GLOBAL FOREST RESOURCES ASSESSMENT 2010

COUNTRY REPORT

BAHAMAS



The Forest Resources Assessment Programme

Sustainably managed forests have multiple environmental and socio-economic functions important at the global, national and local scales, and play a vital part in sustainable development. Reliable and upto-date information on the state of forest resources - not only on area and area change, but also on such variables as growing stock, wood and non-wood products, carbon, protected areas, use of forests for recreation and other services, biological diversity and forests' contribution to national economies - is crucial to support decision-making for policies and programmes in forestry and sustainable development at all levels.

FAO, at the request of its member countries, regularly monitors the world's forests and their management and uses through the Forest Resources Assessment Programme. This country report forms part of the Global Forest Resources Assessment 2010 (FRA 2010).

The reporting framework for FRA 2010 is based on the thematic elements of sustainable forest management acknowledged in intergovernmental forest-related fora and includes variables related to the extent, condition, uses and values of forest resources, as well as the policy, legal and institutional framework related to forests. More information on the FRA 2010 process and the results - including all the country reports - is available on the FRA Web site (www.fao.org/forestry/fra).

The Global Forest Resources Assessment process is coordinated by the Forestry Department at FAO headquarters in Rome. The contact person for matters related to FRA 2010 is:

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The Global Forest Resources Assessment Country Report Series is designed to document and make available the information forming the basis for the FRA reports. The Country Reports have been compiled by officially nominated country correspondents in collaboration with FAO staff. Prior to finalisation, these reports were subject to validation by forestry authorities in the respective countries.

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Report preparation and contact persons

No official report has been received from Bahamas.

This report is the result of a desk study prepared by the FRA secretariat in Rome, which summarizes existing available information using the established format for FRA 2010 country reports.

1 Table T1 – Extent of Forest and Other wooded land

1.1 FRA 2010 Categories and definitions

| Category | Definition | | |
|----------------------------|---|--|--|
| Forest | Land spanning more than 0.5 hectares with trees higher than 5 meters and a | | |
| | canopy cover of more than 10 percent, or trees able to reach these thresholds in | | |
| | situ. It does not include land that is predominantly under agricultural or urban | | |
| | land use. | | |
| Other wooded land | Land not classified as "Forest", spanning more than 0.5 hectares; with trees higher | | |
| | than 5 meters and a canopy cover of 5-10 percent, or trees able to reach these | | |
| | thresholds <i>in situ</i> ; or with a combined cover of shrubs, bushes and trees above 10 | | |
| | percent. It does not include land that is predominantly under agricultural or urban | | |
| | land use. | | |
| Other land | All land that is not classified as "Forest" or "Other wooded land". | | |
| Other land with tree cover | Land classified as "Other land", spanning more than 0.5 hectares with a canopy | | |
| (Subordinated to "Other | cover of more than 10 percent of trees able to reach a height of 5 meters at | | |
| land") | maturity. | | |
| Inland water bodies | Inland water bodies generally include major rivers, lakes and water reservoirs. | | |

1.2 National data

1.2.1 Data sources

| References to sources of information | Quality (H/M/L) | Variable(s) | Year(s) | Additional comments |
|---|--------------------|------------------|---------|--------------------------------------|
| Bacon P.R. 1993. Mangroves in the Lesser Antilles, Jamaica and Trinidad and Tobago. In: Lacerda L.D. 1993. Conservation and sustainable utilization of mangrove forests in Latin America and Africa regions, Part I - Latin America. p. 155 210 Mangrove Ecosystems technical reports ITTO/ISME Project PD114/90 (F). Okinawa, Japan. 272 pp. | H | Mangrove area | 1991 | Based on a ground survey |
| FAOSTAT | Н | Land area | | Secondary data source |
| Russell, C. 2000. Bahamas Country Report: Forestry Outlook Study for the Caribbean. Project GCP/INT, FAO, Rome | Н | Forest area | 1986 | Secondary data source |
| FAO 2001. Validation Sheet Bahamas. FAO Rome | M | Forest area | 2000 | Estimated the area of coppice forest |

1.2.2 Classification and definitions

1986

| National class | Definition |
|---------------------------|----------------------------------|
| Density Class 1 (70-100%) | Forest with 70-100% canopy cover |
| Density Class 2 (50-69%) | Forest with 50-69% canopy cover |
| Density Class3 (11-49%) | Forest with 11-49% canopy cover |
| Density Class 4 (0-10%) | Forest with 0-10% canopy cover |
| Swamp | No definition given |
| Bluehole | No definition given |
| Other | No definition given |

1.2.3 Original data

1986 (Source: Russel, 2000)

| National Classes | Area | Area |
|---------------------------|---------|------------|
| | (acres) | (hectares) |
| Density Class 1 (70-100%) | 154 470 | 62 512 |
| Density Class 2 (50-69%) | 121 022 | 48 976 |
| Density Class3 (11-49%) | 139 381 | 56 406 |
| Density Class 4 (0-10%) | 88 239 | 35 709 |
| Swamp | 11 165 | 4 518 |
| Bluehole | 304 | 123 |
| Other | 423 | 171 |
| Total pine forest | 515 004 | 208 415 |

The areas in acres were converted to hectares by applying a factor of 0.404686

Russell (2000) also notes that the total area of wetlands is 4 28 600 hectares, some of which contains mangroves and that there are areas of coppice hardwood forests which have been harvested in the past for sawlogs. These areas have never been inventoried.

1991 (Source: Bacon, 1993)

Mangrove = 141 957 ha

2000

FRA 2000 estimated the area of coppice forest to be 200 000 ha based on the following assumptions:

"The Coppice Forest was estimated, by taking into consideration the total land area, and subtracting the total area cover by wetland and pine forest. The remaining area (527,539 ha) is a combination of urban areas, agriculture and coppice forest. According to the country general description, it was estimated that at least half of this extension has being used for urban areas and agriculture. The coppice forest was then estimated at 200,000 ha."

1.3 Analysis and processing of national data

1.3.1 Reclassification into FRA 2010 categories

All the pine forests, except density class 4 were classified as forests. Pine forests in density class 4 were classified as Other wooded land.

All mangroves and all coppice forests were reclassified as forests.

The mangrove area of 1991 and the estimated area of coppice forest were added to the pine forest area of 1986

| | Forest (ha) | OWL (ha) |
|--------------------|-------------|----------|
| Pine forest (1986) | 172 705 | 35 709 |
| Coppice forest | 200 000 | |
| Mangroves (1991) | 141 957 | |
| Total | 514 662 | 35 709 |

1.3.2 Calibration

No calibration of forest and other wooded land areas was made. Remaining land area is assumed to be other land.

1.3.3 Estimation and forecasting

As no reliable trend data are available, the same values are reported for all reporting years.

1.4 Data for Table T1

| TD 1 2010 | Area (1000 hectares) | | | | | |
|--------------------------|----------------------|-------|-------|-------|--|--|
| FRA 2010 categories | 1990 | 2000 | 2005 | 2010 | | |
| Forest | 515 | 515 | 515 | 515 | | |
| Other wooded land | 35.7 | 35.7 | 35.7 | 35.7 | | |
| Other land | 450 | 450 | 450 | 450 | | |
| of which with tree cover | n.a. | n.a. | n.a. | n.a. | | |
| Inland water bodies | 387 | 387 | 387 | 387 | | |
| TOTAL | 1 388 | 1 388 | 1 388 | 1 388 | | |

1.5 Comments to Table T1

| Variable / category | Comments related to data, definitions, etc. | Comments on the reported trend |
|----------------------------|--|---|
| Forest | Data are old and partly based on expert estimates. | There are no reliable data to make an accurate forest change estimation, although an increase in forest area is likely due to the closing of banana plantations which return to forests |
| Other wooded land | | |
| Other land | | |
| Other land with tree cover | | |
| Inland water bodies | | |

| Other general comments to the table | | |
|-------------------------------------|--|--|
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| Expected year for completion of ongoing/planned <u>national</u> forest inventory and/or RS survey / mapping | | | |
|---|--|--|--|
| Field inventory | | | |
| Remote sensing survey / mapping | | | |

2 Table T2 – Forest ownership and management rights

2.1 FRA 2010 Categories and definitions

| Category | Definition |
|--|---|
| Public ownership | Forest owned by the State; or administrative units of the public administration; or by institutions or corporations owned by the public |
| Private ownership | administration. Forest owned by individuals, families, communities, private co-operatives, corporations and other business entities, private religious and educational institutions, pension or investment funds, NGOs, nature conservation |
| Individuals (sub-category of Private ownership) | associations and other private institutions. Forest owned by individuals and families. |
| Private business entities and institutions (sub-category of Private ownership) | Forest owned by private corporations, co-operatives, companies and other business entities, as well as private non-profit organizations such as NGOs, nature conservation associations, and private religious and educational institutions, etc. |
| Local communities (sub-category of Private ownership) | Forest owned by a group of individuals belonging to the same community residing within or in the vicinity of a forest area. The community members are co-owners that share exclusive rights and duties, and benefits contribute to the community development. |
| Indigenous / tribal communities (sub-category of Private ownership) | Forest owned by communities of indigenous or tribal people. |
| Other types of ownership | Other kind of ownership arrangements not covered by the categories above. Also includes areas where ownership is unclear or disputed. |
| Categories related to the holder | of management rights of public forest resources |
| Public Administration | The Public Administration (or institutions or corporations owned by the Public Administration) retains management rights and responsibilities within the limits specified by the legislation. |
| Individuals/households | Forest management rights and responsibilities are transferred from the Public Administration to individuals or households through long-term leases or management agreements. |
| Private institutions | Forest management rights and responsibilities are transferred from the Public Administration to corporations, other business entities, private cooperatives, private non-profit institutions and associations, etc., through long-term leases or management agreements. |
| Communities | Forest management rights and responsibilities are transferred from the Public Administration to local communities (including indigenous and tribal communities) through long-term leases or management agreements. |
| Other form of management rights | Forests for which the transfer of management rights does not belong to any of the categories mentioned above. |

2.2 National data

2.2.1 Data sources

| References to sources of information | Quality (H/M/L) | Variable(s) | Year(s) | Additional comments |
|--|--------------------|-------------|---------|---------------------|
| Russell, C. 2000. Bahamas Country Report: Forestry | Н | Ownership | 1986 | Secondary data |
| Outlook Study for the Caribbean. Project GCP/INT, | | | | source |
| FAO, Rome | | | | |

2.2.2 Original data

According to Russell (2000), 80% of the forest is owned by the Government while 20% is privately owned. It is not clear whether the ownership refers to the forest land, to the trees or both.

2.3 Analysis and processing of national data

2.3.1 Estimation and forecasting

The percentages are applied to the forest area as of table T1.

2.4 Data for Table T2

Table 2a - Forest ownership

| FRA 2010 Categories | Forest area (1000 hectares) | | | |
|--|-----------------------------|------|------|--|
| TRA 2010 Categories | 1990 | 2000 | 2005 | |
| Public ownership | 412 | 412 | 412 | |
| Private ownership | 103 | 103 | 103 | |
| of which owned by individuals | | | | |
| of which owned by private business entities and institutions | | | | |
| of which owned by local communities | | | | |
| of which owned by indigenous / tribal communities | | | | |
| Other types of ownership 0 0 | | 0 | | |
| TOTAL | 515 | 515 | 515 | |

Note: If other types of ownership is reported, please specify details in comment to the table.

| Does ownership of trees coincide with ownership of the | Yes | | |
|---|-----|--|--|
| land on which they are situated? | No | | |
| If No above, please describe below how the two differ: | | | |
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Table 2b - Holder of management rights of public forests

| FRA 2010 Categories | Forest a | Forest area (1000 hectares) | | |
|---------------------------------------|----------|-----------------------------|------|--|
| TKA 2010 Categories | 1990 | 2000 | 2005 | |
| Public Administration | | | | |
| Individuals | | | | |
| Private corporations and institutions | | | | |
| Communities | | | | |
| Other | | | | |
| TOTAL | | | | |

2.5 Comments to Table T2

| Comments related to data, definitions, | Comments on the reported trend |
|--|--------------------------------|
| etc. | |
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| Other general comments to the table |
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3 Table T3 – Forest designation and management

No information is available for this reporting table.

4 Table T4 – Forest characteristics

4.1 FRA 2010 Categories and definitions

| Term / category | Definition |
|---|--|
| Naturally regenerated forest | Forest predominantly composed of trees established through natural regeneration. |
| Introduced species | A species, subspecies or lower taxon, occurring <u>outside</u> its natural range (past or present) and dispersal potential (i.e. outside the range it occupies naturally or could occupy without direct or indirect introduction or care by humans). |
| Characteristics categories | |
| Primary forest | Naturally regenerated forest of native species, where there are no clearly visible indications of human activities and the ecological processes are not significantly disturbed. |
| Other naturally regenerated forest | Naturally regenerated forest where there are clearly visible indications of human activities. |
| Other naturally regenerated forest of introduced species (sub-category) | Other naturally regenerated forest where the trees are predominantly of introduced species. |
| Planted forest | Forest predominantly composed of trees established through planting and/or deliberate seeding. |
| Planted forest of introduced species | Planted forest, where the planted/seeded trees are predominantly of |
| (sub-category) | introduced species. |
| Special categories | |
| Rubber plantations | Forest area with rubber tree plantations. |
| Mangroves | Area of forest and other wooded land with mangrove vegetation. |
| Bamboo | Area of forest and other wooded land with predominant bamboo vegetation. |

4.2 National data

4.2.1 Data sources

| References to sources of information | Quality (H/M/L) | Variable(s) | Year(s) | Additional comments |
|---|--------------------|-------------------|---------|---------------------|
| Russell, C. 1998. Bahamas national report on the state of forestry for the period 1996-1997. 20th session of the Latin American and Caribbean Forestry Commission, 10- 14th September 1998. FAO, Rome | Н | Planted forest | 1997 | |
| Bacon P.R. 1993. Mangroves in the Lesser Antilles, | Н | Mangrove | 1991 | Based on a |
| Jamaica and Trinidad and Tobago. <i>In:</i> Lacerda L.D. | | area | | ground survey |
| 1993. Conservation and sustainable utilization of | | | | |
| mangrove forests in Latin America and Africa | | | | |
| regions, Part I - Latin America. p. 155 210 | | | | |
| Mangrove Ecosystems technical reports ITTO/ISME | | | | |
| Project PD114/90 (F). Okinawa, Japan. 272 pp. | | | | |

4.2.2 Original data

There are no planted forests in Bahamas.

The area of mangroves 1991 was 141 957 hectares.

4.3 Analysis and processing of national data

4.3.1 Reclassification into FRA 2010 categories

All forest area is considered to belong to the category "Other naturally regenerated forest".

4.3.2 Estimation and forecasting

As no data are available to support and trend estimates, the same figures have been used for all reporting years.

4.4 Data for Table T4

Table 4a

| EDA 2010 Catagorias | Forest area (1000 hectares) | | | |
|------------------------------------|-----------------------------|------|------|------|
| FRA 2010 Categories | 1990 | 2000 | 2005 | 2010 |
| Primary forest | 0 | 0 | 0 | 0 |
| Other naturally regenerated forest | 515 | 515 | 515 | 515 |
| of which of introduced species | n.a. | n.a. | n.a. | n.a. |
| Planted forest | 0 | 0 | 0 | 0 |
| of which of introduced species | 0 | 0 | 0 | 0 |
| TOTAL | 515 | 515 | 515 | 515 |

Table 4b

| FRA 2010 Categories | Area (1000 hectares) | | | |
|-----------------------------|----------------------|------|------|------|
| FRA 2010 Categories | 1990 | 2000 | 2005 | 2010 |
| Rubber plantations (Forest) | n.a. | n.a. | n.a. | n.a. |
| Mangroves (Forest and OWL) | 142 | 142 | 142 | 142 |
| Bamboo (Forest and OWL) | n.a. | n.a. | n.a. | n.a. |

4.5 Comments to Table T4

| Variable / category | Comments related to data, definitions, etc. | Comments on the reported trend |
|-------------------------------------|---|--------------------------------|
| Primary forest | | |
| Other naturally regenerating forest | | |
| Planted forest | | |
| Rubber plantations | | |
| Mangroves | | |
| Bamboo | | |

| Other general comments to the table |
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5 Table T5 – Forest establishment and reforestation

5.1 FRA 2010 Categories and definitions

| Term | Definition |
|-----------------------------|--|
| Afforestation | Establishment of forest through planting and/or deliberate seeding on |
| | land that, until then, was not classified as forest. |
| Reforestation | Re-establishment of forest through planting and/or deliberate seeding on |
| | land classified as forest. |
| Natural expansion of forest | Expansion of forests through natural succession on land that, until then, was under another land use (e.g. forest succession on land previously used for agriculture). |

5.2 National data

5.2.1 Original data

There are no planted forests in Bahamas, and hence no afforestation or reforestation activities have been taking place.

5.3 Data for Table T5

| FRA 2010 Categories | | forest establ nectares/yean | | of which of introduced species ¹⁾ (hectares/year) | | |
|--------------------------------------|------|--------------------------------|------|--|------|------|
| | 1990 | 2000 | 2005 | 1990 | 2000 | 2005 |
| Afforestation | 0 | 0 | 0 | 0 | 0 | 0 |
| Reforestation | 0 | 0 | 0 | 0 | 0 | 0 |
| of which on areas previously planted | 0 | 0 | 0 | 0 | 0 | 0 |
| Natural expansion of forest | n.d. | n.d. | n.d. | n.d. | n.d. | |

Note: The figures for the reporting years refer to the averages for the 5-year periods 1988-1992, 1998-2002 and 2003-2007 respectively.

5.4 Comments to Table T5

| Variable / | Comments related to data, definitions, | Comments on the reported trend |
|-------------------|--|--------------------------------|
| category | etc. | |
| Afforestation | | |
| Reforestation | | |
| Natural expansion | | |
| of forest | | |

| Other general comments to the table |
|-------------------------------------|
| |
| |

6 Table T6 - Growing stock

6.1 FRA 2010 Categories and definitions

| Category | Definition |
|-------------------------------------|--|
| Growing stock | Volume over bark of all living trees more than X cm in diameter at breast height (or above buttress if these are higher). Includes the stem from ground level or stump height up to a top diameter of Y cm, and may also include branches to a minimum diameter of W cm. |
| Growing stock of commercial species | Growing stock (see def. above) of commercial species. |

6.2 National data

6.2.1 Data sources

| References to sources of information | Quality (H/M/L) | Variable(s) | Year(s) | Additional comments |
|--|--------------------|---|---------|-----------------------|
| Russell, C. 2000. Bahamas Country Report: Forestry Outlook Study for the Caribbean. Project GCP/INT, FAO, Rome | Н | Standing volume of pine forests that have been inventoried, Pine forest | 1986 | Secondary data source |
| | | area | | |

6.2.2 Original data

| Area of pine inventoried (acres) | Standing volume (1000 ft3) |
|----------------------------------|----------------------------|
| 362 783 | 165 068 |

Converting to hectares (using 1 acre = 0.404686 ha) and m3 (using 1ft3 = 0.02832 m3) gives the results in the table below:

| Area of pine inventoried (ha) | standing volume (1000 m3) |
|-------------------------------|---------------------------|
| 146 813 | 4 674.7 |

This gives an average volume of 31.84 m3/ha for pine forest.

There are no other data available for the other forest types. The reporting table has therefore been left without any data.

7 Table T7 - Biomass stock

No data are available for this reporting table.

8 Table T8 – Carbon stock

No data are available for this reporting table.

9 Table T9 - Forest fires

No data are available for this reporting table.

10 Table T10 – Other disturbances affecting forest health and vitality

No data are available for this reporting table.

11 Table T11 – Wood removals and value of removals

11.1 FRA 2010 Categories and definitions

| Category | Definition |
|----------------------|--|
| Industrial roundwood | The wood removed (volume of roundwood over bark) for production of goods and |
| removals | services other than energy production (woodfuel). |
| Woodfuel removals | The wood removed for energy production purposes, regardless whether for |
| | industrial, commercial or domestic use. |

11.2 National data

11.2.1 Data sources

| References to sources of information | Quality (H/M/L) | Variable(s) | Year(s) | Additional comments |
|--------------------------------------|--------------------|-------------|---------------|-----------------------|
| FAOSTAT (2009) | M | Removals | 1988- 2007 | Secondary data source |

11.2.2 Original data

| Year | Industrial roundwood | Year | Industrial roundwood | Year | Industrial roundwood |
|-----------|----------------------|-----------|----------------------|-----------|----------------------|
| 1988 | 115 000 | 1998 | 17 000 | 2003 | 17 000 |
| 1989 | 115 000 | 1999 | 17 000 | 2004 | 17 000 |
| 1990 | 115 000 | 2000 | 17 000 | 2005 | 17 000 |
| 1991 | 115 000 | 2001 | 17 000 | 2006 | 17 000 |
| 1992 | 115 000 | 2002 | 17 000 | 2007 | 17 000 |
| 1988-1992 | 115 000 | 1998-2002 | 17 000 | 2003-2007 | 17 000 |

FAOSTAT does not report any data on woodfuel until year 2007. It is therefore reported as "not available" for all years.

11.3 Analysis and processing of national data

A bark factor of 1.15 was multiplied by the 5-year averages in the table above.

11.4 Data for Table T11

| FRA 2010 Category | Indus | trial round removals | wood | Woodfuel removals | | |
|---|-------|-------------------------|------|-------------------|------|------|
| TRA 2010 Category | 1990 | 2000 | 2005 | 1990 | 2000 | 2005 |
| Total volume (1000 m ³ o.b.) | 132 | 19.5 | 19.5 | n.a. | n.a. | n.a. |
| of which from forest | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Unit value (local currency / m ³ o.b.) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total value (1000 local currency) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |

Note: The figures for the reporting years refer to the averages of annually affected areas for the 5-year periods 1988-1992, 1998-2002 and 2003-2007 respectively.

| | 1990 | 2000 | 2005 |
|------------------------|------|------|------|
| Name of local currency | | | |

11.5 Comments to Table T11

| Variable / | Comments related to data, definitions, | Comments on the reported trend |
|-----------------|--|--------------------------------|
| category | etc. | |
| Total volume of | | |
| industrial | | |
| roundwood | | |
| removals | | |
| Total volume of | | |
| woodfuel | | |
| removals | | |
| | | |
| Unit value | | |
| | | |
| | | |
| | | |
| Total value | | |
| | | |
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| | | |

| Other general comments to the table |
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12 Table T12 – Non-wood forest products removals and value of removals

No data are available for this reporting table.

13 Table T13 - Employment

No data are available for this reporting table.

14 Table T14 - Policy and legal framework

No data are available for this reporting table.

15 Table T15 – Institutional framework

No data are available for this reporting table.

16 Table T16 – Education and research

No data are available for this reporting table.

17 Table T17 – Public revenue collection and expenditure

No data are available for this reporting table.