015	440
Seychelles	1	6	0	Total Commonwealth South Asia	190,836	11,273	17,080
Sierra Leone	490	60	2,200	South-east Asia & Pacific			
South Africa	14,753	959	83,928	Australia	50,304	296	404,900
Swaziland	178	13	1,200	Brunei Darussalam	9	4	6
Uganda	5,060	2,100	5,112	Fiji	200	85	175
Tanzania	4,000	1,000	43,000	Kiribati	0	0	0
Zambia	5,260	27	30,000	Malaysia	1,820	5,785	285
Total Commonwealth Africa	80,260	11,122	348,206	Nauru	0	0	0
Americas				New Zealand	1,500	1,841	13,863
Antigua & Barbuda	8	2	4	Papua New Guinea	205	650	175
Bahamas	7	4	2	Samoa	59	68	2
Barbados	16	1	2	Singapore	1	1	0
Dominica	5	14	2	Solomon Islands	18	56	40
Jamaica	174	110	229	Tonga	15	11	4
St Kitts & Nevis	7	1	2	Tuvalu	0	0	0
St Lucia	4	14	2	Vanuatu	20	85	42
St Vincent & the Grenadines	7	7	2	Total Commonwealth			
Trinidad & Tobago	75	47	11	South-east Asia & Pacific	54,151	8,882	419,492
Total Commonwealth Caribbean	303	200	256	Europe			
Belize	64	35	50	Cyprus	98	42	4
Canada	45,810	6,368	15,435	Malta	8	1	0
				United Kingdom	5,876	52	11,036
				Total Commonwealth Europe	5,982	95	11,040

Source: The State of Food and Agriculture 2007, FAO, Rome.

Forest Management and Administration in Zambia

I INTRODUCTION

Organised forestry in Northern Rhodesia (as Zambia was called before independence) started in 1931. From a very small beginning as a unit in the Department of Agriculture, it was slowly built up until a full Forest Department was established in 1947. The foundations of the Department were carefully laid in those early days, and present day policies and practices, with a few changes to reflect the current situation, are still firmly based upon them.

The mission statement of the Forestry Department is to ensure sustainable flow of wood and non-wood forest products and services while at the same time ensuring protection and maintenance of biodiversity for the benefit of present and future generations through the active participation of all stakeholders.

1.1 Provincial and District Organisation

Zambia is divided into nine provinces. In terms of Forestry administration, each province is headed by a Principal Extension Officer (formerly Provincial Forest Officer). He/she is responsible for all forestry activities in that province. Each Province is divided into districts and each district headed by a District Forestry Officer, with a staff of Extension Assistants.

1.2 Specialist Branches

There are two specialised research units in the department namely, Silviculture Research Unit and Forest Products Research Unit. Both these units have their headquarters in the Copperbelt Province District of Kitwe.

1.2.1 Silviculture Research

The work of this Unit is to research optimum methods of tree propagation and management for both indigenous and exotic tree species. This includes the studies of seed production, nursery techniques, growth rates, soil characteristics, land preparation and different tending methods. The study of plant diseases and insect pests, and methods of controlling these pathogens and pests is also an important part of the Unit's research.

1.2.2 Forest Products Research

This Unit is concerned with identifying, recording and disseminating information on best practice in timber testing, processing, seasoning and preservation. Work includes testing the strength and natural durability of timbers and much work

was done refining techniques to make timber resistant to termite and fungal attacks.

1.2.3 Beekeeping Division

Its function is to promote beekeeping in the rural areas of Zambia by training beekeepers and by assisting with hive construction, top bar and frame hives including marketing linkages for beeswax and honey.

1.2.4 Forest Management Division

Its work is concerned with the reservation of new forest areas and preparation of forest management plans. The Division is also responsible for the implementation of initiatives like REDD and integrated land use assessment programmes.

2 FOREST RESOURCES IN ZAMBIA

Zambia has a surface land area of about 752,614 km² and forests cover about 49.9 million ha (66% of land cover). The forest vegetation type is mainly *Miombo* (Semi-evergreen forests), *Baikiaea*, *Munga*, *Mopane*, *Kalahari* woodlands (Deciduous Forests), *Ripian*, *Swap*, *Parinari*, *Itigi*, *Lake Basin Chipya* (Evergreen forests), *Termitary* associated bushes (Shrub thickets), grasslands and wooded grasslands. Plantations cover about 61,000 ha of which 7,000 ha is managed by the Forestry Department and 50,000 ha under Zambia Forestry and Forests Industries Corporation (ZAFFICO).

The growing stock is estimated to be 2.9 billion m³ that provides about 70% of the nation's energy needs. About 9.6% of the forests in Zambia are gazetted as protected forest areas or local forest reserves for the supply of timber and non-timber forest products, and the protection of water catchments, national monuments and biological diversity. Total biomass is estimated at about 6 billion tonnes as national biomass (below and above) which translates into about an estimated 2.8 billion tonnes of carbon stored in forests. In addition, there are 15.6 million ha of forests in game management areas and 6.4 million ha in National Parks.

2.1 Forest Utilisation Trend

Forest products make a significant contribution to rural livelihoods in Zambia. There is a high level of domestic dependency on forest products for day-to-day subsistence, including fuel, shelter, food, pasture and fodder, medicines and household utility items. Forests provide goods, employment and business opportunities (e.g. pit-sawing and trading in wild fruits).

High population growth and increasing population density not only exerts pressure on socio-economic services but also on land, leading to deforestation, biodiversity loss, land degradation and scarcity of agricultural land. Demand for land (including settlements and agricultural expansion), demand for timber, charcoal, fuelwood production, forest fires and infrastructure development are the main causes of deforestation. Each of these problems is related to, and even exacerbates, the others. Currently deforestation is estimated at between 250,000 to 300,000 ha per annum.

3 CURRENT GOVERNMENT INITIATIVES IN THE FORESTRY SECTOR

The Government prepared a 20 year forestry action plan (1997 – 2017) called the Zambia Forestry Action Plan (ZFAP), which covers the period 1998 to 2018. The Plan recognised that the vast forestry resources were under considerable strain and proposed policy and programme actions to ensure sustainable protection, management, production and utilisation of the country's forest resources.

3.1 Participatory Forest Management

Joint Forest Management (JFM) is aimed at promoting collaborative management of forests between government and local communities and the private sector. The initiative provides an opportunity for increased user rights and benefit sharing mechanisms that would help in developing stewardship principles in stakeholders.

3.2 UN-REDD programme

The UN-REDD is a collaborative programme supported by three United Nations Agencies namely UNDP, FAO and UNEP aimed at preparing Zambia for the post 2012 Kyoto Protocol climate change regime. It is expected that a National Strategy to reduce emissions from deforestation and forest degradation will be developed.

3.3 Integrated Landuse Assessment (ILUA) Project

The programme aims at strengthening the capacity in planning and implementation of Sustainable Forest Management and REDD through better information, capacity

building dissemination of information, and improved multi-sectoral dialogue to ensure informed decision making processes.

3.4 National Forestry Programme Facility (NFPF)

The National Forest Programmes Facility (NFPF) provides an appropriate platform for multi-stakeholder dialogue and agreed action towards sustainable forest management through participation of non-state actors in various studies.

4 AREAS REQUIRING COLLABORATION AND SUPPORT:

- Update information on forest resources, socio-economics, and land-use for planning and sustainable management of forest resources;
- Development of criteria and indicators for sustainable forest management in Zambia;
- Developing a tracking system for forest produce to ensure appropriate control and management of forests;
- Developing appropriate research strategies focusing on applied research aimed at improving silvicultural methods of managing indigenous forests and forest products research;
- Need for Capacity development in new and emerging areas of forest management like climate change; and
- Developing a forest information management system that responds to current challenges.

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Annex 2: The Forest Resource

Annex 2.1: Extent of Forest and Other Wooded Land (OWL), 2010

Country	Forest			OWL 000 ha	Country	Forest			OWL 000 ha
	000 ha	% land area*	ha forest/ head*			000 ha	% land area*	ha forest/ head*	
Africa					Guyana				
Botswana	11,351	20	6.1	34,791	15,205	77	20.6	3,580	
Cameroon	19,916	42	1.1	12,715	Total Central & North America				
Gambia	480	48	0.3	103	326,732	35	9.7	95,644	
Ghana	4,940	22	0.2	0	Total Americas				
Kenya	3,467	6	0.1	28,650	327,975	35	8.4		
Lesotho	44	1	<0.1	97	South Asia				
Malawi	3,237	34	0.2	0	Bangladesh	1,442	11	<0.1	289
Mauritius	35	17	<0.1	12	India ^a	68,434	23	0.1	3,267
Mozambique	39,022	50	1.9	14,566	Maldives	1	3	<0.1	0
Namibia	7,290	9	3.6	8,290	Pakistan	1,687	2	<0.1	1,455
Nigeria	9,041	10	0.1	4,088	Sri Lanka	1,860	29	0.1	0
Rwanda	435	18	<0.1	61	Total South Asia				
Seychelles	41	88	0.5	0	73,424	19	<0.1	5,011	
Sierra Leone	2,726	38	0.5	189	South-east Asia & Pacific				
South Africa	9,241	8	0.2	24,558	Australia	149,300	19	7.3	135,367
Swaziland	563	33	0.5	427	Brunei Darussalam	380	72	1.0	50
Uganda	2,988	15	0.1	3,383	Fiji	1,014	56	1.2	78
Tanzania	33,428	38	0.8	11,619	Kiribati	12	15	0.1	0
Zambia	49,468	67	4.2	6,075	Malaysia	20,456	62	0.8	0
Total Africa	197,713	26	0.5	149,624	Nauru	0	0	0	0
Americas					New Zealand	8,269	31	2.0	2,557
Caribbean					Papua New Guinea	28,726	63	4.6	4,474
Antigua & Barbuda	10	22	0.1	16	Samoa	171	60	0.9	22
Bahamas	515	51	1.6	36	Singapore	2	3	<0.1	0
Barbados	8	19	<0.1	1	Solomon Islands	2,213	79	4.6	129
Dominica	45	60	0.7	0	Tonga	9	13	0.1	0
Grenada	17	50	0.2	1	Tuvalu	1	33	0.1	0
Jamaica	337	31	0.1	188	Vanuatu	440	36	2.0	476
St Kitts & Nevis	11	42	0.2	2	Total South-east Asia & Pacific				
St Lucia	47	77	0.3	0	210,993	24	3.3	143,153	
St Vincent & the Grenadines	27	68	0.2	0	Europe				
Trinidad & Tobago	226	44	0.2	84	Cyprus	173	19	0.2	214
Total Caribbean	1,243	43	0.2	328	Malta	0	1	0	0
Central & North America					United Kingdom ^b	2,885	12	<0.1	20
Belize	1,393	61	5.0	113	Total Commonwealth Europe				
Canada	310,134	34	9.5	91,951	3,058	12	<0.1	234	
Total					Commonwealth				
					813,163	27	0.4	393,994	
					Total World				
					4,033,060	31	0.6	1,144,687	

Source: FAO, FRA2010.

Notes: * from Annex 1.1; a Includes Andaman Islands and Nicobar Islands; b Includes Channel Islands and Isle of Man.

The Overseas Territories of Australia, New Zealand and the UK are excluded from the above. They include:

Australia – Christmas Island, Cocos Islands, Macquarie Island, Norfolk Island;

New Zealand – Antipodes Islands, Bounty Islands, Chatham Islands, Cook Islands (16,000 ha forest), Niue (19,000 ha forest), Tokelau;

UK – Anguilla, British Antarctic Territory, Bermuda, British Indian Ocean Territory (3,000 ha of forest), British Virgin Islands, Cayman Islands, Falkland Islands, Gibraltar, Montserrat, St Helena, Ascension Island and Tristan da Cunha (2,000 ha of forest), Turk & Caicos Islands, Pitcairn Island (4,000 ha forest), South Georgia and South Sandwich Islands, Sovereign Base Areas on Cyprus.


Annex 2.1 (continued): Commonwealth Low Forest Cover Countries

Africa – Kenya, Lesotho, Namibia, South Africa
 South Asia – Maldives, Pakistan
 South-east Asia & Pacific – Nauru, Singapore
 Europe – Malta

Annex 2.1 (continued): Commonwealth Members of the Alliance of Small Island States

Africa – Mauritius, Seychelles
 Americas – Antigua & Barbuda, Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Jamaica, St Kitts & Nevis, St Lucia, St Vincent & Grenadine, Trinidad & Tobago
 South-east Asia & Pacific – Fiji, Kiribati, Maldives, Nauru, Papua New Guinea, Samoa, Singapore, Solomon Islands, Tonga, Tuvalu, Vanuatu
 Europe – Cyprus, Malta

Annex 2.2: Area and Change in Extent of Primary^a forest, 1990-2010

Country	Area of primary forest (000 ha)				% forest area 2010	Rate of annual change (%/year)		
	1990	2000	2005	2010		90-00	00-05	05-10
Africa								
Gambia	1	1	1	1	<1	0	0	0
Ghana	395	395	395	395	40	0	0	0
Kenya	694	674	664	654	19	-0.29	-0.30	-0.3
Malawi	1,727	1,330	1,132	934	29	-2.58	-3.17	-3.77
Nigeria	1,556	736	326	0	0	-7.21	-15.03	-100
Rwanda	7	7	7	7	2	0	0	0
Seychelles	2	2	2	2	5	0	0	0
Sierra Leone	224	157	133	113	4	-3.49	-3.26	-3.21
South Africa	947	947	947	947	10	0	0	0
Total Africa			3,607	3,053				
Americas								
Belize	599	599	599	599	43	0	0	0
Canada	165,448	165,448	165,448	165,448	53	0	0	0
Dominica	28	28	27	27	60	0	0.31	0
Grenada	2	2	2	2	12	0	0	0
Guyana	–	6,790	6,790	6,790	45	–	0	0
Trinidad & Tobago	62	62	62	62	27	0	0	0
Total Americas			172,928	172,928				
South Asia								
Bangladesh	436	436	436	436	30	0	0	0
India	15,701	15,701	15,701	15,701	23	0	0	0
Sri Lanka	257	197	167	167	9	-2.62	-3.25	0
Total South Asia			16,304	16,304				

continued overleaf


Annex 2.2: Area and Change in Extent of Primary^a forest, 1990-2010 (continued)

Country	Area of primary forest (000 ha)				% forest area 2010	Rate of annual change (%/year)		
South-east Asia & Pacific								
Australia	–	–	5,233	5,039	3	–	–	-0.75
Brunei Darussalam	313	288	275	263	69	-0.83	-0.92	-0.89
Fiji	490	445	448	449	44	-0.94	0.14	0.04
Malaysia	3,820	3,820	3,820	3,820	19	0	0	0
New Zealand	–	–	2,144	2,144	26	–	0	0
Papua New Guinea	31,329	29,534	28,344	26,210	91	-0.59	-0.83	-1.55
Singapore	2	2	2	2	100	0	0	0
Total South-east Asia & Pacific			40,266	37,927				
Europe								
Cyprus	13	13	13	13	8	0	0	0

Source: FAO, 2010.

Notes: a Forest of native species, in which there are no clearly visible indications of human activity, and ecological processes are not significantly disturbed; Countries with no primary forest, or with no records, have been omitted.

BELOW

The extent of primary forest in Canada has not changed over the last two decades.





Annex 2.3: National Importance of Forest Ecological Zones

<i>National proportion</i>			
<i>Major forest types</i>	<i>Highest</i>	<i>Second</i>	<i>Third</i>
Tropical rain forest	Cameroon (81%); Ghana (47%); Dominica (79%); Grenada (71%); Jamaica (84%); St Kitts & Nevis (54%); St Lucia (61%); St Vincent & the Grenadines (56%); Trinidad & Tobago (100%); Guyana (74%); Bangladesh (63%); Maldives (100%); Brunei Darussalam (100%); Fiji (100%); Kiribati (100%); Malaysia (94%); Nauru (100%); Papua New Guinea (80%); Samoa (100%); Singapore (100%); Solomon Islands (100%); Tonga (100%); Vanuatu (100%)	Sierra Leone (40%); Bahamas (29%); Belize (42%); India (13%)	Mozambique (1%); Nigeria (22%); Antigua & Barbuda (22%)
Tropical moist deciduous	Malawi (48%); Mauritius (100%); Seychelles (100%); Sierra Leone (60%); Uganda (78%); Antigua & Barbuda (43%); Bahamas (54%); Belize (58%)	Cameroon (16%); Gambia (24%); Ghana (32%); Kenya (18%); Mozambique (18%); Nigeria (36%); Tanzania (18%); Zambia (49%); Grenada (25%); Jamaica (16%); St Kitts & Nevis (45%); St Lucia (37%); St Vincent & the Grenadines (43%); Guyana (23%); Bangladesh (37%); Sri Lanka (20%)	South Africa (1%); Uganda (5%); India (11%); Sri Lanka (18%)
Tropical dry	Botswana (73%); Gambia (76%); Mozambique (81%); Namibia (53%); Nigeria (38%); South Africa (61%); Swaziland (86%); Tanzania (65%); Zambia (51%); Barbados (100%); India (56%); Sri Lanka (62%); Australia (39%)	Malawi (37%); Uganda (16%); Antigua & Barbuda (34%); Dominica (21%)	Cameroon (2%); Ghana (21%); Kenya (1%); Grenada (4%); St Kitts & Nevis (2%); St Lucia (2%); St Vincent & the Grenadines (1%); Guyana (4%); Papua New Guinea (5%)
Tropical montane	Rwanda (100%); Kenya (53%)	Namibia (3%); South Africa (2%); Malaysia (6%); Papua New Guinea (11%)	Malawi (15%); Tanzania (3%); Bahamas (17%)
Sub-tropical humid	New Zealand (51%)		Australia (5%)
Sub-tropical dry		Australia (6%); Cyprus (100%); Malta (100%)	
Sub-tropical montane	Lesotho (100%); Pakistan (31%)	Swaziland (14%)	
Temperate oceanic	UK (85%)	New Zealand (34%)	
Temperate continental			Canada (13%)
Temperate montane			New Zealand (16%)
Boreal coniferous	Canada (40%)	UK (10%)	
Boreal tundra		Canada (24%)	
Boreal montane			UK (4%)



Annex 2.4: Change in Extent of Forest, 1990-2010

Country	1990-2000		2000-2005		2005-2010	
	000 ha/yr	%	000 ha/yr	%	000 ha/yr	%
Africa						
Botswana	-118	-0.90	-118	-0.96	-118	-1.01
Cameroon	-220	-0.94	-220	-1.02	-220	-1.07
Gambia	2	0.42	2	0.43	2	0.38
Ghana	-135	-1.99	-115	-1.97	-115	-2.19
Kenya	-13	-0.35	-12	-0.34	-11	-0.31
Lesotho	n.s.	0.49	n.s.	0.47	n.s.	0.46
Malawi	-33	-0.88	-33	-0.94	-33	-0.99
Mauritius	n.s.	-0.03	-1	-2.05	n.s.	-0.06
Mozambique	-219	-0.52	-222	-0.54	-211	-0.53
Namibia	-73	-0.87	-74	-0.94	-74	-0.99
Nigeria	-410	-2.68	-410	-3.33	-410	-4.00
Rwanda	3	0.79	8	2.28	10	2.47
Seychelles	0	0.00	0	0.00	0	0.00
Sierra Leone	-20	-0.65	-20	-0.68	-20	-0.70
South Africa	0	0.00	0	0.00	0	0.00
Swaziland	5	0.93	5	0.87	4	0.80
Uganda	-88	-2.03	-88	-2.39	-88	-2.72
Tanzania	-403	-1.02	-403	-1.10	-403	-1.16
Zambia	-1.67	-0.32	-167	-0.33	-167	-0.33
Total Africa	-1,889	-0.83	-1,868	-0.88	-1,854	-0.91
Americas						
Antigua & Barbuda	n.s.	-0.30	n.s.	-0.40	0	0.00
Bahamas	0	0.00	0	0.00	0	0.00
Barbados	0	0.00	0	0.00	0	0.00
Dominica	n.s.	-0.55	n.s.	-0.57	n.s.	-0.59
Grenada	0	0.00	0	0.00	0	0.00
Jamaica	n.s.	-0.11	n.s.	-0.10	n.s.	-0.12
St Kitts & Nevis	0	0.00	0	0.00	0	0.00
St Lucia	n.s.	0.64	n.s.	0.13	0	0.00
St Vincent & the Grenadines	n.s.	0.27	n.s.	0.23	n.s.	0.30
Trinidad & Tobago	-1	-0.30	-1	-0.31	-1	-0.32
Total Caribbean	-1	-0.08	-1	-0.10	-1	-0.11
Central & North America						
Belize	-10	-0.63	-10	-0.65	-10	-0.68

Source: FAO, FRA2010.
n.s. = not significant.

Country	1990-2000		2000-2005		2005-2010	
	000 ha/yr	%	000 ha/yr	%	000 ha/yr	%
Canada	0	0.00	0	0.00	0	0.00
Guyana	0	0.00	0	0.00	0	0.00
Total Central & North America						
	-10	n.s.	-10	n.s.	-10	n.s.
South Asia						
Bangladesh	-3	-0.18	-3	-0.18	-3	-0.18
India	145	0.22	464	0.70	145	0.21
Maldives	0	0.00	0	0.00	0	0.00
Pakistan	-41	-1.76	-43	-2.11	-43	-2.37
Sri Lanka	-27	-1.20	-30	-1.47	-15	-0.77
Total South Asia	75	0.11	389	0.54	85	0.12
South-east Asia & Pacific						
Australia	42	0.03	-200	-0.13	-924	-0.61
Brunei Darussalam	-2	-0.39	-2	-0.41	-2	-0.47
Fiji	3	0.29	3	0.34	3	0.34
Kiribati	0	0.00	0	0.00	0	0.00
Malaysia	-79	-0.36	-140	-0.66	-87	-0.42
Nauru	0	0.00	0	0.00	0	0.00
New Zealand	55	0.69	9	0.11	-8	-0.10
Papua New Guinea	-139	-0.45	-139	-0.47	-142	-0.49
Samoa	4	2.78	0	0.00	0	0.00
Singapore	0	0.00	0	0.00	0	0.00
Solomon Islands	-6	-0.24	-5	-0.24	-6	-0.25
Tonga	0	0.00	0	0.00	0	0.00
Tuvalu	0	0.00	0	0.00	0	0.00
Vanuatu	0	0.00	0	0.00	0	0.00
Total South-east Asia & Pacific	-121	-0.06	-474	-0.22	-1,165	-0.54
Europe						
Cyprus	1	0.63	n.s.	0.14	n.s.	0.04
Malta	0	0.00	0	0.00	0	0.00
United Kingdom	18	0.68	10	0.37	7	0.25
Total Europe	19	0.67	11	0.36	7	0.24
Total Commonwealth-1,927						
	-0.23	-1,953	-0.23	-2,939	-0.36	



Annex 2.5: Planted Forests, 1990-2010

Country	Area (000 ha)				% total 2010 forest area	% change/year		
	1990	2000	2005	2010				
Africa								
Botswana	0	0	0	0	-	0	0	0
Cameroon	-	-	84	-	-	-	-	-
Gambia	1	1	1	1	<1	0	0	0
Ghana	50	60	160	260	5	1.8	21.7	10.2
Kenya	238	212	202	197	6	-1.2	-1.0	-0.5
Lesotho	6	8	9	10	23	3.2	2.6	2.3
Malawi	132	197	285	365	11	4.1	7.7	5.1
Mauritius	15	15	15	15	43	0	0	0
Mozambique	38	38	24	62	<1	0	-8.8	20.9
Namibia	0	0	0	0	-	0	0	0
Nigeria	251	316	349	382	4	2.3	2.0	1.8
Rwanda	248	282	323	373	86	1.3	2.8	2.9
Seychelles	5	5	5	5	12	0	0	0
Sierra Leone	7	8	11	15	1	1.7	7.2	5.3
South Africa	1,626	1,724	1,750	1,763	19	0.6	0.3	0.2
Swaziland	160	150	145	140	25	-0.6	-0.7	-0.7
Uganda	34	32	31	51	2	-0.6	-0.6	10.5
Tanzania	150	200	230	240	1	2.9	2.8	0.9
Zambia	60	60	60	62	<1	0	0	0.7
Total Africa	3,021	3,308	3,684	3,941	2			
Americas								
Antigua & Barbuda	0	0	0	0	0	0	0	0
Bahamas	0	0	0	0	0	0	0	0
Barbados	0	0	0	0	0	0	0	0
Dominica	0	0	0	0	0	0	0	0
Grenada	0	0	0	0	0	0	0	0
Jamaica	9	8	8	7	2	-0.8	0	-2.3
St Kitts & Nevis	0	0	0	0	0	0	0	0
St Lucia	1	1	1	1	2	0	0	0
St Vincent & the Grenadines	0	0	0	0	0	0	0	0
Trinidad & Tobago	15	16	17	18	8	0.7	1.2	1.2
Total Caribbean	25	25	26	26	2			
Belize	2	2	2	2	<1	0	0	0

continued overleaf



Annex 2.5: Planted Forests, 1990-2010 (continued)

Country	Area (000 ha)				% total 2010 forest area	% change/year		
	1990	2000	2005	2010		1990-2000	2000-2005	2005-2010
Canada	1,357	5,820	8,048	8,963	3	15.7	6.7	2.2
Guyana	0	0	0	0	0	0	0	0
Total Central & North America	1,359	5,822	8,050	8,965	3			
Total Americas	1,384	5,847	8,076	8,991	3			
South Asia								
Bangladesh	239	271	278	237	16	1.3	0.5	-3.1
India	5,716	7,167	9,486	10,211	15	2.3	5.8	1.5
Maldives	0	0	0	0	0	0	0	0
Pakistan	234	296	318	340	21	2.4	1.4	1.4
Sri Lanka	242	221	195	185	10	-0.9	-2.5	-1.1
Total South Asia	6,431	7,955	10,277	10,973	15			
South-east Asia & Pacific								
Australia	1,023	1,176	1,628	1,903	1	1.4	6.7	3.2
Brunei Darussalam	1	1	2	3	1	0	8.4	6.5
Fiji	92	130	153	177	17	3.5	3.3	2.8
Kiribati	0	0	0	0	0	0	0	0
Malaysia	1,956	1,659	1,573	1,807	9	-1.6	-1.1	2.8
Nauru	0	0	0	0	0	0	0	0
New Zealand	1,261	1,809	1,854	1,812	22	3.7	0.5	-0.5
Papua New Guinea	63	82	92	86	<1	2.8	2.3	-1.4
Samoa	0	32	32	32	2	0	0	0
Singapore	0	0	0	0	0	0	0	0
Solomon Islands	44	28	27	27	1	-4.6	-0.5	0
Tonga	1	1	1	1	11	0	0	0
Tuvalu	0	0	0	0	0	0	0	0
Vanuatu	0	0	0	0	0	0	0	0
Total South-east Asia & Pacific	4,441	4,918	5,362	5,848	3			
Europe								
Cyprus	24	28	29	31	18	1.3	1.3	0.7
Malta	0	0	0	0	0	0	0	0
United Kingdom	1,965	2,145	2,189	2,219	77	0.9	0.4	0.3
Total Europe	1,989	2,173	2,218	2,250	74			
Total Commonwealth	17,266	24,201	29,617	32,003	4			
Total World	-	-	-	264,001				



Annex 2.6: Forest Ownership, 2005

	Forest %			OWL %		
	Public	Private	Other	Public	Private	Other
Africa						
Botswana	71.0	5.0	24.0	71.0	5.0	24.0
Cameroon	100	–	–	100	–	–
Gambia	100	ns	0	100	0	0
Ghana	100	0	0	100	–	–
Kenya	97.8	2.2	0	90.0	10.0	0
Lesotho	100	0	0	100	0	0
Malawi	–	–	–	–	–	–
Mauritius	52.6	47.4	0	11.8	88.2	0
Mozambique	100	–	–	100	–	–
Namibia	–	–	–	–	–	–
Nigeria	100	0	0	100	0	0
Seychelles	77.5	22.5	–	–	–	–
Sierra Leone	–	–	–	–	–	–
South Africa	66.0	34.0	–	84.3	15.7	–
Swaziland	–	–	–	–	–	–
Uganda	29.8	70.2	–	20.8	79.2	–
Tanzania	99.8	0.2	–	100	–	–
Zambia	100	–	–	–	–	100
Americas						
Antigua & Barbuda	–	–	–	–	–	–
Bahamas	80.0	20.0	–	80.1	19.9	–
Barbados	4.1	95.9	–	–	–	–
Bermuda	–	–	–	–	–	–
Dominica	–	–	–	–	–	–
Grenada	69.0	31.0	–	69.0	31.0	–
Jamaica	27.6	65.1	7.3	5.1	91.1	3.5
St Kitts & Nevis	–	–	–	–	–	–
St Lucia	47.1	52.9	–	4.0	96.0	–
St Vincent & the Grenadines	–	–	–	–	–	–

Source: FAO, 2006.

Notes: – information not available or not relevant; countries with no information available omitted.

	Forest %			OWL %		
	Public	Private	Other	Public	Private	Other
Trinidad & Tobago	75.4	24.6	–	100	–	–
Belize	–	–	–	–	–	–
Canada	92.1	7.9	ns	97.9	2.1	0
Guyana	66.3	–	33.7	66.3	–	33.7
South Asia						
Bangladesh	98.2	1.8	0	100	–	–
India	98.4	1.6	0	98.4	1.6	0
Maldives	–	–	–	–	–	–
Pakistan	66.0	34.0	–	66.0	34.0	–
Sri Lanka	92.5	7.5	–	–	–	–
South-east Asia & Pacific						
Australia	72.0	27.1	0.9	–	–	–
Brunei Darussalam	100	0	–	94.8	5.2	–
Fiji	6.8	93.2	0	–	–	–
Kiribati	0	100	0	–	–	–
Malaysia	93.4	6.6	0	–	–	–
Nauru	–	–	–	–	–	–
New Zealand	63.4	36.6	0	–	–	–
Papua New Guinea	3.1	0	96.9	3.1	0	96.9
Samoa	98.2	1.8	–	90.9	9.1	–
Singapore	100	0	0	–	–	–
Solomon Islands	–	–	–	–	–	–
Tonga	100	–	–	–	–	–
Tuvalu	–	–	–	–	–	–
Vanuatu	–	–	–	–	–	–
Europe						
Cyprus	61.2	38.8	0	23.7	76.3	0
Malta	100	0	0	–	–	–
United Kingdom	36.2	63.8	0	0	100	0

THE FORESTRY AND WILDLIFE SECTOR — AT THE FOREFRONT OF BIODIVERSITY CONSERVATION IN CAMEROON

In two decades the forestry and wildlife sector has really taken off in Cameroon. It became the third economic sector after agriculture and oil. This is the result of a series of reforms that have led to considerable opening up of the sector.

FORESTRY AND WILDLIFE POTENTIAL IN CAMEROON

THE CAMEROONIAN FOREST

- 22.5 million ha of forest
- 17.5 million ha of exploitable forest
- 14 million ha of permanent forest
- 14 million ha fixed domain with:
- 8 million ha of production forest (60%)
- 6 million ha of forest and wildlife reserves (40%)

Since 2005, the Government has suspended activities in community forests, sources of several cases of illegal logging. The emergency cleaning up measures taken will consider the resumption of activities in forests that have a simple management plan. There are now 105 forest management units of which 92 are allocated and nine earmarked for conservation.

PROTECTED AREA

The current network of protected areas covers an area of 8,138,800 ha or about 20% of the country. The protected areas are grouped into several categories:

- 17 national parks
- 6 wildlife reserves
- 1 wildlife sanctuary and two others under creation
- 3 zoological gardens
- 46 areas of interest to lease hunting
- 22 areas of interest community-managed hunting.

REFORMS

Immediately after the UNCED in Rio in 1992, Cameroon created the Ministry of Environment and Forestry, which was divided into two separate ministries in 2004 (the Ministry of Forestry and Wildlife and the Ministry of Environment and Nature Protection). The formulation of a new forest policy was effective in 1993. In 1994, the Government adopted a new forestry code and the law to lay down forestry, wildlife and fisheries regulations. In 1996 it adopted an environmental code and a framework law on the management of the environment.

Alongside these initiatives, the Head of State was active on the international level and convened in March 1999, the first Summit of Heads of State of Central Africa on the sustainable management of moist forest ecosystems Africa Central. WWF and its President Emeritus, HRH The Duke of Edinburgh provided active support to this sub-regional forum but with global ramifications. This Summit came out with a landmark statement which serves as a benchmark for other sub-regional initiatives on sustainable forest management the “Yaoundé Declaration”. Its main conclusions expounded in 12 points outline sectoral activities within the signatory States. In less than two



decades, the forestry and wildlife sector has become the third largest contributor to GDP after agriculture and oil.

The involvement of non-state actors in the activities of the sector in Cameroon is a unique case whose echo resounds in the sub-region. Significant innovations mark this break and reflect the opening up of the sector. Thus we can see, the adoption of a procurement mechanism in awarding titles, the introduction of three levels of independent observers for transparent management of the sector, the development of a land use plan (the only one in the sub-region), and the gradual transition to forest certification, the right of pre-emption that defines access of people living close to the resource, the concepts of community or council forest that lay emphasis on access to resources and as well as community-managed hunting grounds. Pygmies are not left out. Since last year, the Ministry of Forestry and Wildlife conceded to the Ministry of Social Affairs under the implementation of the FESP, aspects related to improving the livelihoods of pygmies. The research component of this broad multi-stakeholder programme has been transferred to the Ministries of Higher Education on the one hand and Scientific Research and Innovation on the other. In order to enhance the involvement of local people in the management of resources and revenue from wildlife and forest exploitation, and thus better establish that openness to other industries, the Ministry of Forestry and Wildlife organised in March 2010 the second forum on forest management in Cameroon. The recommendations of this forum will be included in the brainstorming initiated for several years now on the revision to the 1994 Forest Law.

Through these reforms and ownership of the participatory approach, the Cameroonian Government is resolutely committed on the path of governance. These

efforts witnessed a turning point with the formal signing of a Voluntary Partnership Agreement between the Government and the European Union under the FLEGT Process in May 2010.

ECONOMIC DIVIDENDS OF THE SECTOR

From 1992 to 2010, forest revenues increased from \$4 billion to over \$40 billion. Since 2000, 70 municipalities and forest communities have received over 60 billion CFA Francs in Annual Forest Royalties. As concerns wildlife royalties over 250 million CFA Francs have been distributed to over 50 communities each year. 150 council and community forests have been created of which 50 are operating normally with 10 having a simple management plan.

FUTURE GREEN

With the international financial crisis of 2009, the Head of State decided to considerably ease the conditions for exercising the forestry profession thereby stabilising the activities of production units. Instructions have been given to the Government to ensure that Cameroon attains tertiary processing so as to bring added value to the national economy.

In terms of wildlife and protected areas, about 20% of the national territory is reserved for conservation. The fight against poaching has achieved the following results in 2009:

- 322 outstanding disputes against poachers sent to court
- Over 600 pieces of ivory seized representing about 200 elephants killed
- 463 guns seized (war and hunting arms)
- More than 27 tons of bush meat seized and auctioned
- 7,300 rounds of ammunition recovered.

The future will also witness the renewal of timber resources as a vast national reforestation programme is underway. The objective of planting more than two million trees per year was largely exceeded in 2009. With the support that the sector now provides to councils and communities, reforestation will receive a greater impulse in an environment marked by the effective implementation of decentralisation.



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FAR LEFT: Poaching is a challenge to the Cameroonian Government. Elephants killed in Bouba Ndjidda National Park in February 2010; fifteen elephants were killed by poachers from Chad.

ABOVE LEFT: The Minister of Forestry and Wildlife, Prof. Elvis Ngolle, introducing the framework of the national tree planting campaign to the population in the Far North Cameroon; and, BELOW LEFT: The Minister planting a tree as part of the campaign.



Annex 3: Management and Conservation

Annex 3.1: Management of the Production, Tropical* Permanent Forest Estate (000 ha), 2005

Country	Natural					Planted		
	Total area	Concessions/under licence	With management plan	Certified	Sustainably managed	Total area	With management plan	Certified
Africa								
Cameroon	8,840	4,950	1,760	0	500	17	n.d.	0
Ghana	1,150	1,035	1,150	0	270	97	97	0
Nigeria	2,720	1,060	650	0	n.d.	375	175	0
Asia & Pacific								
Fiji	0	n.a.	n.a.	n.a.	n.a.	113	90	0
India	13,500	13,500	9,720	0	4,800	32,600	8,150	0
Malaysia	11,200	6,790	11,200	4,620	4,790	183	183	183
Papua New Guinea	8,700	5,600	4,980	19	1,500	80	n.d.	0
Vanuatu	117	n.d.	0	0	0	2.1	2.1	0
Americas								
Guyana	5,450	3,800	3,730	0	520	12	0	0
Trinidad & Tobago	127	75	75	0	15	15.4	15.4	0

Source: ITTO, 2005.

Notes: * except India, whose tropical and non-tropical PFEs could not be differentiated so the figures cover both types;
n.d. = no data.

Annex 3.2: Management of the Protection, Tropical* Permanent Forest Estate (000 ha), 2005

Country	Total area	Attribution to IUCN Cat I-IV	For soil and water protection	With management plan	Sustainably managed
Africa					
Cameroon	3,900	2,650	n.d.	n.d.	n.d.
Ghana	353	174	n.d.	n.d.	108
Nigeria	1,010	1,010	n.d.	n.d.	n.d.
Asia & Pacific					
Fiji	241	3	18	37	55
India	25,600	3,060	n.d.	n.d.	n.d.
Malaysia	3,210	1,400	3,210	3,210	3,210
Papua New Guinea	1,700	362	n.d.	n.d.	n.d.
Vanuatu	8.37	0	n.d.	n.d.	n.d.
Americas					
Guyana	980	980	n.d.	243	243
Trinidad & Tobago	59.1	29.2	n.d.	12	n.d.

Source: ITTO, 2005.

Notes: * except India, whose tropical and non-tropical PFEs could not be differentiated so the figures cover both types;
n.d. = no data.



Annex 3.3: Commonwealth Member Countries of International Processes on Criteria and Indicators for Sustainable Forest Management

Process*	Commonwealth Member Countries
African Timber Organisation	Cameroon, Ghana, Nigeria, Tanzania
Dry Forest in Asia	Bangladesh, India, Sri Lanka
Dry-zone Africa	Botswana, Gambia, Kenya, Lesotho, Malawi, Mauritius, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Uganda, Zambia
International Tropical Timber Organisation** http://www.itto.or.jp	Cameroon, Fiji, Ghana, Guyana, India, Malaysia, Papua New Guinea, Trinidad & Tobago, Vanuatu
Lepaterique Process of Central America	Belize
Montreal Process http://www.mpci.org/links_e.html	Australia, Canada, New Zealand
Near East	Cyprus, Malta, Pakistan
Pan-European Forest Process http://www.mcpfe.org	United Kingdom
Tarapoto proposal	(No Commonwealth member)

* Details of all Processes are available on:

<http://www.fao.org/forestry/foris/webview/forestry2/index.jsp?siteId=4462&siteTreeId=16587&langId=1&geoid=0>

** Members of the ITTO Process are exclusively the producer countries.

Annex 3.4: Commonwealth Countries with some Forests under Certification Schemes

Scheme	Commonwealth Member Countries
Forest Stewardship Council (FSC)	Namibia, South Africa, Swaziland, Uganda Belize, Canada, India, Malaysia, Pakistan, Sri Lanka New Zealand**, Papua New Guinea, Solomon Islands United Kingdom
Canadian Standards Association (CSC)	Canada
Malaysian Timber Certification Council (MTCC)*	Malaysia

* For a description of the MTCC certification scheme see *CFA Newsletter*, No. 30, September 2005.

** New Zealand is establishing its own National Standard, which will be subject to independent verification (*CFA Newsletter*, No. 30, December 2005).

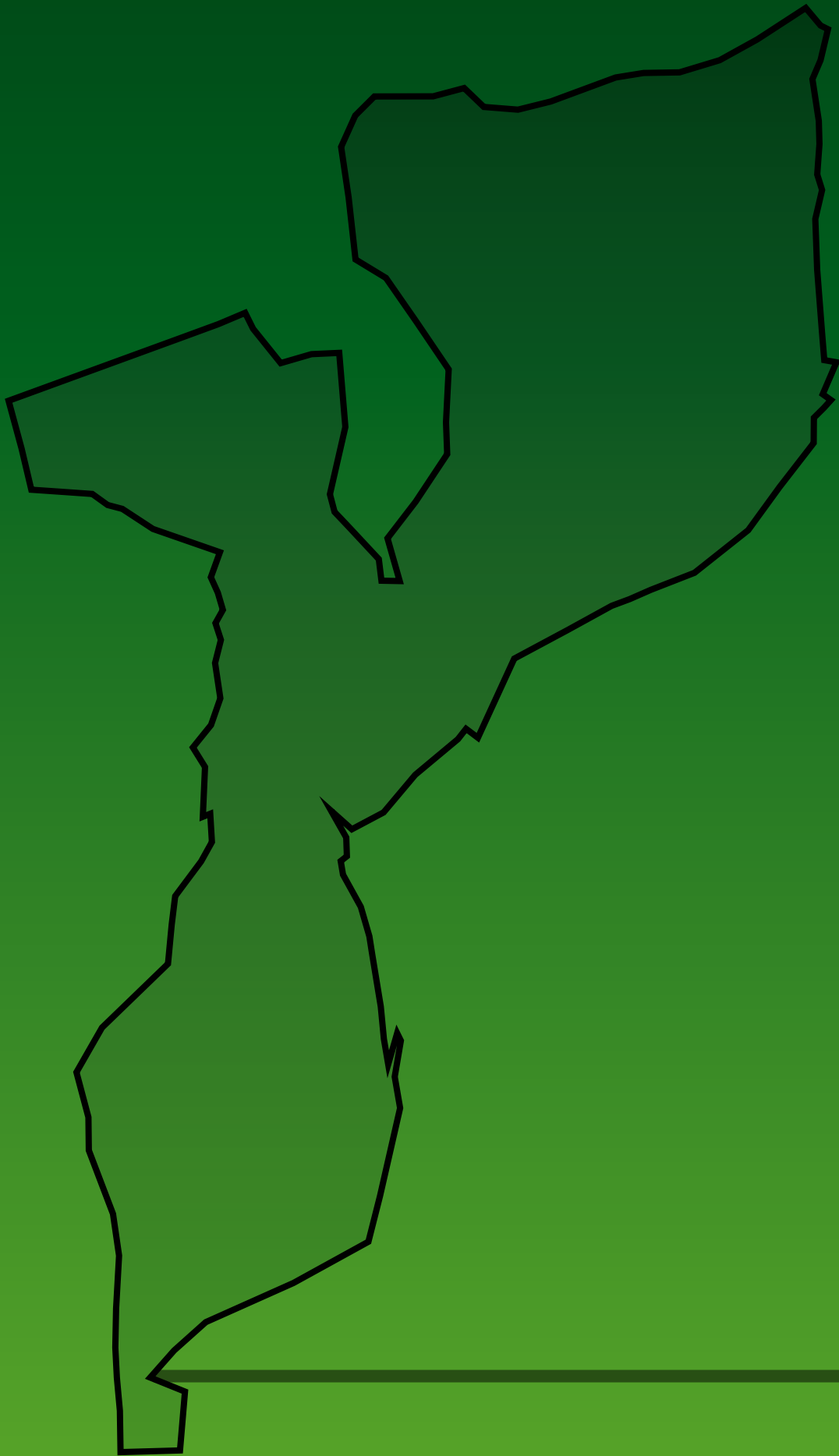
Annex 3.5: IUCN Protected Area Categories

- I. Strict Nature Reserve/Wilderness Area: protected area managed mainly for science of wilderness protection.
- II. National Park: protected area managed mainly for ecosystem protection and recreation.
- III. Natural Monument: protected area managed mainly for conservation of specific natural features.
- IV. Habitat/Species Management Area: protected area managed mainly for conservation through management intervention.
- V. Protected Landscape/Seascape: protected area managed mainly for landscape/seascape protection and recreation.
- VI. Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems.

Categories I-IV are referred to in the ITTO countries quoted in *Tables 6.1 and 6.2*.

Unfortunately there are several anomalies in assessing protected forest areas and it was not possible to distinguish them in other countries from available data¹; for example, many countries consider that all permanent forest estate, including managed forest, has protected area status. The World Database on Protected Areas therefore refers to a number of types of forest-protected areas, such as Classified and Community Forest, Forest Park, Forest Reserve and Forest Station, National Forest and Protection Forest, and even Reforestation Area.

¹ The authoritative source is the IUCN/UNEP World Database on Protected Areas (WDPA) 2006, issued by the WDPA Consortium and available from IUCN.





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Annex 4: Wood Production and Consumption, Employment

Annex 4.1: Production, Trade and Consumption of Industrial Roundwood in Commonwealth Countries 000 m³, 2006 (2004)

Country/Region	Production	Imports	Exports	Consumption*
Africa				
Botswana	105	0	0	105
Cameroon	1,800	0	29	1,771
Gambia	113	0	0	112
Ghana	1,304	3	1	1,305
Kenya	1,813	8	1	1,820
Lesotho	0	0	0	0
Malawi	520	2	0	521
Mauritius	9	20	1	28
Mozambique	1,304	4	133	1,175
Namibia	0	0	0	0
Nigeria	9,418	1	42	9,377
Seychelles	0	0	0	0
Sierra Leone	124	0	1	123
South Africa	18,063	51	191	17,922
Swaziland	330	0	0	330
Uganda	3,175	0	0	3,175
Tanzania	2,314	2	57	2,259
Zambia	1,325	0	1	1,325
Total Commonwealth Africa	41,717	(44,361)	41,348	(43,826)
Americas				
Antigua & Barbuda	0	0	0	0
Bahamas	17	63	0	80
Barbados	6	5	0	11
Bermuda	0	n.a.	n.a.	0
Dominica	0	1	0	1
Grenada	0	0	0	0
Jamaica	278	3	0	281
St Kitts & Nevis	0	1	0	1
St Lucia	0	7	0	7
St Vincent & the Grenadines	0	2	0	2
Trinidad & Tobago	65	5	1	70
Total Commonwealth Caribbean	366	(355)	453	(442)
Belize	62	2	0	63
Canada	185,196	5,787	4,640	186,343
Guyana	574	0	150	424

Source: State of the World's Forests 2007, FAO, Rome.

Notes: * consumption net of production, imports and exports may not agree because of rounding; n.a. = not available.

Country/Region	Production	Imports	Exports	Consumption*
Total Commonwealth Central & North America				
Total Commonwealth Americas	185,832	(198,120)	186,830	(200,048)
South Asia				
Bangladesh	282	329	1	611
India	23,192	4,043	3	27,231
Maldives	0	0	0	0
Pakistan	2,870	259	0	3,129
Sri Lanka	694	1	3	693
Total Commonwealth South Asia	27,038	(22,801)	31,664	(25,255)
South-east Asia & Pacific				
Australia	26,904	2	1,065	25,841
Brunei Darussalam	217	0	0	217
Fiji	472	2	6	468
Kiribati	0	0	0	0
Malaysia	22,000	116	5,459	16,657
Nauru	0	0	0	0
New Zealand	19,254	3	5,571	13,687
Papua New Guinea	2,908	0	2,638	270
Samoa	61	6	1	66
Singapore	0	40	39	1
Solomon Islands	1,130	0	1,011	119
Tonga	2	1	2	1
Tuvalu	0	0	0	0
Vanuatu	28	2	0	30
Total Commonwealth South-east Asia & Pacific	72,976	(71,281)	57,357	(56,659)
Europe				
Cyprus	5	0	0	5
Malta	0	0	0	0
United Kingdom	8,100	415	644	7,871
Total Commonwealth Europe	8,105	(8,049)	7,876	(8,065)
Total Commonwealth	336,034	(344,967)	325,528	(334,295)
Total World	1,635,069	131,336	130,549	1,635,857
	(1,644,318)		(1,646,667)	


Annex 4.2: Woodfuel Consumption in Commonwealth Countries 000 m³, 2006 (2004)

Africa		Total Commonwealth Central & North America	
Botswana	665		3,855 (3,815)
Cameroon	9,566	Total Commonwealth Americas	4,453 (4,423)
Gambia	656		
Ghana	33,040	South Asia	
Kenya	20,749	Bangladesh	27,584
Lesotho	2,061	India	306,332
Malawi	5,189	Maldives	0
Mauritius	7	Pakistan	26,124
Mozambique	16,724	Sri Lanka	5,584
Namibia	n.a.	Total Commonwealth South Asia	365,624 (362,788)
Nigeria	61,628		
Seychelles	0	South-east Asia & Pacific	
Sierra Leone	5,448	Australia	6,969
South Africa	12,000	Brunei Darussalam	12
Swaziland	996	Fiji	37
Uganda	37,343	Kiribati	0
Tanzania	21,913	Malaysia	3,024
Zambia	8,798	Nauru	0
Total Commonwealth Africa	236,783 (218,804)	New Zealand	n.a.
		Papua New Guinea	5,533
		Samoa	70
Americas		Singapore	1
Antigua & Barbuda -	0	Solomon Islands	138
Bahamas	1	Tonga	2
Barbados	3	Tuvalu -	0
Dominica	0	Vanuatu	90
Grenada	0	Total Commonwealth South-east Asia & Pacific	15,876 (12,096)
Jamaica	560		
St Kitts & Nevis	0	Europe	
St Lucia	0	Cyprus	3
St Vincent & the Grenadines	0	Malta	0
Trinidad & Tobago	34	United Kingdom	176
Total Commonwealth Caribbean	598 (608)	Total Commonwealth Europe	179 (92)
Belize	126		
Canada	2,869	Total Commonwealth	622,915 (599,203)
Guyana	860	Total World	1,871,450 (1,766,278)

Source: State of the World's Forests 2009, FAO, Rome.
n.a. = not available.



Annex 4.3: Employment in Selected Commonwealth Countries in the Forestry Sector

Country	Employment (000)/% total labour force			Breakdown by employment categories in 2006 (000)*
	1990	2000	2006	
Africa				
Cameroon	30/0.7	30/0.5	20/0.3	02 (12); 20 (8); 21(1)
Ghana	33/0.5	39/0.4	43/0.4	02 (12); 20 (30); 21 (1)
Kenya	18/0.2	20/0.1	19/0.1	02 (1); 20 (10); 21 (8)
Mozambique	12/0.2	14/0.1	15/0.1	02 (12); 20 (3)
Nigeria	41/0.1	48/0.1	45/0.1	02 (24); 20 (3); 21 (18)
South Africa	139/1.0	172/0.9	116/0.5	02 (45); 20 (37); 21 (34)
Asia				
Bangladesh	32/0.1	30/0.0	36/0.0	02 (1); 20 (11); 21 (24)
India	482/0.1	429/0.1	481/0.1	02 (246); 20 (55); 21 (180)
Malaysia	171/2.4	219/2.4	248/2.3	02 (88); 20 (126); 21 (35)
Pakistan	42/0.1	45/0.1	58/0.1	02 (30); 20 (5); 21 (22)
Sri Lanka	23/0.3	25/0.3	23/0.3	02 (17); 20 (4); 21 (3)
Europe				
United Kingdom	264/0.9	205/0.7	166/0.6	02 (11); 20 (86); 21 (69)
Americas				
Canada	318/2.2	330/2.0	275/1.6	02 (63); 20 (128); 21 (84)
Asia & Pacific				
Australia	78/0.9	70/0.7	74/0.7	02 (11); 20 (42); 21 (21)
New Zealand	29/1.8	32/1.7	28/1.4	02 (7); 20 (16); 21 (5)
Papua New Guinea	17/0.9	12/0.5	12/0.4	02 (8); 20 (4)

Source: FAO (2008), Contribution of the forestry sector to national economies, 1990-2006, Forest Finance Working Paper FSFM/ACC/08, FAO, Rome.

Employment refers to actual or estimated formal employment related to the growing and extraction of raw materials, the primary production of goods, the provision of services, and unspecified forestry activities. Secondary wood processing is excluded. The figures quoted are for countries with more than 20,000 full-time jobs.

* Categories:

02 Forestry, logging and related service activities;

20 Manufacture of wood and wood products, except furniture;

21 Manufacture of paper and paper products.

Note that totals may not agree due to rounding.



Annex 5: Commonwealth Forestry Associations and Forestry Journals

Annex 5.1: Professional Forestry Associations in the Commonwealth

This list of professional forestry associations in the Commonwealth primarily covers associations and societies which deal with the subject of forestry rather than with wood-processing or other forestry-related subjects but some of these associations (and their journals – see *Annex 5.2*) have been included where they are of particular interest to foresters. The associations listed generally aim to pro-

mote the exchange of information among professional foresters, but accrediting institutions have also been included (*Chapter 5*).

A full list of Commonwealth NGOs with an interest in forestry was prepared in 2009 and placed on the CFA website (www.cfa-international.org) where it is updated regularly.

Professional Forestry Associations in the Commonwealth

Country	Name	Website
Australia	Australian (and New Zealand) Pulp and Paper Industry Technical Association (APPITA).	www.appita.com.au
	Institute of Foresters of Australia (IFA).	www.forestry.org.au
	Australian Forest Growers	www.afg.asn.au
Botswana	Forestry Association of Botswana	www.envngo.co.bw
Canada	The Canadian Institute of Forestry/Institut forestier du Canada	www.cif-ifc.org
	Association des consultants en foresterie du Québec	www.acfquebec.com
	Association of British Columbia Forest Professionals	www.abcfp.ca
	Association of Registered Professional Foresters of New Brunswick	
	L'Association des forestiers agréés du Nouveau-Brunswick	www.arpfnb.ca
	Association of Saskatchewan Forestry Professionals	www.asfp.ca
	Canadian Forestry Accreditation Board	www.cfab.ca
	Canadian Federation of Professional Foresters Associations	www.cif-ifc.org
	College of Alberta Professional Foresters	www.professionalforesters.ab.ca
	Ontario Professional Foresters Association (OPFA)	www.opfa.ca
	Ordre des ingénieurs forestiers du Québec	www.oifq.com
	Newfoundland and Labrador Registered Professional Foresters Association	http://cif-rpf-nlsection.com
Registered Professional Foresters Association of Nova Scotia (RPFANS)	www.rpfans.ca	
Ghana	Ghana Institute of Professional Foresters	
India	Society of Indian Foresters	
	Indian Institution of Foresters.	http://indianinstituteofforesters.blogspot.com
	Academy of Forests and Environmental Sciences (AFES)	
	Indian Academy of Wood Science (IAWS)	
	Indian Society of Tree Scientists	
	Society for Promotion of Wastelands Development (SPWD)	
Kenya	Forestry Society of Kenya (FSK)	
Nigeria	Forestry Association of Nigeria (FAN)	www.forestrynigeria.org
Pakistan	"All Foresters" blog	allforesters@lead.org.pk
South Africa	Southern African Institute of Forestry (SAIF)	www.saif.org.za
Sri Lanka	Association of Ex-Professional Foresters	
Tanzania	Tanzanian Association of Foresters (TAF)	www.tafonline.20m.com
United Kingdom	Institute of Chartered Foresters (ICF)	www.charteredforesters.org
	Royal Scottish Forestry Society (RSFS)	www.rsfs.org
	Royal Forestry Society of England, Wales and Northern Ireland (RFS)	www.rfs.org.uk
	The Arboricultural Association (AA)	www.trees.org.uk



Annex 5.2: Commonwealth Forestry Journals

A forestry journal is defined as a periodical publication, produced more-or-less at regular intervals (e.g. quarterly, yearly) devoted mainly to forestry issues.

Country	Title	Frequency*	Publisher/Contact	On-line version**
Commonwealth	<i>International Forestry Review</i>	Q	Commonwealth Forestry Association, Craven Arms, Salop SY7 9JJ	www.cfa-international.org www.forestry.org.au
Australia	<i>Australian Forestry</i>	Q	Institute of Foresters of Australia, PO Box 7002 Yarralumla ACT 2600	
	<i>Australian Forest Grower</i>	Q	Forest Industries House, 24 Napier Close, Deakin ACT 2600	www.afg.asn.au
	<i>APPITA Journal</i>	B	Australian (and New Zealand) Pulp and Paper Industry Technical Association, Carlton Clock Tower Suite 47, 255 Drummond Street Carlton Victoria 3053	www.appita.com.au
	<i>International Journal of Wildland Fire</i>	Q	CSIRO, ACT	www.publish.csiro.au/nid/114.htm
	<i>Tasforests</i>	A	Forestry Tasmania	www.forestrytas.com.au/forestrytas
Bangladesh	<i>Bangladesh Journal of Forest Science</i>	S	Bangladesh Forest Research Institute, Chittagong	www.bffri.gov.bd
Canada	<i>Canadian Journal of Forest Research</i>	M	National Research Council of Canada, Ottawa, ON K1A 0R6	www.pubs.nrc-cnrc.gc.ca/cgi
	<i>Forestry Chronicle</i>	B	Canadian Institute of Forestry, 151 Slater Street, Suite 504 Ottawa, ON K1P 5H3	www.cif-ifc.org
Ghana	<i>Ghana TIDD Gazette</i>	variable, 1-3 p.a.	Timber Industry Development Division, Ghana Forestry Commission, Takoradi	www.ghanatimber.org
India	<i>Indian Forester</i>	M	Post Office New Forest, Dehradun (Uttaranchal) – 248 006	www.icfri.org/institutes2/FRI-Indian%20Forester
	<i>Indian Journal of Forestry</i>	Q	23-A Connaught Place, PO Box no. 137, Dehra Dun 248001 Uttaranchal	www.scientific.thomson.com/contact/
	<i>Journal of Timber Development Association of India</i>	Q	Timber Development Association of India, Dehra Dun	www.journalofforestproducts.com
	<i>Wood News***</i>	Q	Ganesh Publications Pvt.Ltd. 151-75/5, 20th A Main First R Block, Rajajinagar, Bangalore 560 010	
	<i>Journal of Tropical Forestry***</i>		Society of Tropical Forestry Scientists, Jabalpur	
	<i>MYFOREST***</i>		Karnataka Forest Dept.	



Annex 5.2: Commonwealth Forestry Journals (continued)

Malaysia	<i>Journal of Tropical Forest Science</i>	Q	Forest Research Institute Malaysia, Kepong, 52109 Kuala Lumpur	www.frim.gov.my/epublication/
	<i>Journal of Tropical Forest Products</i>	B	Forest Research Institute Malaysia, Kepong, 52109 Kuala Lumpur	
New Zealand	<i>New Zealand Journal of Forestry Science</i>	T	Private Bag 3020 Rotorua	www.scionresearch.com/new+zealand+journal+of+forestry+science .
	<i>New Zealand Journal of Forestry</i>	Q	NZ Institute of Forestry, PO Box 19-840, Christchurch	www.forestry.org.nz
	<i>Southern Hemisphere Forest Industry Journal</i>	Q	PO Box 6215, Whakarewarewa, Rotorua 3220	www.southernhemisphereforestry.co.nz
Nigeria	<i>Nigerian Journal of Forestry</i> ***	S	Forestry Association of Nigeria, Ibadan	
Pakistan	<i>Pakistan Journal of Forestry</i>	Q	Pakistan Forest Institute, Peshawar-25120	
South Africa	<i>Southern Forests – A Journal of Forest Science</i> (replaced <i>Southern African Forestry Journal</i> in 2007)	T	Postnet Suite 329 Private Bag X4 Menlo Park 0102 New journal will be published by NISC	www.saif.org.za www.nisc.co.za
	<i>SA Forestry</i>	B	Artworks Communications, PO Box 47209, Greyville 4023	www.saforestymagazine.co.za
Sri Lanka	<i>Sri Lanka Forester</i> ***	S	Sri Lanka Forest Dept., Colombo	
Tanzania	<i>Tanzania Journal of Forestry and Nature Conservation</i>	S	Faculty of Forestry & Nature Conservation, Sokoine University	www.suanet.ac.tz
United Kingdom	<i>Forestry</i>	Q	Oxford University Press, Great Clarendon St. Oxford OX2 6DP	www.forestry.oupjournals.org
	<i>Arboricultural Journal</i>	Q	Arboricultural Association, Ampfield House, Ampfield, Romsey SO51 9PA	www.trees.org.uk/journal.php
	<i>Forestry Journal</i> (formerly <i>Forest Machine Journal</i> which merged with <i>Forestry and British Timber</i> in 2008)	M	Benn Brothers, London	www.fbti.co.uk
	<i>Journal of the Institute of Wood Science</i>	S		www.iwsc.org.uk/pubs_journal.htm
	<i>Forests, Trees and Livelihoods</i>	Q	AB Academic Publishers, The Old Vicarage, Church St. Bicester, Oxon OX26 6AY	www.foreststreesandlivelihoods.co.uk
	<i>Quarterly Journal of Forestry</i>	Q	Royal Forestry Society, 102 High St. Tring, Herts. HP23 4AF	www.rfs.org.uk
	<i>Scottish Forestry</i>	Q	Royal Scottish Forestry Society, Hagg-on-Esk Canonbie Dumfries DG14 0XE	www.rsfs.org.uk

Notes:

* M = monthly, B = bi-monthly, Q = quarterly, T = three times yearly, S = half-yearly, A = annual;

** usually available to members only;

*** these publications may not have been produced for several years.



Annex 6: International Forestry-related Fora, Agreements, Conventions and Regulations

Annex 6.1: Links to International Forestry-related Fora, Agreements, Conventions and Regulations

<i>Forum, Agreement, Convention or Regulations</i>	<i>Website</i>
IPCC	www.ipcc.ch
UN Framework Convention on Climate Change (UNFCCC)	www.unfccc.int
Kyoto Protocol – KP (of the UNFCCC)	(see UNFCCC)
Adaptation Fund	www.adaptation-fund.org/home
Clean Development Mechanism	(see UNFCCC)
UN Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries (UN-REDD)	www.un-redd.org/UNREDDProgramme
Forest Carbon Partnership Facility (FCPF)	www.forestcarbonpartnership.org/fcp
The Prince's Rainforest Project (PRP)	www.rainforestsos.org/pages/about-us
Ramsar Convention on Wetlands	www.ramsar.org
Convention on Biological Diversity (CBD)	www.cbd.int
UN Convention to Combat Desertification – UNCCD (in countries experiencing serious drought and/or desertification, particularly in Africa)	www.unccd.int
Convention on International Trade in Endangered Species (of wild fauna and flora) – CITES	www.cites.org
International Tropical Timber Organisation	www.itto.int
International Tropical Timber Agreement	(see ITTO)

Annex 6.2: Ratification of International Forestry Conventions by Commonwealth Countries, 2009

<i>Country</i>	<i>CBD</i>	<i>UNFCCC</i>	<i>KP</i>	<i>UNCCD</i>	<i>ITTA</i>	<i>CITES</i>	<i>Ramsar</i>	<i>Country</i>	<i>CBD</i>	<i>UNFCCC</i>	<i>KP</i>	<i>UNCCD</i>	<i>ITTA</i>	<i>CITES</i>	<i>Ramsar</i>
Africa								Caribbean							
Botswana	x	x	x	x		x	x	Antigua & Barbuda	x	x	x	x		x	x
Cameroon	x	x	x	x	x	x	x	Bahamas	x	x	x	x		x	x
Gambia	x	x	x	x		x	x	Barbados	x	x	x	x		x	x
Ghana	x	x	x	x	x	x	x	Dominica	x	x	x	x		x	
Kenya	x	x	x	x		x	x	Grenada	x	x	x	x		x	
Lesotho	x	x	x	x		x	x	Jamaica	x	x	x	x		x	x
Malawi	x	x	x	x		x	x	St Kitts & Nevis	x	x	x	x		x	
Mauritius	x	x	x	x		x	x	St Lucia	x	x	x	x		x	x
Mozambique	x	x	x	x		x	x	St Vincent & the Grenadines	x	x	x	x		x	
Namibia	x	x	x	x		x	x	Trinidad & Tobago	x	x	x	x	x	x	x
Nigeria	x	x	x	x	x	x	x	Central & North America							
Seychelles	x	x	x	x		x	x	Belize	x	x	x	x		x	x
Sierra Leone	x	x	x	x		x	x	Canada	x	x	x	x	x	x	x
South Africa	x	x	x	x		x	x	Guyana	x	x	x	x	x	x	
Swaziland	x	x	x	x		x		South Asia							
Tanzania	x	x	x	x		x	x	Bangladesh	x	x	x	x		x	x
Uganda	x	x	x	x		x	x	India	x	x	x	x	x	x	x
Zambia	x	x	x	x		x	x	Maldives	x	x	x	x		x	



Annex 6.2: Ratification of International Forestry Conventions by Commonwealth Countries, 2009 (continued)

Country	CBD	UNFCCC	KP	UNCCD	ITTA	CITES	Ramsar	Country	CBD	UNFCCC	KP	UNCCD	ITTA	CITES	Ramsar
Pakistan	x	x	x	x		x	x	Singapore	x	x	x	x			x
Sri Lanka	x	x	x	x		x	x	Solomon Islands	x	x	x	x			x
South-east Asia & Pacific								Tonga	x	x	x	x			
Australia	x	x	x	x	x	x	x	Tuvalu	x	x	x	x			
Brunei Darussalam	x			x			x	Vanuatu	x	x	x	x	x	x	x
Fiji	x	x	x	x	x	x	x	Europe							
Kiribati	x	x	x	x		x	x	Cyprus	x	x	x	x		x	x
Malaysia	x	x	x	x	x	x	x	Malta	x	x	x	x		x	x
Nauru	x	x	x	x				United Kingdom	x	x	x	x	x	x	x
New Zealand	x	x	x	x	x	x	x	Total Commonwealth	53	52	52	53	14	50	39
Papua New Guinea	x	x	x	x	x	x	x	Total World	190	190	184	192	60	175	159
Samoa	x	x	x	x		x	x								

Source: State of the World's Forests 2009, FAO, Rome.

Annex 6.3: Tree Species in CITES Appendices I, II and III

Appendix I	Appendix II	Appendix III	Appendix I	Appendix II	Appendix III
ARAUCARIACEAE (Monkey Puzzle) <i>Araucaria araucana</i>			PINACEAE (Guatemala fir) <i>Abies guatemalensis</i>		
CUPRESSACEAE (Cypresses) <i>Fitzroya cupressoides</i>			PODOCARPACEAE (Podocarps) <i>Podocarpus neriifolius</i>		
<i>Pilgerodendron uviferum</i>			ROSACEAE (African cherry, stinkwood) <i>Prunus africana</i>		
CYATHEACEAE (Tree ferns) <i>Cyathea spp</i>			TAXACEAE (Himalayan yew) <i>Taxus chinensis</i> <i>Taxus cuspidate</i> <i>Taxus fauna</i> <i>Taxus sumatrana</i> <i>Taxus wallichiana</i>		
JUGLANDACEAE (Gavilan) <i>Oreomunnea pterocarpa</i>			THYMELAEACEAE (Agarwood, ramin) <i>Aquilaria spp</i> <i>Gonystylus spp</i> <i>Gyrinops spp</i>		
LEGUMINOSEAE (Afromosia, cristobal, rosewood, sandalwood) <i>Caesalpinia echinata</i>			TROCHODENDRACEAE (Tetracentron) <i>Tetracentron sinense</i>		
<i>Dalbergia nigra</i>		<i>Dalbergia retusa</i> <i>Dalbergia stevensonii</i> <i>Dalbergia panamensis</i>	ZYGOPHYLLACEAE (Lignum-vitae) <i>Bulnesia sarmientoi</i>		
<i>Pericopsis elata</i> <i>Platymiscium pleiostachyum</i> <i>Pterocarpus santalinus</i>			<i>Guaiacum spp</i>		
MAGNOLIACEAE (Magnolia) <i>Magnolia liliifera</i> <i>var obovata</i>					
MELIACEAE (Mahoganies, Spanish cedar) <i>Cedrela odorata</i>					
<i>Swietenia humilis</i> <i>Swietenia macrophylla</i> <i>Swietenia mahogany</i>					

Source: CITES website www.cites.org/eng/app/appendices.

Appendix 1 species are endangered due to international trade, and their trade is only permitted in exceptional circumstances.

Appendix 2 species may become endangered if trade is not regulated through controls to prevent unsustainable use.

Appendix 3 species are those that are subject to domestic regulation.

Note that many of these entries are qualified by notes, which have not been reproduced here. Users are advised to check the CITES website.



Annex 7: Country Information

This Annex lists the contacts and (where available) the websites of Commonwealth forest services and national research and educational institutions, including Universities with forestry faculties or departments.

The list of Commonwealth non-government organisations and other bodies with a link to the forestry sector which appeared in the first edition of Commonwealth Forests has been updated and considerably extended. It will be made available on the CFA website at www.cfa-international.org.

ANTIGUA & BARBUDA

NATIONAL FOREST SERVICE

Forestry Unit

Ministry of Agriculture, Lands, Marine Resources & Agro Industries

Temple and Nevis St

St John's

Antigua

Fax: +1 268 462 6104

E-mail: fisheries@candw.ag

The Environment Division Ministry of Public Works, Telecommunications and the Environment

Factory Road, Government Complex

St John's

Antigua

Tel: +1 268 462 4625 / 0651

Fax: +1 268 462 6398 / 2836 / 460 6093

E-mail:

mail@environmentdivision.info

Website:

www.environmentdivision.info

AUSTRALIA

NATIONAL FOREST SERVICES

Department of Agriculture, Fisheries and Forestry (DAFF)

(DAFF's goal is to assist the forestry industry to grow, improve and capitalise on new opportunities while protecting the environment and contributing to the prosperity and quality of life in rural and regional Australia.)

GPO Box 858

Canberra ACT 2601

Tel: +61 2 6272 3933

Website: www.daff.gov.au

Department of the Environment and Heritage (DEH)

John Gorton Building

King Edward Terrace

Parkes ACT 2600

Website: www.deh.gov.au

NATIONAL RESEARCH AND TRAINING INSTITUTIONS

Forest and Wood Products Research and Development Corporation (FWPRDC)

Suite 607, Level 6, Yarra Tower

World Trade Centre

Melbourne VIC 3005

Website: www.fwprdc.org.au

Australian Centre for International Agricultural Research (ACIAR)

38 Thynne Street

Fern Hill Park

Bruce ACT

Website: www.aciar.gov.au

Commonwealth Scientific and Industrial Research Organisation (CSIRO)

Locked Bag 10

Clayton South VIC 3169

Tel: +61 3 9545 2176

Fax: +61 3 9545 2175

E-mail: Enquiries@csiro.au

Website: www.csiro.au/

UNIVERSITY FACULTIES/ DEPARTMENTS

The Australian National University (ANU) School of Resources, Environment and Society

The Australian National University

Canberra ACT 0200

Website: <http://sres.anu.edu.au/>

Southern Cross University (SCU) School of Environmental Science and Management

Southern Cross University

Military Road

Lismore NSW 2480

Website: www.scu.edu.au/schools/esm/

The University of Melbourne School of Forest and Ecosystem Science

School of Forest and Ecosystem
Science

Water Street

Creswick VIC 3363

Website: www.forests.science.unimelb.edu.au/

The University of Queensland

Brisbane QLD 4072

Website: www.uq.edu.au/

PROVINCIAL FOREST SERVICES

Australian Capital Territory

ACT Parks, Conservation and Lands

PO Box 158

ACT 2601

Tel: +61 2 6207 5111

Website: www.tams.act.gov.au/live/environment

New South Wales

Forests NSW, Department of Primary Industries

(Forests NSW, a public trading enterprise within NSW Department of Primary Industries)

PO Box 100

Beecroft NSW 2119

Tel: +61 2 9872 0111

Fax: +61 2 9871 6941

E-mail: cumberland@sf.nsw.gov.au

Website: www.dpi.nsw.gov.au/forests

Northern Territory

Department of Primary Industry, Fisheries and Mines

GPO Box 3000

Darwin NT 0801

Tel: +61 8 8999 5511

Fax: +61 8 8999 2010

E-mail: info.dpifm@nt.gov.au

Website: www.nt.gov.au/dpifm

Department of Natural Resources, Environment, and the Arts

PO Box 496

Palmerston NT 0831

Tel: +61 8 8999 5511

Fax: +61 8 8924 4053

Website: www.nt.gov.au/nreta

Queensland

Queensland Department of Primary Industries

(Responsible for Forestry including Industry Development and Research)

Tel: +61 7 3404 6999

Fax: +61 7 3404 6900

E-mail: callweb@dpi.qld.gov.au

Website: www.dpi.qld.gov.au

Forestry Plantations Queensland (Manages Queensland Government's softwood and hardwood forest plantations)

PO Box 3196

South Brisbane Q 4101

Tel: +61 7 3895 3340

Fax: +61 7 3895 3382

E-mail: information@fpq.net.au

Website: www.fpq.qld.gov.au

South Australia

Department of Primary Industries and Resources South Australia (PIRSA)

(Division of Department of Primary Industries and Resources, responsible for development and implementation of forest policy in South Australia)

Level 15, 25 Grenfell St

GPO Box 1671

Adelaide SA 5001

Tel: +61 8 8463 6363

Fax: +61 8 8226 0476

E-mail:

pirsaforestry@saugov.sa.gov.au

Website: www.pir.sa.gov.au/forestry

ForestrySA

The South Australia Forestry Corporation

(State-owned Corporation, owns and manages softwood plantations)

PO Box 162

Mount Gambier SA 5290

Tel: +61 8 8724 2888

Fax: +61 8 8724 2870

E-mail:

forestrysa@forestrysa.sa.gov.au

Website: www.forestry.sa.gov.au

Tasmania

Forestry Tasmania

(Has statutory responsibility for management of 1.5 M ha of State forest land)

GPO Box 207

Hobart TAS 7001

Tel: +61 3 6233 8203

Fax: +61 3 6233 8444

E-mail:

forestrytasmania@forestrytas.com.au

Website: www.forestrytas.com.au

Private Forests Tasmania

(Division of the Department of Infrastructure, Energy and Resources of the State Government of Tasmania)

PO Box 180

Kings Meadows TAS 7249

Tel: +61 3 6336 5300

Fax: +61 3 6336 5445

E-mail:

admin@privateforests.tas.gov.au



Website:
www.privateforests.tas.gov.au

Forest Practices Authority
(An independent statutory body that administers the forest practices system in Tasmania)
30 Patrick St
Hobart TAS 7000
Tel: +61 3 6233 7966
Fax: +61 3 6233 7954
Website: www.fpa.tas.gov.au

Victoria

Department of Sustainability and Environment
(Responsible for managing Victoria's forests, provides policy guidance for forested parks and reserves, conservation and incentives to private landholders with native forest or plantations)
8 Nicholson Street
East Melbourne Vic 3002
Tel: +61 3 5332 5000
E-mail:
customer.service@dse.vic.gov.au
Website: www.dse.vic.gov.au

VicForests
(Native forest timber harvesting and sales, commercial management of State forests)
GPO Box 191
Melbourne Vic 3001
Tel: +61 3 9608 9500
Fax: +61 3 9608 9566
E-mail: vfs.admin@vicforests.com.au
Website: www.vicforests.com.au

(Research) Department of Primary Industries
GPO Box 4440
Melbourne Vic 3001
Tel: +61 3 9658 4440
Fax: +61 3 9658 4760
E-mail:
information.centre@dpi.vic.gov.au
Website: www.dpi.vic.gov.au

Western Australia

Department of Environment and Conservation
The Atrium, Level 4
168 St Georges Terrace
Perth WA 6000
Tel: +61 8 6467 6500
Fax: +61 8 6467 5562
Website: www.dec.wa.gov.au

Forest Products Commission
(Statutory authority and lead government agency for managing WA's forest resources; also oversees the comprehensive framework for regional forest-related industry development)
Level 1, 117 Great Eastern Highway
Rivervale WA 6103
Tel: +61 8 9475 8888
Fax: +61 8 9475 8899
E-mail: info@fpc.wa.gov.au
Website: www.fpc.wa.gov.au

BAHAMAS

NATIONAL FOREST SERVICE
Department of Lands and Surveys (Forestry Section)
Office of the Prime Minister
PO Box 592
Nassau, N.P.
Fax: +1 242 322 5830
E-mail (organisation):
forestry@batelnet.bs
Website: www.bahamas.gov.bs

Department of Agriculture (Conservation Unit)
Ministry of Agriculture and Marine Resources
Levy Building
PO Box N 3028
Nassau, N.P.
Tel: +1 242 325 7502 / 9
Fax: +1 242 325 3960

Department of Physical Planning
Ministry of Works and Utilities
John F. Kennedy Drive
PO Box N 1611
Nassau, N.P.
Bahamas
Tel: +1 242 322 7220 / 1
Fax: +1 242 328 3206
E-mail: admin@mowt.bs
Website: www.bahamas.gov

Water and Sewerage Corporation
Department of Public Works
Ministry of Works and Utilities
PO Box N 3905
Nassau, N.P.
Tel: +1 242 302 5500
Fax: +1 242 328 3896
E-mail: admin@mowt.bs
Website: www.wsc.com.bs/

Bahamas Environment Science and Technology Commission (BEST)
Ministry of Energy and the Environment

Cecil Wallace-Whitfield Centre
Cable Beach
PO Box N 3217
Nassau, N.P.
Tel: +1 242 325 7502 / 9
Fax: +1 242 322 1767
E-mail: bestnbs@hotmail.com
Website: www.best.bs

RESEARCH INSTITUTIONS

Bahamas Environmental Research Centre (BERC)
The College of the Bahamas
Oakes Field Campus
Thompson Boulevard
PO Box N4912
Nassau, N.P.
Tel: +1 242 302 4300
Fax: +1 242 326 7834
Website: www.cob.edu.bs/BERC.php

Gerace Research Center
c/o Twin Air
498 SW 34th St.
Ft Lauderdale, FL 33315
USA
Tel: +1 242 331 2520
Fax: +1 242 331 2524
Website:
www.geraceresearchcenter.com

Marine and Environmental Studies Institute (MESI)
T Block, Oakes Field Campus
Thompson Boulevard
PO Box N4912
Nassau, N.P.
Tel: +1 242 302 4400
Fax: +1 242 326 7834
Website: www.cob.edu.bs/MESI.php

UNIVERSITIES AND COLLEGES

The College of the Bahamas
Oakes Field Campus
Thompson Boulevard
PO Box N4912
Nassau, N.P.
Tel: +1 242 302 4400
Fax: +1 242 326 7834
Website: www.cob.edu.bs

BANGLADESH

NATIONAL FOREST SERVICE

Forest Department
Bana Bhaban
1207 Dhaka
Tel: +880 2 882 8364
Fax: +880 2 881 0704
E-mail: accf-dp@bforest.gov.bd
Website: www.moef.gov.bd

BARBADOS

NATIONAL FOREST SERVICE

Ministry of Agriculture and Rural Development
Government of Barbados
Graeme Hall
Christ Church
Fax: +1 246 420 8444
E-mail: minagric@caribsurf.com
Website: www.agriculture.gov.bb

National Conservation Commission (NCC)
Codrington House
St Michael
Tel: +1 246 425 1200/1212
E-mail: ncc@caribsurf.com
Website: www.nccbarbados.gov.bb

RESEARCH INSTITUTIONS

Bellairs Research Institute
Holetown
St James
Tel: +1 246 422 2087
Fax: +1 246 422 0692
E-mail: bellairs@caribsurf.com
Website: www.mcgill.ca/bellairs

National Council for Science and Technology (NCST)
Reef Road
Fontabelle
St Michael
Tel: +1 246 427 1820 / 5270 / 5276
Fax: +1 246 228 5765
E-mail: ncst@commerce.gov.bb
Website:
www.commerce.gov.bb/agency/ncst

UNIVERSITIES AND COLLEGES

Barbados Community College (BCC)
The Eyrie, Howells Cross Road
St Michael
Tel: +1 246 426 2858
Fax: +1 246 429 5935
Website: <http://bcc.edu.bb>

University of the West Indies
Cave Hill Campus
PO Box 64
Bridgetown
Tel: +1 246 417 4000
Fax: +1 246 4251327
Website: www.cavehill.uwi.edu

**BELIZE**

NATIONAL FOREST SERVICE

**Forest Department
Ministry of Natural Resources,
Local Government and the
Environment**

23/25 Unity Boulevard
Belmopan City
Tel: +501 822 2079 / 1524
Fax: +501 822 1523
E-mail: forestry@mnrei.gov.bz
Website: www.mnrei.gov.bz
www.chm.org.bz/forestdepartment/belizeFD/

RESEARCH INSTITUTIONS

Hill Bank Field Station

PO Box 749
1 Eyre Street
Belize City
Tel: +501 227 5616 / 5617 / 1020
Fax: +501 227 5635
E-mail: pfbel@btl.net
Website: www.pfbelize.org/hillbank.html

**Las Cuevas Research Station and
Explorers Lodge**

PO Box 410
Belmopan
E-mail: enquiries@mayaforest.com
Website: www.mayaforest.com

UNIVERSITIES AND COLLEGES

Galen University

P.O. Box 177
San Ignacio
Cayo District
Tel: +501 824 3226
Fax: +501 824 3723
E-mail: galenu@btl.net
Website: www.galen.edu.bz

Sacred Heart Junior College (SHJC)

PO Box 163
San Ignacio
Cayo District
Website: www.shc.edu.bz/shjc

**University of Belize
Natural Resources Management
Programme**

Faculty of Science and Technology
PO Box 340
Belmopan
Tel: +501 822 3680
Fax: +501 822 3930
E-mail: aperez@ub.edu.bz;
ubboles@yahoo.com
Website: www.ub.edu.bz

BERMUDA

NATIONAL FOREST SERVICE

**Department of Conservation
Services**

40 North Shore Road
Flatts FL 04
Tel: +1 441 293 2727
Website: www.gov.bm

**Department of Environmental
Protection**

PO Box HM 834
Hamilton HM CX
Tel: +1 441 236 4201
Fax: +1 441 236 7582
Website: www.gov.bm

Department of Parks

PO Box HM 20
Hamilton HM AX
Tel: +1 441 236 4201
Fax: +1 441 236 3711
Website: www.gov.bm

RESEARCH INSTITUTIONS

**Bermuda Aquarium, Museum and
Zoo (BAMZ)**

PO Box FL 145
Flatts FL BX
Tel: +1 441 293 2727
Fax: +1 441 293 4014
E-mail: info.bzs@gov.bm
Website: www.bamz.org

UNIVERSITIES AND COLLEGES

Bermuda College

PO Box PG 297
Paget PG BX
Tel: +1 441 236 9000
Fax: +1 441 239 4008
E-mail: info@bercol.bm
Website: www.bercol.bm

BOTSWANA

NATIONAL FOREST SERVICE

**Department of Forestry and Range
Resources**
**Ministry of Environment, Wildlife
and Tourism**

Private Bag 00424
Gaborone
Tel: +267 395 4050 / 318 8554
Fax: +267 395 4051

UNIVERSITIES AND COLLEGES

The University of Botswana

Private Bag UB 0022
Gaborone

Tel: +267 355 0000

Fax: +267 395 6591

Website: www.ub.bw**BRUNEI DARUSSALAM**

NATIONAL FOREST SERVICE

Forestry Department

Ministry of Industry and Primary
Resources
Jalan Menteri Besar,
Bandar Seri Begawan BB3910
Website: www.forestry.gov.bn

CAMEROON

NATIONAL FOREST SERVICE

**Ministère des forêts et de la faune
Yaoundé**

Tel: +237 22 22 94 83 or 22 22 94 86
Fax: +237 22 22 94 84
Websites: www.minfof-cm.org/
www.minfof.gov.cm

RESEARCH INSTITUTIONS

**Institute of Agricultural Research
for Development (IRAD)**

PO Box 2067 or 2123
Yaoundé
Tel/Fax: +237 22 22 59 24 / 22 33 62 / 23 26 44
Website: www.irad-cameroon.org

UNIVERSITY FACULTIES/
DEPARTMENTS
**Bamenda University of Science &
Technology**

PO Box 277
Bamenda NW Province
Tel/Fax: +237 36 33 66

Université des Montagnes (UdM)

BP 208
Bangante
Tel: +234 48 90 89 / 20 65 89 /
20 72 21

CANADA

NATIONAL FOREST SERVICE

Canadian Forest Service (CFS)

Headquarters
580 Booth Street
Ottawa
Ontario K1A 0E4
Tel: +1 613 947 7341
Fax: +1 613 947 7397
Website: www.nrcan-rcan.gc.ca/com

*Canadian Forest Service Centres:***Pacific Forestry Centre**

506 West Burnside Road
Victoria, British Columbia V8Z 1M5
Tel: +1 250 363 0600 / 0608
Fax: +1 250 363 0775
Website: www.pfc.cfs.nrcan.gc.ca/index_e.html

Northern Forestry Centre

5320 – 122nd Street
Edmonton
Alberta T6H 3S5
Tel: +1 780 435 7210 / 7202
Fax: +1 780 435 7359
Website: <http://nofc.cfs.nrcan.gc.ca>

Saskatchewan Liaison Office

#250, 1288 Central Avenue
Prince Albert
Saskatchewan S6V 4V8
Tel: +1 306 953 8548
Fax: +1 306 953 8649

Great Lakes Forestry Centre

1219 Queen Street East
Sault Ste Marie
Ontario P6A 2E5
Tel: +1 705 949 9461
Fax: +1 705 541 5700
Website: www.glfc.cfs.nrcan.gc.ca

Petawawa Research Forest

PO Box 2000
Chalk River
Ontario K0J 1J0
Tel: +1 613 589 3009
Fax: +1 613 589 2275
Website: www.glfc.cfs.nrcan.gc.ca/petawawa

Laurentian Forestry Centre

1055 du P.E.P.S., PO Box 10380
Quebec
Quebec G1V 4C7
Tel: +1 418 648 5788
Fax: +1 418 648 5849
Website: <http://cfs.nrcan.gc.ca/regions/lfc>

Atlantic Forestry Centre

PO Box 4000
Regent Street
Fredericton
New Brunswick E3B 5P7
Tel: +1 506 452 3500
Fax: +1 506 452 3525
Website: <http://cfs.nrcan.gc.ca/regions/afc>

Corner Brook Office

University Drive
Corner Brook
Newfoundland and Labrador A2H 6P9



Tel: +1 709 637 4900
 Fax: +1 709 637 4910
 Website:
<http://cfs.nrcan.gc.ca/regions/afc>

Acadia Research Forest
 PO Box 4000
 Fredericton
 New Brunswick E3B 5P7
 Tel: +1 506 472 6928
 Fax: +1 506 472 7916
 Website:
<http://cfs.nrcan.gc.ca/subsite/ferns/acadia>

CANADA'S MODEL FORESTS

International Model Forest Network Secretariat
 250 Albert Street
 PO Box 8500
 Ottawa
 Ontario K1G 3H9
 Tel: +1 613 236 6163
 Fax: +1 613 234 7457
 Website: www.idrc.ca/imfn

Bas-Saint-Laurent Model Forest
 Université du Québec à Rimouski
 300 allée des Ursulines, Room J-463
 Rimouski
 Quebec G5L 3A1
 Tel: +1 418 722 7211
 Fax: +1 418 721 5630
 E-mail: foretmodele@fmodbsl.qc.ca
 Website: www.foret.fmodbsl.qc.ca

Eastern Ontario Model Forest
 PO Bag 2111
 Kemptville
 Ontario K0G 1J0
 Tel: +1 613 258 8241
 Fax: +1 613 258 8363
 E-mail: modelforest@eomf.on.ca
 Website: www.eomf.on.ca

Foothills Model Forest
 Box 6330
 Hinton
 Alberta T7V 1X6
 Tel: +1 780 865 8330
 Fax: +1 780 865 8331
 Website: www.fmf.ca

Fundy Model Forest
 701 Main Street, Suite 2
 Sussex
 New Brunswick E4E 7H7
 Tel: +1 506 432 7575 Toll free: 1 800 546 4838
 Fax: +1 506 432 7562
 E-mail: info@FundyModelForest.net
 Website: www.fundymodelforest.net

Lake Abitibi Model Forest
 PO Box 129
 Cochrane
 Ontario P0L 1C0
 Tel: +1 705 272 7800
 Fax: +1 705 272 2744
 E-mail: office@lamf.net
 Website: www.lamf.net

Manitoba Model Forest
 PO Box 6500
 Pine Falls
 Manitoba R0E 1M0
 Tel: +1 204 367 5232
 Fax: +1 204 367 8897
 Website:
www.manitobamodelforest.net

McGregor Model Forest
 PO Box 2640
 Prince George
 British Columbia V2N 4T5
 Tel: +1 250 612 5840
 Fax: +1 250 612 5848
 Website: www.mcgregor.bc.ca

Nova Forest Alliance
 PO Box 208
 Stewiacke
 Nova Scotia B0N 2J0
 Tel: +1 902 639 2921
 Fax: +1 902 639 2981
 E-mail: info@novaforestalliance.com
 Website:
www.novaforestalliance.com

Prince Albert Model Forest
 PO Box 2406
 Prince Albert
 Saskatchewan S6V 7G3
 Tel: +1 306 922 1944
 Fax: +1 306 763 6456
 E-mail: pamf@sasktel.net
 Website: www.pamodelforest.sk.ca

Waswanipi Cree Model Forest
 Waswanipi
 Quebec J0Y 3C0
 Tel: +1 819 753 2900
 Fax: +1 819 753 2904
 Website: www.wcmf.ca

Western Newfoundland Model Forest
 Forest Centre
 University Drive
 PO Box 68
 Corner Brook
 Newfoundland and Labrador A2H 6C3
 Tel: +1 709 637 7300
 Fax: +1 709 634 0255
 E-mail: wnmf@wnmf.com
 Website: www.wnmf.com

NATIONAL FOREST STRATEGY

National Forest Strategy Coalition Secretariat
 580 Booth Street, 8th Floor
 Ottawa
 Ontario K1A 0E4
 Tel: +1 613 947 9031
 Fax: +1 613 947 9033
 E-mail: info@foreststrategy.ca
 Website:
http://npsc.forest.ca/index_e.htm

PROVINCIAL/TERRITORIAL GOVERNMENTS – FOREST SERVICES

Alberta

Sustainable Resource Development – including Forest Protection Division, Public Lands and Forests Division
Strategic Forestry Initiatives
 Information Centre
 Main Floor, 9920 108 Street
 Edmonton
 Alberta T5K 2M4
 Tel: +1 780 944 0313
 Fax: +1 780 427 4407
 Website: www.srd.gov.ab.ca

Alberta Forest Service, Program Support Branch
 9920-108 Street, 10th Floor Bramalea Building
 Edmonton
 Alberta T5K 2M4
 Tel: +1 780 422 6535

Alberta Land and Forest Service, Forest Protection Division, Forest Health Branch
 9920 – 108 Street, 10th Floor GWL Building
 Edmonton
 Alberta T5K 2M4
 Website: www.arc.ab.ca

British Columbia

Ministry of Forests and Range
 PO Box 9529, Stn Prov Govt
 Victoria
 British Columbia V8W 9C3
 Tel: +1 250 387 1040
 Fax: +1 250 387 6240
 Website: www.gov.bc.ca/for

British Columbia, Ministry of Forests, Research Branch
 31 Bastion Square
 Victoria
 British Columbia V8W 3E7
 Tel: +1 250 387 6642

Manitoba

Manitoba Conservation Forestry Branch
 200 Saulteaux Crescent
 Winnipeg
 Manitoba R3J 3W3
 Tel: +1 204 945 7989
 Website:
www.gov.mb.ca/conservation/forestry

New Brunswick

Natural Resources and Energy Hugh John Fleming Forestry Centre
 PO Box 6000
 Fredericton
 New Brunswick E3B 5H1
 Tel: +1 506 453 2516
 Fax: +1 506 453 6689
 Website: www.gnb.ca

Newfoundland and Labrador

Forest Resources
 Fortis Building
 PO Box 2006
 Corner Brook
 Newfoundland and Labrador A2H 6J8
 Tel: +1 709 637 2349 / 2284
 Fax: +1 709 637 2403 / 634 4378
 Website: www.nr.gov.nl.ca/forestry

Northwest Territories

Forest Management Division
Department of Environment and Natural Resources
Government of the Northwest Territories
 PO Box 7
 Fort Smith
 Northwest Territories X0E 0P0
 Tel: +1 867 872 7700
 Fax: +1 867 872 2077
 Website:
<http://forestmanagement.enr.gov.nt.ca>

Nova Scotia

Natural Resources – Forestry Division
 PO Box 698
 Halifax
 Nova Scotia B3J 2T9
 Tel: +1 902 424 5935
 Fax: +1 902 424 7735
 Website: www.gov.ns.ca/natr



Nunavut Territory

Department of the Environment
PO Box 1000 Station 1300
Iqaluit
Nunavut Territory X0A 0H0
Tel: +1 867 975 7700 Toll free: 1 866 222 9063
Fax: +1 867 975 7742
Website:
www.gov.nu.ca/Nunavut/environment

Ontario

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Roberta Bondar Place
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Ontario P6A6V5
Tel: +1 705 945 6661
Fax: +1 705 945 6667
Website: www.mnr.gov.on.ca/MNR

Ontario Forest Research Institute
Ontario Ministry of Natural Resources
1235 Queen St. E.
Sault Ste Marie
Ontario P6A 2E5
Tel: +1 705 946 2981
Fax: +1 705 946 2030
E-mail:
information.ofri@mnr.gov.on.ca

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Jones Building, 4th and 5th Floors
11 Kent Street
PO Box 2000
Charlottetown
Prince Edward Island C1A 7N8
Tel: +1 902 368 5000
Fax: +1 902 368 5830
Website: www.gov.pe.ca/enveng

Quebec

Ministry of Natural Resources of Quebec
Forest Research Branch
Ministère des Ressources Naturelles, Forêt Québec, Direction de la Recherche Forestière
2700, rue Einstein
Sainte-Foy
Quebec G1P 3W8
Tel: +1 418 627 8652
Fax: +1 418 528 1278

E-mail: foretquebec@mrf.gouv.qc.ca
Website: www.mrn.gouv.qc.ca

Quebec Forest Research Council
Conseil de la Recherche Forestière du Québec
1200 avenue Germain des Prés,
Bureau 103
Sainte Foy
Quebec GIV 3M7
E-mail: crfq@qbc.clic.net
Website: www.qbc.clic.net/crfq

Saskatchewan

Saskatchewan Environment – Forest Service Branch
Box 3003, 1061 Central Avenue
Prince Albert
Saskatchewan S6V 6G1
Tel: +1 306 953 2437
Fax: +1 306 953 2360
Website: www.se.gov.sk.ca/forests

Saskatchewan Environment and Resource Management, Forest Ecosystem Branch, Forest Science Section
Box 3003 (800 Central Avenue)
Prince Alberta
Saskatchewan S6V 6G1
Website: www.gov.sk.ca

Yukon Territory

Energy, Mines and Resources – Forestry Branch
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Mile 918 Alaska Highway
Box 2703 (K-918)
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Tel: +1 867 456 3999 Toll free: 1 800 661 0408 ext. 3999
Fax: +1 867 667 3138
E-mail: forestry@gov.yk.ca
Website: www.emr.gov.yk.ca/forestry/index.html

NATIONAL RESEARCH INSTITUTIONS

Acadia Research Forest (ARF)
PO Box 4000
Fredericton
New Brunswick E3B 5P7
Tel: +1 506 472 6928
Fax: +1 506 472 7916
Website: <http://cfs.nrcan.gc.ca/site/ferns/acadia>

Alberta Research Council (ARC)
250 Karl Clark Road
Edmonton
Alberta T6N 1E4

Tel: +1 780 450 5111
Fax: +1 780 450 5333
Website: www.arc.ab.ca

Canadian Forest Service (CFS)

Headquarters
580 Booth Street
Ottawa
Ontario K1A 0E4
Tel: +1 613 947 7341
Fax: +1 613 947 7397
Website:
www.nrcan-rncan.gc.ca/com

Canadian Interagency Forest Fire Centre (CIFFC)

210-301 Weston Street
Winnipeg
Manitoba R3E 3H4
Tel: +1 204 784 2030
Fax: +1 204 956 2398
Website: www.ciffc.ca

FORAC Research Consortium

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Fax: +1 418 656 7415
E-mail: info@forac.ulaval.ca
Website: www.forac.ulaval.ca

Forest Ecosystem Science Co-operative Inc.

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Forest Engineering Research Institute of Canada (FERIC)

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Fax: +1 514 694 4351
Website:
www.feric.ca/splashindex.htm

Forestry Research Partnership

c/o The Canadian Ecology Centre
PO Box 430, Hwy 17 West
Mattawa
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Tel: +1 705 744 1715 ext. 585
E-mail: forest@canadianecology.ca
Website: www.forestresearch.ca

Forintek Canada Corp.

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Fax: +1 604 222 5690
Website: www.forintek.ca

International Development Research Centre (IDRC)

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E-mail: info@idrc.ca
Website: www.idrc.ca

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Fax: +1 613 947 9020
Website: www.imfn.net

Petawawa Research Forest

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Chalk River
Ontario K0J 1J0
Tel: +1 613 589 3009
Fax: +1 613 589 2275
Website:
www.gjfc.cfs.nrcan.gc.ca/petawawa/

Pulp and Paper Research Institute of Canada (Paprican)

Pointe-Claire
570 blvd St-Jean
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Quebec H9R 3J9
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Fax: +1 514 630 4134
Website: www.paprican.ca

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 Bois et de la Forêt**
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www.cegep-baie-comeau.qc.ca

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 Prince George
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 371 8111
 Website:
www.cnc.bc.ca/CNC_Programs/

College of the North Atlantic (CNA)
 Corner Brook Campus
 141 O'Connell Drive
 Corner Brook
 Newfoundland and Labrador A2H
 6H6
 Tel: +1 709 637 8530
 Fax: +1 709 634 2126
 Website:
www.cna.nl.ca/programscourses/

Confederation College
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 Tel: +1 807 475 6110
 Website:
www.confederationc.on.ca/programs/

Hinton Training Centre
 1176 Switzer Drive
 Hinton
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 Fax: +1 780 865 8266
 E-mail: Hinton.Training@gov.ab.ca
 Website:
www.srd.gov.ab.ca/forests/resedu/etc/

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 Forestry and the Forest
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 Website: www.lakeheadforestry.ca

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 E-mail: info@mala.bc.ca
 Website: [www.mala.ca/calendar/
 Technology/forestresources.asp](http://www.mala.ca/calendar/Technology/forestresources.asp)

**Maritime College of Forest
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 Website: www.nait.ca/programs/FOT/

Northern Lights College
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E-mail: appinfo@nlc.bc.ca
 Website:
http://nlc.bc.ca/public_program

**Saskatchewan Institute of Applied
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 Website: [www.siastr.sk.ca/siastr/
 education/training/](http://www.siastr.sk.ca/siastr/education/training/)

**Selkirk College – School of
 Renewable Resources**
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 Website: [http://selkirk.ca/programs/rr/
 academicprograms/foresttechnology](http://selkirk.ca/programs/rr/academicprograms/foresttechnology)

**Simon Fraser University – School of
 Resource and Environmental
 Management**
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 Website: www.rem.sfu.ca

**Sir Sandford Fleming College –
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 Natural Resource Sciences**
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 Fax: +1 705 878 9312
 Website:
[www.flemingc.on.ca/index.cfm/go/
 school/sub/senrs.cfm](http://www.flemingc.on.ca/index.cfm/go/school/sub/senrs.cfm)

**University College of the Cariboo
 Department of Natural Resource
 Sciences**
 Thompson Rivers University
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 Kamloops
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www.cariboo.bc.ca/schs/nrsc/index.htm

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 2-14 Agriculture-Forestry Centre

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 Website: www.forestry.ubc.ca

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 E-mail: arcese@interchange.ubc.ca
 Website: [http://farpoint.forestry.ubc.
 ca/fp/?parcese](http://farpoint.forestry.ubc.ca/fp/?parcese)

**Université Laval – Département des
 sciences du bois et de la forêt**
 Pavillon Abitibi-Price, bureau 3137
 Faculté de foresterie et de
 géomatique
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 Website: <http://www2.sbf.ulaval.ca/>

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 Edmundston – Faculté de foresterie**
 165 blvd Hébert
 Edmundston
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 Website: www.umce.ca/foresterie/

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 Website: www.unbf.ca/forestry/



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E-mail: woodsci@unb.ca
Website: www.unb.ca/forestry/centrs/wstc.htm

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3333 University Way
Prince George
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Fax: +1 250 960 5539
Website: www.unbc.ca/forestry/

University of Quebec in Abitibi-Témiscamingue – Forest Research and Development Unit (URDFAT)
445 blvd de l'Université
Rouyn-Noranda
Quebec J9X5E4
Website: www.uqat.quebec.ca

Université du Québec à Montréal – Groupe de Recherche en Ecologie Forestière
C.P. 8888 Succ. A
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Québec H3C 398
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Fax: +1 514 987 4647
E-mail: R20724@ER.UQAM.CA

Université du Québec à Trois-Rivières – Centre de Recherche en Pâte et Papiers
3351 blvd des Forges
Trois-Rivières
Quebec G9A 5H7
E-mail:
H-Claude-Lavallee@uqtr.quebec.ca

Université du Québec – Centre Multirégional de Recherche en Foresterie
531 blvd des Prairies
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Fax: +1 819 797 4727

University of Toronto – Faculty of Forestry Earth Sciences Centre
33 Willcocks Street
Toronto
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Fax: +1 416 978 3834
Website: www.forestry.utoronto.ca

CYPRUS

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**Forestry Department
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Loukis Akritas Avenue 26
1414 Nicosia
Tel: +357 22 805517
Fax: +357 22 805542
Website: www.moa.gov.cy/moa/Agriculture.nsf/index_en

NATIONAL RESEARCH AND TRAINING INSTITUTION

The Cyprus Forestry College
E-mail: forcollege@cytanet.com.cy

DOMINICA (COMMONWEALTH OF)

NATIONAL FOREST SERVICE

**Forestry, Wildlife and Parks Division
Ministry of Agriculture and the Environment**
Botanical Gardens
Roseau 00109-8000
Tel: +1 767 448 2733
E-mail: forestry@cwdom.dm
Website: www.avirtualdominica.com/forestry

RESEARCH INSTITUTIONS

Archbold Tropical Research and Education Center (ATREC)
Website:
www.springfield-dominica.org

FIJI

NATIONAL FOREST SERVICE

**Department of Forestry
Ministry of Forest and Fisheries**
Government Buildings
46 Knolly St
PO Box 2218
Suva
Website: www.fiji.gov.fj/publishm_fish_forest

GAMBIA

NATIONAL FOREST SERVICE

Forestry Department of the Gambia
Forestry Department
5C, Marina Parade
Banjul
Tel: +220 422 7307
Fax: +220 422 4765

Email: forestry.dept@gamtel.gm
Website: www.crdfp.org/fd.htm

GHANA

NATIONAL FOREST SERVICE

The Forestry Commission of Ghana,
PMB 434
Accra
Tel: +233 21 401210 / 401227 / 401216 / 401231 / 3 / 9
Fax: +233 21 401197
Website: www.fcghana.com/forestry_commission

NATIONAL RESEARCH AND TRAINING INSTITUTION

Forestry Research Institute of Ghana
PO Box 63
Kumasi
Tel: +233 51 60122 / 60123 / 60373
Fax: +233 51 60121
www.forig.org/forig/history.html

UNIVERSITY FACULTIES/
DEPARTMENTS

Kwame Nkrumah University of Science and Technology
Private Mail Bag
Kumasi
Tel: +233 51 60334 / 60137
Fax: +233 51 60137
Website: www.knust.edu.gh/academics/colleges.htm

GRENADA

NATIONAL FOREST SERVICE

**Forestry and National Parks Department
Ministry of Agriculture, Lands, Forestry and Fisheries**
Energy, Public Utilities, Marketing and the National Importing Board
Botanical Gardens
Queen's Park
St George's
Tel: +1 473 440 2708 / 3078 / 3083
Fax: +1 473 440 4191
E-mail: fnpd@caribsurf.com
Website (Ministry):
<http://agriculture.gov.gd>

UNIVERSITIES AND COLLEGES

St. George's University (SGU)
University Centre
E-mail: sguinfo@sgu.edu
Website: www.sgu.edu

TA Marryshow Community College (TAMCC)
Tanteen
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Tel: +1 473 440 1389
Fax: +1 473 440 3079
E-mail: tamcc@caribsurf.com
Website: www.tamcc.edu.gd

University of the West Indies Centre (UWI Centre)
University Centre
Marryshow House
PO Box 439
St George's
Tel: +1 473 440 2451
Fax: +1 473 440 4985
E-mail: rtscsuwi@caribsurf.com
Website: www.uwi.edu

GUYANA

NATIONAL FOREST SERVICE

**Guyana Forestry Commission (GFC)
Ministry of Agriculture**
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1 Water Street Kingston
Georgetown
Tel: +592 226 7271 / 4
Fax: +592 226 8956
E-mail:
forestry.cof@solutions2000.net
Website: www.forestry.gov.gy

RESEARCH INSTITUTIONS

Institute of Applied Science & Technology (IAST)
IAST Building
Turkeyen
Greater Georgetown
Tel: +592 222 4214
Fax: +592 222 4229
E-mail: iast@networksgy.com
Website: www.iastguyana.org

Iwokrama International Centre for Rain Forest Conservation and Development
PO Box 10630
77 High Street, Kingston
Georgetown
Tel: +592 225 1504
Fax: +592 225 9199
E-mail:
iwokrama-general@iwokrama.org
Website: www.iwokrama.org

Tropenbos-Guyana programme (TGP)
Lot 12E Garnett Street
Campbellville
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Tel/Fax: +592 226 2846
Website: www.bio.uu.nl/tropenbos/index.htm

UNIVERSITIES, COLLEGES AND OTHER TRAINING CENTRES

UNIVERSITIES AND COLLEGES

Guyana School of Agriculture
Mon Repos

East Coast Demerara, Guyana
Website: www.sdn.org.gy/minagri/gsa/index

University of Guyana
Turkeyen Campus
PO Box 10-1110

Greater Georgetown
Tel: +592 222 5402
Fax: +592 222 2490
E-mail: pro@uog.edu.gy
Website: www.uog.edu.gy

OTHER TRAINING CENTRES

Bina Hill Institute

Annai Amerindian District, North Rupununi
Region 9

E-mail: binahill@yahoo.co.uk
Website: www.iwokrama.org/people/binahill.htm

Forestry Training Centre (FTC)
Website: www.forestry.gov.gy/ftc.htm

Iwokrama International Centre for Rain Forest Conservation and Development
(as above)

INDIA

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 Salt Lake City
 Sector – 3, Block – La-10a
 Kolkata – 700 098
 Tel: +91 33 2335 8580
 Fax: +91 33 2335 8756

Conservator of Forests Bhubaneswar
 Shri Richard D'Souza
 Managing Director
 Goa Forest Development Corporation
 Goa

RESEARCH AND TRAINING INSTITUTIONS

Indian Council of Forestry Research and Education (ICFRE)
 PO New Forest
 Dehra Dun 248006
 Uttrakhand
 Tel: +91 135 275 9382
 Fax: +91 135 275 5353
 E-mail: dg@icfre.org
 Website: www.icfre.org

Forest Research Institute, Dehra Dun
 PO New Forest
 Dehra Dun 248006
 Uttrakhand
 Tel: +91 135 275 5277
 E-mail: dir.fri@icfre.org
 Website: www.fri.res.in

Arid Forest Research Institute, Jodhpur
 PO Krishi Upaz Mandi
 New Pali Road
 Jodhpur – 342005
 Tel: +91 291 272 2549
 E-mail: dir.afri@icfre.org
 Website: www.afri.res.in

Himalayan Forest Research Institute, Shimla
 Panihaghathi
 New Shimla 171009
 Himachal Pradesh
 Tel: +91 177 262 6778
 Fax: +91 177 262 6779
 E-mail: dir.hfri@icfre.org
 Website: www.hfri.icfre.gov.in

Institute of Forest Genetics and Tree Breeding, Coimbatore
 PO Box No. 1061, HPO R. S. Puram
 Coimbatore 641002
 Tel: +91 422 243 1540
 E-mail: dir.ifgtb@icfre.org
 Website: www.ifgtb.icfre.gov.in

Institute of Forest Productivity, Ranchi
 AT & PO Lalgulwa (Via Pika Nagari)
 Ranchi 835303
 Jharkhand
 Tel: +91 651 294 8505
 E-mail: dir.ipf@icfre.org
 Website: www.ifpranchi.org

Institute of Wood Science and Technology, Bangalore
 PO Maleswaram
 Bangalore 560003
 Karnataka
 Tel: +91 651 294 8505
 E-mail: dir.iwst@icfre.org
 Website: <http://iwst.icfre.gov.in>

Rain Forest Research Institute, Jorhat
 Jorhat, Assam
 Tel: +91 376 235 0273
 E-mail: dir.rfri@icfre.org
 Website: www.ifri.icfre.gov.in

Tropical Forest Research Institute, Jabalpur
 PO: R.F.R.C., Mandla Road
 Jabalpur (M.P.) – 482 021
 Tel: +91 761 284 0483
 Fax: +91 761 284 0484
 E-mail: dir.tfri@icfre.org
 Website: www.tfri.res.in

Centre for Social Forestry and Eco-rehabilitation, Allahabad
 337 Ngoth Kothi, Ashoknagar
 Allahabad 211001, U. P.
 Tel: +91 532 244 0797
 E-mail: head.csfer@icfre.org

Forest Research Centre
 PO Box No. 2129
 Secunderabad 500003
 Andhra Pradesh
 Tel: +91 40 2309 5921
 E-mail: head.frc@icfre.org
 Website: www.frc.icfre.org

Centre for Forestry Research and Human Resource Development
 PO Poama
 Kundankala
 Chhindwara 480001 M. P.
 Tel: +91 7162 282444
 E-mail: head_cfrhd@icfre.org
 Website: <http://chhindwara.nic.in/TFRI/cfrhd.htm>

Indian Institute of Forest Management
 Nehrunagar
 Bhopal, Madhya Pradesh 462003
 Tel: +91 755 277 5998
 E-mail: director@iifm.ac.in
 Website: www.iifm.ac.in

Indian Institute of Wildlife
 Post Box #18, Chandrabani
 Dehradun – 248001
 Uttarakhand
 Tel: +91 135 264 0111 – 15
 Fax: +91 135 264 0117
 E-mail: wii@wii.gov.in
 Website: www.wii.gov.in

Forest Survey of India
 Kaulagarh Road
 PO IPE Dehradun – 248195
 Uttarakhand
 Tel: +91 135 275 6139
 Website: www.fsi.nic.in

Indian Plywood Industries Research and Training Institute
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 Yeshwanthpur
 Bangalore – 560022
 Karnataka
 Tel: +91 80 2839 4341
 Fax: +91 80 2839 6361
 E-mail: dir.ipirti@gov.in
 Website: www.ipirti.gov.in

Kerala Forest Research Institute
 Peechi PO, Thrissur District
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 E-mail: director@kfri.org
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Gujarat Forest Research Institute, Rajpipla
 393145, Gujarat
 Tel: +91 2640 20011
 Fax: +91 2640 20259

UNIVERSITIES/FORREST DEPARTMENTS

H.N.B. Garhwal University Faculty of Agriculture, Department of Forestry
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 246174
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 Fax: +91 1388 56529

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 Coimbatore-641 003, Tamil Nadu
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 Fax: +91 422 243 1672
 E-mail (Dean of Forestry):
deanforntp@tnau.ac.in

Dr Y.S. Parmar University of Horticulture & Forestry
 Solan-173 230, Himachal Pradesh
 Tel: +91 1792 252363
 Fax: +91 1792 252242
 E-mail: vc@yvspuniversity.ac.in

Birsa Agricultural University
 Ranchi-834 006 (Jharkhand)
 Tel: +91 651 245 0500
 Fax: +91 651 245 1139
 E-mail (Dean of Forestry):
deanftybau@yahoo.com /
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Maharana Pratap University of Agriculture & Technology
 Udaipur – 313 001
 Rajasthan
 Tel: +91 294 247 1101
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deanchf@sancharnet.in

**Guru Ghasidas University**

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Fax: +91 7752 260288

Orissa University of Agriculture & Technology

Bhubneshwar – 751 003
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Tel: +91 674 239 7766
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CSK Himachal Pradesh Krishi Vishwavidyalaya

Palampur – 176 062
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Tel/fax: +91 1894 230465

Kerala Agricultural University

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Kerala
Tel: +91 487 237 1928 / 0034
Fax: +91 487 237 0019 (Mob)-
09447071928
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Sher-E-Kashmir University of Agriculture & Technology

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CS Azad University of Agriculture & Technology

Kanpur-208 002 (UP)
Tel: +91 512 253 4155
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Punjab Agricultural University

Ludhiana-141 004 (Pb.)
Tel: +91 161 240 1794 / 1961-79 Ext.
205 / 206
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Central Agricultural University,

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Kumaun University,

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Uttarakhand
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forestry@hau.ernet.in

HNB Garhwal University

Srinagar-246 174 (Uttarakhand)
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nptfd@yahoo.com

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Navsari Agricultural University

Navsari – 396450
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Fax: +91 2637 282145

JAMAICA**NATIONAL FOREST SERVICE****Forestry Department**

Ministry of Agriculture
173 Constant Spring Road
Kingston 8
Fax: +1 876 924-2626
E-mail: forestrydepartment@forestry.gov.jm
Website: www.forestry.gov.jm

National Environment & Planning Agency (NEPA)

John McIntosh Building
10 Caledonia Avenue
Kingston 5
Tel: +1 876 754 7540
Fax: +1 876 754 7595-6
E-mail: pubed@nepa.gov.jm
Website: www.nrca.org

RESEARCH INSTITUTIONS**Environmental Management Unit (EMU)**

Department of Geography & Geology

University of the West Indies

E-mail: emu@uwimona.edu.jm
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The Institute of Jamaica

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Kingston
Tel: +1 876 922 0620 – 6
Fax: +1 876 922 1147
E-mail: ioj.jam@mail.infochan.com
Website:
www.instituteofjamaica.org.jm/

Unit for Disaster Studies (UDS)

Department of Geography & Geology
University of the West Indies
Website: www.mona.uwi.edu/uds/index.html

TRAINING CENTRES**College of Agriculture, Science & Education (CASE)**

Passley Gardens
PO Box 170
Port Antonio
Portland
Tel: +1 876 993 5436 – 8
Fax: +1 876 993 5546
Website: www.case.edu.jm/

Knox Community College

Spalding Post Office, Box 52
Tel: +1 876 987 8056 / 8049
Fax: +1 876 987 8048
E-mail:
knoxcollege@cwjamaica.com
Website:
www.knoxcommunitycollege.edu.jm/

Northern Caribbean College

Mandeville
Manchester
Tel: +1 876 962 2204
E-mail: info@ncu.edu.jm
Website: www.ncu.edu.jm

College of Natural & Applied Sciences

Northern Caribbean College
Tel: +1 876 523 2063
E-mail: cnas@ncu.edu.jm
Website: <http://cnas.ncu.edu.jm>

University of Technology

237 Old Hope Road
Kingston 6
Tel: +1 876 927 1680
Fax: +1 876 977 4388
Website:
www.utech.edu.jm/index.htm


School of Building & Land Management (SBLM)

Tel: +1 876 927 1613 ext. 2333
E-mail: athomas@utech.edu.jm
Website: www.utech.edu.jm/Faculties/Built/SBLM

The University of the West Indies (UWI)

Mona Campus
Kingston 7
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Fax: +1 876 927 0997
Website: www.mona.uwi.edu

Environment Watch Organisation (EWO)

PO Box 815
Montego Bay
St James
Tel/fax: +1 876 940 2149
E-mail: edob@toj.com

ICT4D Jamaica

6b Oxford Road
Kingston 10
Tel: +1 876 946 2998 / 2999
Fax: +1 876 978 3579
E-mail: info@ict4djamaica.org
Website: www.ict4djamaica.org

International School of Jamaica

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Saint Mary
Tel: +1 876 725 0185 / 0060
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KENYA
NATIONAL FOREST SERVICE

Forest Department
PO Box 30513
Nairobi
Website: www.environment.go.ke

RESEARCH
Kenya Agricultural Research Institute (KARI)

(Agroforestry)
PO Box 57811
00200 Nairobi
E-mail: resource.centre@kari.org
Website: www.kari.org

Kenya Forestry Research Institute (KEFRI)

(Forest products and resources)
PO Box 30241
00200 Nairobi
Website: www.kefri.org/natural.htm

Kenya Medical Research Institute (KEMRI)

(Traditional medicine and drug research)
PO Box 54840
Nairobi
E-mail: kemrilib@ken.healthnet.org
Website: www.kemri.org

ACADEMIC/ TRAINING
**Kenyatta University (KU)
School of Environmental & Human Sciences**

PO Box 43844
00100 Nairobi
Website: www.ku.ac.ke/academic

Egerton University

Faculty of Environmental Studies & Natural Resources
PO Box 536
Njoro
E-mail: ferd@egerton.ac.ke
Website: www.egerton.ac.ke/academic/ferd/

Jomo Kenyatta University of Agriculture & Technology (JKUAT)

Department of Botany
PO Box 62000
00200 Nairobi.
Website: www.jkuat.ac.ke/f_science_botany.php

Maseno University

Department of Botany
PO Box 333
Maseno
E-mail: baps@maseno.ac.ke

Moi University

Department of Forestry & Wood Science
PO Box 1125
30100 Eldoret
Website: www.mu.ac.ke/academic/school/nrm/

Londiani Forestry College

PO Box 8
Londiani

Baraka Agricultural College

PO Box 52
Molo – 20106
E-mail: baraka@africaonline.co.ke

KIRIBATI
NATIONAL FOREST SERVICE

Agroforestry Section of the Ministry of Natural Resource Development and Ministry of Environment & Social Development. Both government

bodies are responsible for reforestation, conservation and education programmes for trees and forests although the latter focuses mainly on conservation and management activities.

LESOTHO
NATIONAL FOREST SERVICE
**Director of Forestry
Ministry of Forestry & Land Reclamation**

PO Box 92
Thaba – Bosiu, Industrial Area
Maseru – 100
Tel: +266 22 312826 / 323600
E-mail: forestrydepartment@leo.co.ls
Website: www.lesotho.gov.ls/mnforestry.htm

MALAWI
NATIONAL FOREST SERVICE

The Ministry of Mines, Natural Resources & Environment
Environmental Affairs Department
Private Bag 350
Lilongwe 3

NATIONAL RESEARCH INSTITUTION
National Herbarium & Botanical Gardens of Malawi (NHBGM)

PO Box 528
Zomba
Tel: +265 1 527783 / 524108
E-mail: nhbmg@sdp.org.mw

**UNIVERSITY FACULTIES/
DEPARTMENTS**
The University of Malawi Bunda College of Agriculture

The College Registrar
Bunda College of Agriculture
PO Box 219
Lilongwe

MALAYSIA
NATIONAL FOREST SERVICE
**Ministry of Natural Resources & Environment Malaysia
Forestry Development Division**

Wisma Sumber Asli
No. 25, Persiaran Perdana, Presint 4
62574 Putrajaya
Tel: +60 3 8886 1111
Fax: +60 3 8889 2672
Website: www.nre.gov.my

**Ministry of Plantation Industries & Commodities Malaysia
Timber, Tobacco & Kenaf Industries Development Division**

No. 15, Persiaran Perdana, Presint 2
62574 Putrajaya
Tel: +60 3 8880 3300
Fax: +60 3 8880 3441
Website: www.kppk.gov.my

Forestry Department Peninsular Malaysia

Jalan Sultan Salahuddin
50660 Kuala Lumpur
Tel: +60 3 2616 4488
Fax: +60 3 2692 5657
Website: www.forestry.gov.my

STATE FORESTRY SERVICES
Johor State Forestry Department

Level 2, Bangunan Sultan Ibrahim
Jalan Bukit Timbalan
80000 Johor Bahru
Johor
Tel: +60 7 224 3566
Fax: +60 7 224 3840

Kedah State Forestry Department

8th Floor, Bangunan Sultan Abdul Halim
Jalan Sultan Badlishah
05000 Alor Setar
Kedah
Tel: +60 4 733 3844
Fax: +60 4 731 0610

Kelantan State Forestry Department

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Kota Darul Naim
15503 Kota Bharu
Kelantan
Tel: +60 9 748 2140
Fax: +60 9 744 5675

Negeri Sembilan/Melaka State Forestry Department

Block C, 4th Floor
Wisma Negeri
70503 Seremban
Negeri Sembilan
Tel: +60 6 765 9849
Fax: +60 6 762 3711

Pahang State Forestry Department

5th Floor, Kompleks Tun Razak
Bandar Kuantan Mahkota
25990 Kuantan
Pahang
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Fax: +60 9 573 3355

**Perak State Forestry Department**

Jalan Panglima Bukit Gantang
30000 Ipoh

Perak

Tel: +60 5 255 0020
Fax: +60 5 255 3644

Perlis State Forestry Department

KM 2, Jalan Kaki Bukit
01000 Kangar
Perlis

Tel: +60 4 976 5966
Fax: +60 4 976 7901

Pulau Pinang State Forestry Department

20th Floor, Menara KOMTAR
10000 Pulau Pinang
Tel: +60 4 650 5250
Fax: +60 4 263 6335

Selangor State Forestry Department

3rd Floor, Podium Utara
Bangunan Sultan Salahuddin Abdul
Aziz Shah
40660 Shah Alam
Selangor
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Fax: +60 3 5510 2358

Terengganu State Forestry Department

8th Floor, Wisma Negeri
20200 Kuala Terengganu
Terengganu
Tel: +60 9 622 2444
Fax: +60 9 623 6552

Sabah Forestry Department

KM 10, Labuk Road
PO Box 311
90000 Sandakan
Sabah
Tel: +60 89 660811
Fax: +60 89 669170
Website: www.forest.sabah.gov.my

Sarawak Forest Department

Bangunan Wisma Sumber Asli
Jalan Stadium, Petra Jaya
93660 Kuching
Sarawak
Tel: +60 82 442180
Fax: +60 82 441377
Website:
www.forestry.sarawak.gov.my

NATIONAL RESEARCH INSTITUTION**Forest Research Institute Malaysia (FRIM)**

52109 Kepong
Selangor

Tel: +60 3 6279 7000

Fax: +60 3 6273 1314

Website: www.frim.gov.my

UNIVERSITY FACULTIES/ DEPARTMENTS**University Putra Malaysia (UPM)**

Faculty of Forestry
43400 UPM Serdang
Selangor

Tel: +60 3 8946 7171
Fax: +60 3 8943 2514

Website: www.forr.upm.edu.my

MALDIVES**NATIONAL FOREST SERVICE****Deputy Minister**

Agriculture & Forestry Division
Ministry of Fisheries, Agriculture & Marine Resources

Gaazee Building, Ameer Ahmed
Magu,
Malé
Tel: +960 322625 / 321239
Fax: +960 321168 / 326558
E-mail: it@fishagri.gov.mv
Website: www.fishagri.gov.mv

MALTA**NATIONAL FOREST SERVICE**

Malta does not have a forest service but the Ministry for Rural Affairs & the Environment is responsible for afforestation and horticulture.

Ministry for Rural Affairs & the Environment

Barriera Wharf
Valletta – CMR 02
E-mail: info.mrae@gov.mt
Website: www.mrae.gov.mt

MAURITIUS**NATIONAL FOREST SERVICE**

Forestry Service of Mauritius
Ministry of Agriculture & Natural Resources

Botanical Garden St
PO Box 445
Curepipe
Tel: +230 211 0554
Fax: +230 212 4427

E-mail: npcs.agr@intnet.mu

Website: www.gov.mu/portal/sites/moasite/

MOZAMBIQUE**NATIONAL FOREST SERVICE****National Directorate of Lands & Forestry**

Ministry of Agriculture
Avenue Samora Machel
Government Building No.1, 6th floor
Maputo
Tel: +258 21 312072
Fax: +258 21 421804
Website: www.dnffb.mz

UNIVERSITY FACULTIES/ DEPARTMENTS**Faculdade de Agronomia e Engenharia Florestal**

Av. J. Nyerere/Campus 3453
Tel: +258 21 492142 (Director)
Fax: +258 21 492176
Website: www.agronomia.uem.mz

NAMIBIA**NATIONAL FOREST SERVICE****Ministry of Agriculture, Water & Forestry**

Directorate of Forestry
Government Office Park
Luther Street, 3rd floor, Room 303
(Private Bag 13184)
Windhoek
Tel: +264 61 221478
Fax: +264 61 222830

NATIONAL RESEARCH AND TRAINING INSTITUTION**National Botanical Research Institute**

PO Box 13184
Windhoek
Tel: +264 61 202 9111
Website: www.nbri.org.na

UNIVERSITY FACULTIES/ DEPARTMENTS**The University of Namibia**

Faculty of Forestry
PO Box
Windhoek

NAURU**NATIONAL FOREST SERVICE**

Governmental responsibility for natural resources lies with the Department of Island Development and Industry, thus responsibility for forestry is under its purview.

NEW ZEALAND**NATIONAL FOREST SERVICE****Ministry of Agriculture & Forestry (MAF)**

Pastoral House, 25 The Terrace
PO Box 2526
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Tel: +64 29 894 0707
Fax: +64 4 894 0742
Website: www.maf.govt.nz

NATIONAL RESEARCH INSTITUTION**Scion (formerly NZ Forest Research Institute Limited)**

Rotorua
Website: www.scionresearch.com

UNIVERSITY FACULTIES/ DEPARTMENTS**University of Canterbury School of Forestry**

Christchurch
Website: www.fore.canterbury.ac.nz

Forest Industry Training & Education Council (FITEC)

Auckland
Website: www.fitec.org.nz

NIGERIA**NATIONAL FOREST SERVICE****The Federal Department of Forestry (FDF)**

Block 10, Oran Street, Wuse, Zone 1
Abuja

NATIONAL RESEARCH AND TRAINING INSTITUTIONS**Forestry Research Institute of Nigeria (FRIN)**

PMB 5054, Jericho
Ibadan

Oyo State
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Website: www.frin.gov.ng

Federal College of Forestry

PMB 5054, Ibadan,
Nigeria

Federal College of Forestry

PMB 2019, Jos


**UNIVERSITY FACULTIES/
DEPARTMENTS**

University of Ibadan
Department of Forestry Resources
Management
Ibadan
Website: <http://ui.edu.ng/?q=forestry>

**The Federal University of
Technology**
**Department of Forestry & Wood
Technology**
PMB 704, Akure
Ondo State
Website: www.futa-forestry.org

Uthman Fodio University
Sokoto

Federal University of Agriculture
Abeokuta
Website: www.unaab.edu.ng

Federal University of Agriculture
Umudike
Website: <http://michaelokparaunivesi.tripod.com>

The University of Benin
Website: www.uniben.edu

PAKISTAN
NATIONAL FOREST SERVICE

Inspector General of Forests
Ministry of Environment
Government of Pakistan
CDA Block-4, Old Naval Head
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Fax: +92 51 924 5598
Website:
www.202.83.164.26/wps/portal/Moe

Secretary Environment
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Govt of Pakistan
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Tel: +92 51 922 4579
Website:
<http://202.83.164.26/wps/portal/Moe>

Secretary Environment
Department of Environment
Govt of North West Frontier
Province
Khyber Road
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Tel: +92 91 921 0333
Website: www.nwfp.gov.pk/Environment/Department/index.php

Chief Conservator of Forests
North West Frontier Province Forest
Department
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Director
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Director
Human Resource Development
Directorate
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**UNIVERSITY FACULTIES/
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Wildlife Management**
380 University Avenue
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NATIONAL FOREST SERVICE

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SINGAPORE
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The Ministry of Forestry includes a Research & Development section.

SOUTH AFRICA

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Natural Resources & Environment

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Department of Environmental Affairs & Tourism

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Forestry & Agriculture Biotechnology Institute

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Pretoria 0002

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Forest Industries Education and Training Authority

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Rivonia 2128

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Institute for Commercial Forestry Research

PO Box 100281

SCOTTSVILLE 3209

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Faculty of Agricultural & Forestry

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ST KITTS & NEVIS

NATIONAL FOREST SERVICE

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ST LUCIA

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SWAZILAND

NATIONAL FOREST SERVICE

The unit responsible for forestry in Swaziland is the Forestry Section of the Department of Agriculture & Extension within the Ministry of Agriculture & Cooperatives; website: www.gov.sz/home.

Research in the plantations is carried out by the private sector, Mondri and Sappi, from their research centres in South Africa.

Limited research on indigenous forest and woodland species is carried out by staff of the University of Swaziland in Mbabane.

TANZANIA (UNITED REPUBLIC OF)

NATIONAL FOREST SERVICE

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Fax: +1 868 662 4414
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Website: <http://sta.uwi.edu/herbarium/>

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Website: www.angelfire.com/zine/eciaf/

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Website: <http://usc.edu.tt>

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TUVALU

NATIONAL FOREST SERVICE

Responsibility for forestry in Tuvalu rests with the Forestry Division of the Department of Agriculture, itself a part of the Ministry of Natural Resources & Environment (MNRE). Also within the MNRE is an Environment Unit, which focuses on the environment in general.

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Provincial Forest Extension Officer
Eastern Province
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Provincial Forest Extension Officer
Western Province
Department of Forestry
PO Box Mongu

Provincial Forest Extension Officer
North-Western Province
Department of Forestry
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Provincial Forest Extension Officer
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Department of Forestry
PO Box Choma

Provincial Forest Extension Officer
Northern Province
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Provincial Forest Extension Officer
Luapula Province
Department of Forestry
PO Box Mansa

Provincial Forest Extension Officer
Central Province
Department of Forestry
PO Box Kabwe

Provincial Forest Extension Officer
Copperbelt Province
Department of Forestry
PO Box Ndola

Managing forests for the future



The Food and Agriculture Organization of the United Nations (FAO) counts sustainable management of the world's forests as one of its strategic goals. The FAO Forestry Department works to balance social, economic and environmental objectives so that present generations can reap the benefits of the Earth's forest resources while preserving them to meet the needs of future generations. FAO serves as a neutral forum for policy dialogue, as a reliable source of information on forests and trees and as a provider of expert technical assistance and advice to help countries develop and implement effective national forest programmes.

Sharing ideas, creating partnerships

FAO works in partnership with governments, international organizations and agencies, non-governmental groups, the private sector, communities and individuals. FAO works with its member countries through its headquarters in Rome; through a network of decentralized but closely coordinated offices at country, subregional and regional levels; and through field projects.

FAO's Committee on Forestry brings together decision-makers from national forest services, international organizations, the private sector and civil society to examine emerging international forestry issues and shape the Organization's programme of work. Six regional forestry commissions meet to address regional issues. There is also an FAO Advisory Committee on Paper and Wood Products that brings together leaders from the private sector to address global issues and to provide advice to FAO.

The Collaborative Partnership on Forests, a group of 14 leading international organizations concerned with the world's forests, is chaired by FAO. The Organization also hosts the Mountain Partnership, an international consortium concerned with livelihoods of mountain people and the conservation of mountain ecosystems, and the National Forest Programme Facility, an innovative approach to forest development in developing countries that promotes participatory processes and effective national policies that integrate forestry with other key sectors.

Sound information for sound forest policy

FAO is both a global clearinghouse for information on forests and forest resources and a facilitator that helps build countries' capacity to provide their own national forest data. In collaboration with member countries, FAO carries out periodic global assessments of forest resources, which are made available through reports, publications and the FAO Web site. The Global Forest Resources Assessment provides the most comprehensive reporting on forests worldwide, at five year intervals.

FAO, in collaboration with member countries, undertakes regional forest sector outlook studies to examine the direction of development of forests and forestry. Such studies help to identify the policy, programme and investment options that can enhance the forest sector's contribution to sustainable development.



FAO/FO-6871/J. BALL



FAO/FO-6887/E.B. SUBIYANTORO



FAO/22115/R. MESSORI

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Every two years, FAO publishes *State of the World's Forests*, a major report covering current and emerging issues facing the forest sector. *Unasylva*, FAO's peer-reviewed journal on forestry, has been published in English, French and Spanish on a regular basis since 1947 – the longest-running multilingual forestry journal in the world.

Knowledge for better forest management

FAO provides technical assistance and advice to help countries develop and improve national forest programmes, plan and carry out forest activities, and implement effective forest legislation. Through training and workshops, for example, FAO helps develop the institutional capacity for policy formulation at the national level. More than 120 countries have benefited from the Organization's forestry guidance over the last 20 years.

FAO develops guidelines for forest management through broad consultative processes with stakeholders in all regions of the world. Existing guidelines cover fire management, responsible management of planted forests and best practices in forest harvesting and utilization.

Recognizing the harmful effects of climate change on forest ecosystems and resources, and the role of forests in mitigating climate change by storing carbon in their biomass, FAO is intensifying efforts in this area. In addition to providing technical expertise to international climate change negotiations, FAO provides advice to countries on how they can contribute to mitigation of climate change.

Forests are the world's most important source of renewable bioenergy. FAO provides assistance to member countries that are facing critical policy decisions in this important area. FAO works with countries to develop systems for harnessing energy without depleting tree resources.

The Organization also helps countries develop strategies to control pests and diseases, in addition to providing emergency assistance to safeguard forest health.

Fire affects millions of hectares of forest land every year. FAO works with countries to adopt community-based approaches, strengthen fire-related policy and legislation, and promote international cooperation in fire management.

FAO's varied work programme also addresses, among others, watershed management, forest biodiversity, arid zone forestry, forest finance, forest tenure and appropriate forest industry development.

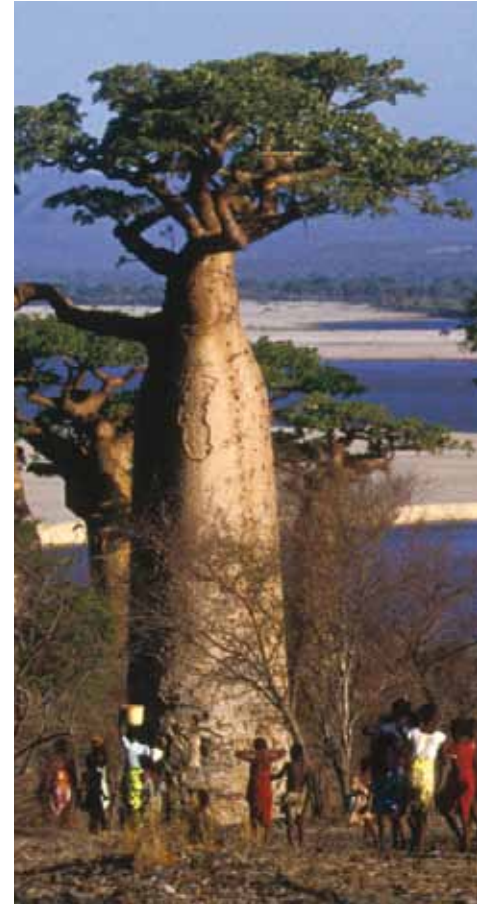
The livelihoods of hundreds of millions of rural people depend on forests and trees. People who benefit from forests are more likely to conserve them if they have a say in how they are managed. FAO promotes participatory forestry and community-based enterprise development to enable communities to balance their economic needs with the conservation of forest resources for the future.



FAO/FO-0662/S. BRAATZ



FAO/FO-6079/C. JEKKE



FAO/23510/A. MIHICH

Commonwealth Forests 2010

Commonwealth Forests 2010 is a thoroughly revised and updated edition of a book that was originally published in 2007.

Commonwealth Forests 2010 provides a complete picture of the state of forests and forestry in the Commonwealth. It covers not only the extent of forest cover, rates of forest loss and the creation of planted forests in the 54 countries of the Commonwealth but also sustainable forest management, benefits from the forest such as tangible products like timber and firewood as well as other benefits that are rarely quantified and are often taken for granted such as fruits, fodder and shelter, and the conservation of biological diversity. There are also chapters on forest research, the education of future generations of foresters, administration of Commonwealth forest services and the role of Commonwealth countries in the international dialogue on forests – especially in relation to forests and climate change. The final chapter on Challenges and Opportunities identifies the main issues facing Commonwealth foresters, planners and policymakers and describes the opportunities that exist for collaboration in addressing them.

The figures on which the text is based are in annexes, which also include details of the forest authorities for each Commonwealth country.



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