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ASSESSMENT**

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## 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 up-to-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 2005 (FRA 2005), which is the most comprehensive assessment to date. More than 800 people have been involved, including 172 national correspondents and their colleagues, an Advisory Group, international experts, FAO staff, consultants and volunteers. Information has been collated from 229 countries and territories for three points in time: 1990, 2000 and 2005.

The reporting framework for FRA 2005 is based on the thematic elements of sustainable forest management acknowledged in intergovernmental forest-related fora and includes more than 40 variables related to the extent, condition, uses and values of forest resources. More information on the FRA 2005 process and the results - including all the country reports - is available on the FRA 2005 Web site ([www.fao.org/forestry/fra2005](http://www.fao.org/forestry/fra2005)).

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The Global Forest Resources Assessment 2005 Country Report Series is designed to document and make available the information forming the basis for the FRA 2005 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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## Abbreviations

FRA-2000	-	Global Forest Resources Assessment 2000
FRA-2005	-	Global Forest Resources Assessment 2005
FAO	-	Food and Agriculture Organization of the United Nations
UNECE	-	UN Economic Commission for Europe
RB	-	Republic of Belarus
MF	-	Ministry for Forestry of the Republic of Belarus
SFF	-	State Forest Fund
OWL	-	Other wooded land
OLTC	-	Other land with tree cover
BEF	-	Biomass Expansion Factor
DW	-	Density of Wood
H	-	High quality (of data / information)
M	-	Medium quality
L	-	Low quality
ID	-	Insufficient Data
N/A	-	Not applicable
NDA	-	No Data Available

## Contents

<b>1</b>	<b>TABLE T1 – EXTENT OF FOREST AND OTHER WOODED LAND .....</b>	<b>7</b>
1.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	7
1.2	NATIONAL DATA.....	7
1.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	8
1.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	9
1.5	DATA FOR NATIONAL REPORTING TABLE T1 .....	9
1.6	COMMENTS TO NATIONAL REPORTING TABLE T1 .....	10
<b>2</b>	<b>TABLE T2 – OWNERSHIP OF FOREST AND OTHER WOODED LAND.....</b>	<b>11</b>
2.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	11
2.2	NATIONAL DATA.....	11
2.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	12
2.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	12
2.5	DATA FOR NATIONAL REPORTING TABLE T2 .....	12
2.6	COMMENTS TO NATIONAL REPORTING TABLE T2 .....	12
<b>3</b>	<b>TABLE T3 – DESIGNATED FUNCTION OF FOREST AND OTHER WOODED LAND .....</b>	<b>13</b>
3.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	13
3.2	NATIONAL DATA.....	13
3.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	14
3.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	15
3.5	DATA FOR NATIONAL REPORTING TABLE T3 .....	15
3.6	COMMENTS TO NATIONAL REPORTING TABLE T3 .....	15
<b>4</b>	<b>TABLE T4 – CHARACTERISTICS OF FOREST AND OTHER WOODED LAND .....</b>	<b>16</b>
4.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	16
4.2	NATIONAL DATA.....	16
4.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	16
4.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	17
4.5	DATA FOR NATIONAL REPORTING TABLE T4 .....	17
4.6	COMMENTS TO NATIONAL REPORTING TABLE T4 .....	17
<b>5</b>	<b>TABLE T5 – GROWING STOCK .....</b>	<b>18</b>
5.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	18
5.2	NATIONAL DATA.....	18
5.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	19
5.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	19
5.5	DATA FOR NATIONAL REPORTING TABLE T5 .....	19
5.6	COMMENTS TO NATIONAL REPORTING TABLE T5 .....	20
<b>6</b>	<b>TABLE T6 – BIOMASS STOCK.....</b>	<b>21</b>
6.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	21
6.2	NATIONAL DATA.....	21
6.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	22
6.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	23
6.5	DATA FOR NATIONAL REPORTING TABLE T6 .....	23
6.6	COMMENTS TO NATIONAL REPORTING TABLE T6 .....	23
<b>7</b>	<b>TABLE T7 – CARBON STOCK.....</b>	<b>24</b>
7.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	24
7.2	NATIONAL DATA.....	24
7.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	25
7.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	26
7.5	DATA FOR NATIONAL REPORTING TABLE T7 .....	26
7.6	COMMENTS TO NATIONAL REPORTING TABLE T7 .....	26
<b>8</b>	<b>TABLE T8 – DISTURBANCES AFFECTING HEALTH AND VITALITY .....</b>	<b>27</b>
8.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	27

8.2	NATIONAL DATA.....	27
8.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	28
8.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	28
8.5	DATA FOR NATIONAL REPORTING TABLE T8.....	28
8.6	COMMENTS TO NATIONAL REPORTING TABLE T8.....	28
<b>9</b>	<b>TABLE T9 – DIVERSITY OF TREE SPECIES.....</b>	<b>29</b>
9.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	29
9.2	NATIONAL DATA.....	29
9.3	DATA FOR NATIONAL REPORTING TABLE T9.....	30
9.4	COMMENTS TO NATIONAL REPORTING TABLE T9.....	30
<b>10</b>	<b>TABLE T10 – GROWING STOCK COMPOSITION.....</b>	<b>31</b>
10.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	31
10.2	NATIONAL DATA.....	31
10.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	32
10.4	DATA FOR NATIONAL REPORTING TABLE T10.....	32
10.5	COMMENTS TO NATIONAL REPORTING TABLE T10.....	32
<b>11</b>	<b>TABLE T11 – WOOD REMOVAL.....</b>	<b>33</b>
11.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	33
11.2	NATIONAL DATA.....	33
11.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	33
11.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	34
11.5	DATA FOR NATIONAL REPORTING TABLE T11.....	34
11.6	COMMENTS TO NATIONAL REPORTING TABLE T11.....	34
<b>12</b>	<b>TABLE T12 – VALUE OF WOOD REMOVAL.....</b>	<b>35</b>
12.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	35
12.2	NATIONAL DATA.....	35
12.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	35
12.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	36
12.5	DATA FOR NATIONAL REPORTING TABLE T12.....	36
12.6	COMMENTS TO NATIONAL REPORTING TABLE T12.....	36
<b>13</b>	<b>TABLE T13 – NON-WOOD FOREST PRODUCT REMOVAL.....</b>	<b>37</b>
13.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	37
13.2	NATIONAL DATA.....	37
13.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	38
13.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	39
13.5	DATA FOR NATIONAL REPORTING TABLE T13.....	39
13.6	COMMENTS TO NATIONAL REPORTING TABLE T13.....	39
<b>14</b>	<b>TABLE T14 – VALUE OF NON-WOOD FOREST PRODUCT REMOVAL.....</b>	<b>40</b>
14.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	40
14.2	NATIONAL DATA.....	40
14.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	41
14.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	42
14.5	DATA FOR NATIONAL REPORTING TABLE T14.....	42
14.6	COMMENTS TO NATIONAL REPORTING TABLE T14.....	42
<b>15</b>	<b>TABLE T15 – EMPLOYMENT IN FORESTRY.....</b>	<b>43</b>
15.1	FRA 2005 CATEGORIES AND DEFINITIONS.....	43
15.2	NATIONAL DATA.....	43
15.3	ANALYSIS AND PROCESSING OF NATIONAL DATA.....	43
15.4	RECLASSIFICATION INTO FRA 2005 CLASSES.....	44
15.5	DATA FOR NATIONAL REPORTING TABLE T15.....	44
15.6	COMMENTS TO NATIONAL REPORTING TABLE T15.....	44
<b>16</b>	<b>THEMATIC REPORTING TABLES.....</b>	<b>45</b>

# 1 Table T1 – Extent of Forest and Other wooded land

## 1.1 FRA 2005 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 <i>in situ</i> . 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 (Subordinated to “Other land”)	Land classified as “Other land”, spanning more than 0.5 hectares with a canopy cover of more than 10 percent of trees able to reach a height of 5 meters at 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
Forest Code of the Republic of Belarus	H	Tables coverage	2000	Categories and definitions
Directions (Reference Book/ Manual) for Forest Management and Planning work in State Forest Fund	H	Tables coverage	2002	Categories and definitions
State Land Cadastre of the Republic of Belarus for 1998-2002	H	Land use	1999-2003	Contains the information about the distribution of land by categories and land users
Simultaneous State Forest Account of the Republic of Belarus for 1993 and 2000	H	Forest cover	1994, 2001	Contains the information about areas and growing stock of the SFF of the Republic of Belarus
Information about Forest Fund of the MF of RB for 2001-2003	H	Forest cover	2002-2004	Contains the information about areas and growing stock of the SFF of the MF of Belarus

## 1.2.2 Classification and definitions

National class	Definition
Forest	The totality of the natural and artificially established woody and bushy vegetation, top-soil layers/cover, animals and micro-organisms, constituting the forest biocenosis, and being utilised in the economic, recreational, health-supporting, sanitary-hygienic, research-scientific and other purposes.
Forest Fund (FF)	The Forest Fund comprises all forests, and also lands of Forest Fund, which are not covered by forests (forest lands and non-forest lands).
Woody and bushy vegetation which is not included in Forest Fund	Scattered/ single trees, their groups/clusters, as well as other woody-bushy vegetation, including protective forest belts on the agricultural lands, on lands within the limits of rail and auto-roads, other transportation and communication lines and channels; on lands designated for health-supporting institutions / organisations, settlements (except urban forests), on lands allocated to citizens for collective gardening and the summer cottages construction, on lands of private households, lands for the construction and maintenance of apartment houses.
Forest lands	Forest lands include stocked forest lands, and also un-stocked forest lands, which are to be reforested/ afforested, and which are available for forestry needs.
Stocked (closed) forest lands	Stocked (closed) forest lands of the Forest Fund, occupied by young stands of trees species with the stand density of 0.4 and higher, and stands of other age classes/ groups with the stand density of 0.3 and higher, as well as land areas occupied by the bushy vegetation, where stands of trees species can be established without special forest-amelioration work.
Open (un-stocked) forest lands	Open (un-stocked) forest lands are not designated for forest re-establishing (clear-cut areas, burned forest areas, vanished stands, sparse stands, waste and bare land, openings, areas occupied by nurseries, non-closed plantations and other).

**Note:** The national classification does not consider the threshold levels of the height and size of the area for including the forest fund lands into a specific category. The minimum area that is being accounted is 0.1 hectare

## 1.2.3 Original data

National classes	1993 1000 ha	2000 1000 ha	2003 1000 ha
Stocked (closed) forest lands	7376.3	7848.4	NDA
Open (un-stocked) forest lands	404.2	424.5	NDA
Woody and bushy vegetation which is not included in Forest Fund	NDA	490.5	486

## 1.3 Analysis and processing of national data

### 1.3.1 Calibration

Source	Total Area (1000 ha)
National data	20760
FAOSTAT	20760

**Note:** There is no need to perform the calibration since the national land area data match the FAOSTAT land area database.

### 1.3.2 Estimation and forecasting

Due to lack of other information, the figures from 1993 were used for reporting year 1990, except for woody and bushy vegetation not included in Forest Fund, where the figure for 2000 was used.

During the last 5 years the large Forest Fund areas have been transferred from/to different land users, so the linear interpolation method for the 2005 forecasting was not applied. The forecast for 2005 was implemented on the basis of the annual information about the State Forest Fund of the Ministry for Forestry of the Republic of Belarus, and the State Land Cadastre of the Republic of Belarus.

National classes	1990 1000 ha	1993 1000 ha	2000 1000 ha	2003 1000 ha	2005 1000 ha
Stocked (closed) forest lands	7376	7376.3	7848.4	NDA	7894
Open (un-stocked) forest lands <sup>1/</sup>	404	404.2	424.5	NDA	428
Woody and bushy vegetation which is not included in Forest Fund	491	NDA	490.5	486	486
Other lands areas	12477	NDA	11984.6	NDA	11940
Inland water bodies <sup>2/</sup>	12	NDA	12	12	12
<b>TOTAL<sup>2/</sup></b>	<b>20760</b>	<b>NDA</b>	<b>20760</b>	<b>20760</b>	<b>20760</b>

1/ - Non-closed planted forests, as well as plantations and nurseries are included in this category

2/ - FAOSTAT data

### 1.4 Reclassification into FRA 2005 classes

National classes	FRA 2005 classes				
	Forest	OWL	Other land	OLTC	Inland water bodies
Stocked (closed) forest lands	100%	0	0	0	0
Open (un-stocked) forest lands	0	100%	0	0	0
Woody and bushy vegetation which is not included in Forest Fund	0	100%	0	0	0

### 1.5 Data for National reporting table T1

FRA 2005 Categories	Area (1000 hectares)		
	1990	2000	2005
Forest	7376	7848	7894
Other wooded land	895	915	914
Other land	12477	11985	11940
...of which with tree cover	NDA	NDA	NDA
Inland water bodies	12	12	12
<b>TOTAL</b>	<b>20760</b>	<b>20760</b>	<b>20760</b>

## 1.6 Comments to National reporting table T1

The main difficulty in the compilation of this table was the significant difference in the national classification of land areas (fund) and the classification of individual forest areas and other wooded land applied in FRA-2005, as well as the lack of national definitions and data/information on individual forest and other wooded land areas.

The estimated area of “Other wooded land” includes the area in the national category “Open/unstocked forest land” within the State Forest Fund and includes areas that would qualify as “Forest” according to the FRA 2005 definitions. However, no quantitative information is available that allow for an appropriate subdivision into “Forest” and “Other wooded land”, therefore all this area has been classified as “Other wooded land”.

## 2 Table T2 – Ownership of Forest and Other wooded land

### 2.1 FRA 2005 Categories and definitions

Category	Definition
Private ownership	Land owned by individuals, families, private co-operatives, corporations, industries, religious and educational institutions, pension or investment funds, and other private institutions.
Public ownership	Land owned by the State (national, state and regional governments) or government-owned institutions or corporations or other public bodies including cities, municipalities, villages and communes.
Other ownership	Land that is not classified either as “Public ownership” or as “Private ownership”.

### 2.2 National data

#### 2.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Land Code of the Republic of Belarus	H	Land use	2001	Document providing norms on the ownership categories in forests of the Republic of Belarus
State Land Cadastre of the Republic of Belarus	H	Land use	2001	Contains the information on distribution of Forest Fund of the Republic of Belarus by ownership categories

#### 2.2.2 Classification and definitions

National class	Definition
Private property	Land plots acquired by citizens of the Republic of Belarus, who permanently live on the RB territory, or equivalent to those permanently live on the RB territory, according the Belarus legislation.

**Note:** There are no clear definitions of other ownership categories in the above-noted sources of information. The FRA 2005 categories are applied for the compilation of the Table.

#### 2.2.3 Original data

FRA 2005 Categories	2001 Area (1000 hectares)	
	Forest	Other wooded land
Private ownership	0	0
Public ownership	7848.4	915
Other ownership	0	0
<b>TOTAL</b>	7848.4	915

## 2.3 Analysis and processing of national data

### 2.3.1 Calibration

Not required

### 2.3.2 Estimation and forecasting

Not required

## 2.4 Reclassification into FRA 2005 classes

Not required

## 2.5 Data for National reporting table T2

FRA 2005 Categories	Area (1000 hectares)			
	Forest		Other wooded land	
	1990	2000	1990	2000
Private ownership	0	0	0	0
Public ownership	7376	7848	895	915
Other ownership	0	0	0	0
<b>TOTAL</b>	<b>7376</b>	<b>7848</b>	<b>895</b>	<b>915</b>

## 2.6 Comments to National reporting table T2

All forests and other wooded land were publicly owned in 1990 and 2000.

### 3 Table T3 – Designated function of Forest and Other wooded land

#### 3.1 FRA 2005 Categories and definitions

##### *Types of designation*

Category	Definition
Primary function	A designated function is considered to be primary when it is significantly more important than other functions. This includes areas that are legally or voluntarily set aside for specific purposes.
Total area with function	Total area where a specific function has been designated, regardless whether it is primary or not.

##### *Designation categories*

Category / Designated function	Definition
Production	Forest / Other wooded land designated for production and extraction of forest goods, including both wood and non-wood forest products.
Protection of soil and water	Forest / Other wooded land designated for protection of soil and water.
Conservation of biodiversity	Forest / Other wooded land designated for conservation of biological diversity.
Social services	Forest / Other wooded land designated for the provision of social services.
Multiple purpose	Forest / Other wooded land designated to any combination of: production of goods, protection of soil and water, conservation of biodiversity and provision of social services and where none of these alone can be considered as being significantly more important than the others.
No or unknown function	Forest / Other wooded land for which a specific function has not been designated or where designated function is unknown.

#### 3.2 National data

##### 3.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Forest Code of the Republic of Belarus	H	Forest cover	2000	Document sets norms of the functional distribution of forests of the RB
Simultaneous State Forest Account of the Republic of Belarus	H	Forest cover	2001	Contains the information about designated functions of forests
Rules (regulations) of assigning forests to the protection groups and categories	H	Forest cover	2003	Document sets norms of the distribution of Forest Fund by protection categories

##### 3.2.2 Classification and definitions

Category / Designated function	Definition
Forests on specifically protected nature territories	Forests located on specifically protected nature territories (natural parks (“zapovednic”), national parks, wildlife preservation areas (“zakaznik”) of the national importance, natural monuments of the national importance)
Water-protecting forests	Protected (“forbidden”) belts of forests and forests within the limits of the water-protecting zones along the riverbanks /shores, lakes, water reservoirs, and other water-storage objects.
Protective forests	Soil erosion preventing forests, protective forest belts along the railroads

	and auto-roads of general use
Sanitary-hygienic and health-supporting (recreation) forests	Urban forests, forests of the “green belts” (zones) around cities, around other settlements and industrial enterprises, including forests of parks within the “green zones”, forest of the first and second belts of the sanitary protection of watersheds, and forests of sanitary protection of health resorts – health resorts’ forests
Exploitable forests	Forests available for wood supply (Exploitable forests)

### 3.2.3 Original data

National classes	Forest		OWL	
	1993 1000 ha	2000 1000 ha	1993 1000 ha	2000 1000 ha
Forests on specifically protected nature territories	285.6	395.3	71.6	91.7
Water-protecting forests	616.9	1178.0	32.5	54.6
Protective forests	1008.8	1067.8	36.9	41.7
Sanitary-hygienic and health-supporting (recreation) forests	1196.4	1195.6	37.7	65.7
Exploitable forests	4268.6	4011.7	225.5	170.8
<b>TOTAL</b>	<b>7376.3</b>	<b>7848.4</b>	<b>404.2<sup>1/</sup></b>	<b>424.5<sup>1/</sup></b>

1/ - On the reason of the absence of data, the distribution of OWL by national categories was presented without taking into account the data on the woody-bushy vegetation, which is not a part of the Forest Fund of the Republic.

## 3.3 Analysis and processing of national data

### 3.3.1 Calibration

Not required

### 3.3.2 Estimation and forecasting

The figures for 1993 were used for reporting year 1990. The forecast for 2005 was implemented on the basis of the available information on changes in the State Forest Fund for 2001-2004.

National classes	Forest			OWL		
	1990 1000 ha	2000 1000 ha	2005 1000 ha	1990 1000 ha	2000 1000 ha	2005 1000 ha
Forests on specifically protected nature territories	285.6	395.3	466	71.6	91.7	108
Water-protecting forests	616.9	1178.0	1174	32.5	54.6	54
Protective forests	1008.8	1067.8	1062	36.9	41.7	41
Sanitary-hygienic and health-supporting (recreation) forests	1196.4	1195.6	1196	37.7	65.7	64
Exploitable forests	4268.6	4011.7	3996	225.5	170.8	167
<b>TOTAL</b>	<b>7376.3</b>	<b>7848.4</b>	<b>7894</b>	<b>404.2</b>	<b>424.5</b>	<b>434</b>

### 3.4 Reclassification into FRA 2005 classes

National functions	Category/Designated function FRA 2005					
	Production	Protection of soil and water	Conservation of biodiversity	Social services	Multiple purpose	No or unknown function
Forests on specifically protected nature territories	0	0	100%	0	0	0
Water-protecting forests	0	100%	0	0	0	0
Protective forests <sup>1/</sup>	0	100%	0	0	0	0
Sanitary-hygienic and health-supporting (recreation) forests	0	0	0	100%	0	0
Exploitable forests	100%	0	0	0	0	0
Woody and bushy vegetation which is not a part of the Forest Fund	0	0	0	0	0	100%

1/ - Protective forests according to the national classification include erosion-preventing forests, protective forest belts along the railroads and auto-roads of general use. The FRA 2005 classification does not foresee directly this function (class), that is why according experts estimates these forests are included in the category “Protection of soil and water”, as the most suitable (corresponding) to their really implemented function.

All forests have protective and social functions as a primary or secondary function.

### 3.5 Data for National reporting table T3

FRA 2005 Categories / Designated function	Area (1000 hectares)					
	Primary function			Total area with function		
	1990	2000	2005	1990	2000	2005
<b>Forest</b>						
Production	4269	4012	3996	4269	4012	3996
Protection of soil and water	1626	2246	2236	7376	7848	7894
Conservation of biodiversity	286	395	466	286	395	466
Social services	1196	1196	1196	7376	7848	7894
Multiple purpose	0	0	0	not appl.	not appl.	not appl.
No or unknown function	0	0	0	not appl.	not appl.	not appl.
<b>TOTAL - Forest</b>	<b>7376</b>	<b>7848</b>	<b>7894</b>	<b>not appl.</b>	<b>not appl.</b>	<b>not appl.</b>
<b>Other wooded land</b>						
Production	226	171	167	226	171	167
Protection of soil and water	69	96	95	895	915	914
Conservation of biodiversity	72	92	108	72	92	108
Social services	38	66	64	895	915	914
Multiple purpose	0	0	0	not appl.	not appl.	not appl.
No or unknown function	491	491	480	not appl.	not appl.	not appl.
<b>TOTAL – Other wooded land</b>	<b>895</b>	<b>915</b>	<b>914</b>	<b>not appl.</b>	<b>not appl.</b>	<b>not appl.</b>

### 3.6 Comments to National reporting table T3

No comments.

## 4 Table T4 – Characteristics of Forest and Other wooded land

### 4.1 FRA 2005 Categories and definitions

Category	Definition
Primary	Forest / Other wooded land of native species, where there are no clearly visible indications of human activities and the ecological processes are not significantly disturbed.
Modified natural	Forest / Other wooded land of naturally regenerated native species where there are clearly visible indications of human activities.
Semi-natural	Forest / Other wooded land of native species, established through planting, seeding or assisted natural regeneration.
Productive plantation	Forest / Other wooded land of introduced species, and in some cases native species, established through planting or seeding mainly for production of wood or non wood goods.
Protective plantation	Forest / Other wooded land of native or introduced species, established through planting or seeding mainly for provision of services.

### 4.2 National data

#### 4.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Simultaneous State Forest Account of the Republic of Belarus	H	Forest cover	2001	Contains the information about areas within the Forest Fund

#### 4.2.2 Classification and definitions

**Note:** On the reason of the absence of corresponding national categories/ definitions, the FRA 2005 classification was fully applied for the compilation of this table.

#### 4.2.3 Original data

FRA 2005 Categories	Forest		OWL	
	1993 1000 ha	2000 1000 ha	1993 1000 ha	2000 1000 ha
Primary	400	400	0	0
Modified natural	5404.8	5755.3	716.8	746.5
Semi-natural	1569.8	1691.1	177.4	168.5
Productive plantation	1.7	2.0	0	0
Protective plantation	NDA	NDA	NDA	NDA
<b>TOTAL</b>	7376.3	7848.4	894.2	915.0

### 4.3 Analysis and processing of national data

#### 4.3.1 Calibration

Not required

### 4.3.2 Estimation and forecasting

The figures for 1993 were applied to reporting year 1990.

Forecasting of all categories for the year 2005 was implemented individually... Thus, Primary forests and Productive plantations are left at the level of the year 2000. The forest areas in the category “Semi-natural” were forecasted by the linear interpolation method. Other forest areas are left for the category “Modified natural”. Areas of OWL were forecasted on the basis of their factual availability on 01.01.2004.

FRA 2005 Categories	Forest			OWL		
	1993 1000 ha	2000 1000 ha	2005 1000 ha	1993 1000 ha	2000 1000 ha	2005 1000 ha
Primary	400	400	400	0	0	0
Modified natural	5404.8	5755.3	5712	716.8	746.5	714
Semi-natural	1569.8	1691.1	1780	177.4	168.5	200
Productive plantation	1.7	2.0	2	0	0	0
Protective plantation	NDA	NDA	NDA	NDA	NDA	NDA
<b>TOTAL</b>	<b>7376.3</b>	<b>7848.4</b>	<b>7894</b>	<b>894.2</b>	<b>915</b>	<b>914</b>

### 4.4 Reclassification into FRA 2005 classes

Not required.

### 4.5 Data for National reporting table T4

FRA 2005 Categories	Area (1000 hectares)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Primary	400	400	400	0	0	0
Modified natural	5405	5755	5712	717	747	714
Semi-natural	1570	1691	1780	177	169	200
Productive plantation	1.7	2.0	2	0	0	0
Protective plantation	NDA	NDA	NDA	NDA	NDA	NDA
<b>TOTAL</b>	<b>7376</b>	<b>7848</b>	<b>7894</b>	<b>895</b>	<b>915</b>	<b>914</b>

### 4.6 Comments to National reporting table T4

In the Republic there are no clear definitions of the FRA 2005 categories implied in this section.

The Productive plantations include the introduced species established mainly by planting or seeding.

There are forests and OWL established in the Republic for the protective purposes, but there are no reliable data about those areas.

## 5 Table T5 – Growing stock

### 5.1 FRA 2005 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.
Commercial growing stock	The part of the growing stock of species that are considered as commercial or potentially commercial under current market conditions, and with a diameter at breast height of Z cm or more.

### 5.2 National data

#### 5.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Simultaneous State Forest Account of the Republic of Belarus	H	Growing stock	1994, 2001	Contains the information about the growing stock of the Forest Fund of the RB
Terminology dictionaries/glossaries	H	Terms and Definitions	1993	
Forest Cadastre Book of the Republic of Belarus	H	Growing stock	2004	Information about the growing stock of the Forest Fund of the RB

#### 5.2.2 Classification and definitions

National class	Definition
Growing stock	Volume of stem wood of all living trees available in the particular stand, in cubic meters
Commercial growing stock	There is no a corresponding definition <sup>1/</sup>

1/ - Due to absence in the Republic of this particular term and the definition of “*Commercial growing stock*”, and in accordance with the experts opinion, the data /information on the growing stock of forests available for wood supply (exploitable forests) are reported, as the closest category to the FRA 2005 definition of “*Commercial growing stock*”.

#### 5.2.3 Original data

FRA 2005 Categories	Volume (million cubic meters over bark)			
	Forest		OWL	
	2000	2003	2000	2003
Growing stock	1339.2	1382.4	NDA	NDA
Commercial growing stock	1093.0	1138.8	NDA	NDA

### 5.3 Analysis and processing of national data

#### 5.3.1 Calibration

Not required

#### 5.3.2 Estimation and forecasting

FRA 2005 Categories	Volume (million cubic meters over bark)					
	Forest			OWL		
	1990	2000	2005	1990	2000	2005
Growing stock	1195.2	1339.2	1411.2	NDA	NDA	NDA
Commercial growing stock	940.4	1093.0	1169.3	NDA	NDA	NDA

**Note:** Estimation and forecasting was implemented by the linear interpolation method.

#### 5.4 Reclassification into FRA 2005 classes

Not required

#### 5.5 Data for National reporting table T5

FRA 2005 Categories	Volume (million cubic meters over bark)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Growing stock	1195	1339	1411	NDA	NDA	NDA
Commercial growing stock	940	1093	1169	NDA	NDA	NDA

Specification of country threshold values	Unit	Value	Complementary information
1. Minimum diameter at breast height of trees included in Growing stock (X)	cm		Not established
2. Minimum diameter at the top end of stem (Y) for calculation of Growing stock	cm		Not established
3. Minimum diameter of branches included in Growing stock (W)	cm		Branches are not included into the volume of Growing Stock
4. Minimum diameter at breast height of trees in Commercial growing stock (Z)	cm		Not established
5. Volume refers to “Above ground” (AG) or “Above stump” (AS)	AG / AS	AG	
6. Have any of the above thresholds (points 1 to 4) changed since 1990	Yes/No	No	No
7. If yes, then attach a separate note giving details of the change	Attachment		None

## **5.6 Comments to National reporting table T5**

The OWL in the Republic of Belarus are represented by the open (un-stocked) forest lands and by woody and bushy vegetation. With a rare exception there were no any inventory of the latter... It is difficult to say something definite with regard to the distribution of these areas by categories, species distribution, and moreover about the growing stock. Due to this situation, the data on OWL are not given in this table.

## 6 Table T6 – Biomass stock

### 6.1 FRA 2005 Categories and definitions

Category	Definition
Above-ground biomass	All living biomass above the soil including stem, stump, branches, bark, seeds, and foliage.
Below-ground biomass	All living biomass of live roots. Fine roots of less than 2mm diameter are excluded because these often cannot be distinguished empirically from soil organic matter or litter.
Dead wood biomass	All non-living woody biomass not contained in the litter, either standing, lying on the ground, or in the soil. Dead wood includes wood lying on the surface, dead roots, and stumps larger than or equal to 10 cm in diameter or any other diameter used by the country.

### 6.2 National data

#### 6.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Simultaneous State Forest Account of the Republic of Belarus	H	Growing stock	2001	Information about the growing stock of the Forest Fund of the RB

#### 6.2.2 Classification and definitions

**Note:** The FRA 2005 categories and definitions were applied for the compilation of this table.

#### 6.2.3 Original data

Tree species	GS volume (million cubic meters) 2000
Common Pine - <i>Pinus sylvestris</i> L.	738.2
Common Birch - <i>Betula verrucosa (pendula)</i>	232.6
Norway Spruce - <i>Picea abies</i> L.	167.9
Common Alder - <i>Alnus glutinosa</i> L.	97.5
Pedunculate Oak - <i>Quercus robur</i> L.	43.2
Aspen - <i>Populus tremula</i>	27.4
Grey (White) Alder - <i>Alnus incana</i> L.	21.2
Common Ash - <i>Fraxinus excelsior</i> L.	5.1
European Hornbeam - <i>Carpinus betulus</i>	2.3
Bosnian Maple - <i>Acer platanoides</i>	0.5
Remainder of species	3.3
<b>TOTAL</b>	<b>1339.2</b>

### 6.3 Analysis and processing of national data

#### 6.3.1 Calibration

Not required

#### 6.3.2 Estimation and forecasting - Calculation of biomass stock of leaving trees for 2000

Tree Species	Growing Stock (million m3)	BASIC DENSITY (TONS/M3)	Stem biomass (MLN. TONS)	BEF	AG biomass (mln. tons)	ROOT/ SHOOT RATIO	BG biomass (mln. tons)
Common Pine - <i>Pinus sylvestris</i> L.	738.2	0.42	310.0	1.35	418.5	0.32	133.9
Common Birch - <i>Betula verrucosa (pendula)</i>	232.6	0.51	118.6	1.30	154.2	0.26	40.1
Norway Spruce - <i>Picea abies</i> L.	167.9	0.40	67.2	1.35	90.7	0.32	29.0
Common Alder - <i>Alnus glutinosa</i> L.	97.5	0.45	43.9	1.30	57.1	0.26	14.8
Pedunculate Oak - <i>Quercus robur</i> L.	43.2	0.58	25.1	1.30	32.6	0.35	11.4
Aspen - <i>Populus tremula</i>	27.4	0.35	9.6	1.30	12.5	0.24	3.0
Grey (White) Alder - <i>Alnus incana</i> L.	21.2	0.45	9.5	1.30	12.4	0.24	3.0
Common Ash - <i>Fraxinus excelsior</i> L.	5.1	0.57	2.9	1.30	3.8	0.35	1.3
European Hornbeam - <i>Carpinus betulus</i>	2.3	0.63	1.4	1.30	1.8	0.35	0.6
Bosnian Maple - <i>Acer platanoides</i>	0.5	0.52	0.3	1.30	0.4	0.35	0.1
Remainder of species	3.3	0.49	1.6	1.325	2.1	0.30	0.6
<b>TOTAL for 2000</b>	1339.2		590.1		786.1		237.8
<b>Deadwood biomass</b>	7.3 <sup>1/</sup>	0.49	3.6	1.16 <sup>2/</sup>	204.78	0.3	1.2

1/ - The calculation of the deadwood biomass was based on the data of volume of this category of wood from the MF of the RB, with the following interpolation for all the SFF areas of the Republic of Belarus

2/ - The BEF for deadwood was assumed as of 50 % of the BEF for growing (living) trees, as a common experts' opinion

**Note:** For the calculation of the stem biomass, and the AG and BG biomass, the standard FRA 2005 biomass data and the ratio root/shoot were applied

**For 2000:**

$$WCF_{agb} = AGB/GS = 786.1/1339.2 = 0.586992;$$

$$WCF_{bgb} = BGB/GS = 237.8/1339.2 = 0.177569;$$

$$Dw = 1023.9 * 0.20 (\text{evergreen forest}) = 204.78.$$

**For 1990:**

$$1195.2 * 0.586992 = 701.57;$$

$$1195.2 * 0.177569 = 212.23;$$

$$Dw = 913.8 * 0.20 = 182.76.$$

**For 2005:**

$$1411.2 * 0.586992 = 828.36;$$

$$1411.2 * 0.177569 = 250.59;$$

$$Dw = 1078.95 * 0.2 = 215.70.$$

#### 6.4 Reclassification into FRA 2005 classes

Not required

#### 6.5 Data for National reporting table T6

FRA 2005 Categories	Biomass (million metric tonnes oven-dry weight)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Above-ground biomass	701.6	786.1	828.4	NDA	NDA	NDA
Below-ground biomass	212.2	237.8	250.6	NDA	NDA	NDA
Dead wood biomass	182.8	204.8	215.8	NDA	NDA	NDA
<b>TOTAL</b>	<b>1096.6</b>	<b>1228.7</b>	<b>1294.8</b>	NDA	NDA	NDA

#### 6.6 Comments to National reporting table T6

In the process of improving the present Report (May 2005) the biomass stock was calculated on the basis of the national complex factors. The difference between the calculated figures and the data presented in FRA 2005 Country Report data was – 2.5 %. Because of insignificant differences, the data in the Report has been left unchanged.

## 7 Table T7 – Carbon stock

### 7.1 FRA 2005 Categories and definitions

Category	Definition
Carbon in above-ground biomass	Carbon in all living biomass above the soil, including stem, stump, branches, bark, seeds, and foliage.
Carbon in below-ground biomass	Carbon in all living biomass of live roots. Fine roots of less than 2 mm diameter are excluded, because these often cannot be distinguished empirically from soil organic matter or litter.
Carbon in dead wood biomass	Carbon in all non-living woody biomass not contained in the litter, either standing, lying on the ground, or in the soil. Dead wood includes wood lying on the surface, dead roots, and stumps larger than or equal to 10 cm in diameter or any other diameter used by the country.
Carbon in litter	Carbon in all non-living biomass with a diameter less than a minimum diameter chose by the country for lying dead (for example 10 cm), in various states of decomposition above the mineral or organic soil. This includes the litter, fomic, and humic layers.
Soil carbon	Organic carbon in mineral and organic soils (including peat) to a specified depth chosen by the country and applied consistently through the time series.

### 7.2 National data

#### 7.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Simultaneous State Forest Account of the Republic of Belarus	H	Growing stock	2001	Information about the growing stock of the Forest Fund of the RB

#### 7.2.2 Classification and definitions

**Note:** The FRA 2005 categories and definitions were applied for the compilation of this table.

#### 7.2.3 Original data

Table T6 was used as input.

FRA 2005 Categories	Biomass stock (Million metric tonnes oven-dry weight)		
	1990	2000	2005
Above-ground biomass	701.6	786.1	828.4
Below-ground biomass	212.2	237.8	250.6
Dead wood biomass	182.8	204.8	215.8

## 7.3 Analysis and processing of national data

### 7.3.1 Calibration

Not required

### 7.3.2 Estimation and forecasting

#### a) Calculation of carbon stock in biomass of leaving trees and deadwood

The calculation was done by multiplying standard values suggested by IPCC-GPG for the carbon content in biomass of growing trees (50 %) by the biomass data, correspondingly the above-ground and below-ground parts

FRA 2005 Categories	Biomass stock (million tonnes)			IPCC-GPG conversion factor	Carbon stock (million tonnes)		
	1990	2000	2005		1990	2000	2005
Above-ground biomass	701.6	786.1	828.4	0.5	350.8	393.1	414.2
Below-ground biomass	212.2	237.8	250.6	0.5	106.1	118.9	125.3
Dead wood biomass	182.8	204.8	215.8	0.5	91.4	102.4	2.8

#### b) Calculation of carbon stock in litter

Forests	Forest Area, 1000 ha			Carbon stock in litter (t/ha)	Carbon stock (million tonnes)		
	1990	2000	2005		1990	2000	2005
Coniferous	4426	4727.9	4755	31 <sup>1/</sup>	137	146.5	147.4
Broadleaved	2950	3120.5	3199	25 <sup>1/</sup>	73.8	78.0	80.0
<b>TOTAL</b>	<b>7376</b>	<b>7848.4</b>	<b>7894</b>		<b>210.8</b>	<b>224.5</b>	<b>227.4</b>

1/ - The standard values per hectare suggested by IPCC-GPG were used in the calculation

Note: The proportion of coniferous/broadleaved in 1990 was assumed to be the same as in 2000 (60 percent conifer, 40 percent broadleaved)

#### c) Calculation of carbon stock in soil

Soil type	Forest Area, 1000 ha			Carbon stock on 1 ha (tonnes)	Carbon stock (million tonnes)		
	1990	2000	2005		1990	2000	2005
HAC soils	1106	1177.3	1184	681/	75.2	80.0	80.5
LAC soils	1549	1648.2	1658	30 <sup>1/</sup>	46.5	49.4	49.7
Sandy soils	2655	2825.4	2842	10 <sup>1/</sup>	26.6	28.3	28.4
Spodic soils	443	470.9	473	117 <sup>1/</sup>	51.8	55.1	55.3
Wetlands soils	1623	1726.6	1737	146 <sup>1/</sup>	237	252.1	253.6
<b>TOTAL</b>	<b>7376</b>	<b>7848.4</b>	<b>7894</b>		<b>437</b>	<b>464.9</b>	<b>467.5</b>

1/ - For the “LAC soils” type the national indicator of carbon accumulation was applied, for other types of soil the standard values per hectare suggested by IPCC-GPG were used in the calculation

Note: The proportions of the different soil types in 1990 were assumed to be the same as in 2000.

#### 7.4 Reclassification into FRA 2005 classes

Not required

#### 7.5 Data for National reporting table T7

FRA 2005 Categories	Carbon (Million metric tonnes)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Carbon in above-ground biomass	351	393	414	NDA	NDA	NDA
Carbon in below-ground biomass	106	119	125	NDA	NDA	NDA
<b>Sub-total: Carbon in living biomass</b>	<b>457</b>	<b>512</b>	<b>540</b>	NDA	NDA	NDA
Carbon in dead wood	91.4	102	107.9	NDA	NDA	NDA
Carbon in litter	211	225	227	NDA	NDA	NDA
<b>Sub-total: Carbon in dead wood and litter</b>	<b>302</b>	<b>327</b>	<b>335</b>	NDA	NDA	NDA
Soil carbon to a depth of 30 cm	437	465	468	NDA	NDA	NDA
<b>TOTAL CARBON</b>	<b>1196</b>	<b>1304</b>	<b>1342</b>	NDA	NDA	NDA

#### 7.6 Comments to National reporting table T7

The calculation of carbon in soil was implemented more accurately in the process of improving the draft FRA 2005 Country Report due to the precision of the distribution of soil types. At the same time, we should note that the calculation of the carbon in soil is still a very approximate one, on the reason of the lack of reliable data on the distribution of forests in the Republic by soil types.

Currently, in the Republic there are no necessary data for the calculation of carbon in litter and soil. The national conversion factors for the calculation of the carbon stock in biomass of living trees and deadwood do not differ from the standard coefficients suggested by IPCC-GPG. In this connection, the calculation of carbon in forests of the Republic was based on standard values proposed by IPCC-GPG.

## 8 Table T8 – Disturbances affecting health and vitality

### 8.1 FRA 2005 Categories and definitions

Category	Definition
Disturbance by fire	Disturbance caused by wildfire, independently whether it broke out inside or outside the forest/OWL.
Disturbance by insects	Disturbance caused by insect pests that are detrimental to tree health.
Disturbance by diseases	Disturbance caused by diseases attributable to pathogens, such as a bacteria, fungi, phytoplasma or virus.
Other disturbance	Disturbance caused by other factors than fire, insects or diseases.

### 8.2 National data

#### 8.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Annual Economic and Financial Report of the Ministry for Forestry	H	Forest cover	1998-2002	Information about losses and disturbances of forests

#### 8.2.2 Classification and definitions

**Note:** The national terms and definitions correspond to the FRA 2005 terms and definitions, so the latter ones were applied in the compilation of this table.

#### 8.2.3 Original data

Categories/Classes	Annual area (hectares)					Average annual area for 5 years (hectares)
	1998	1999	2000	2001	2002	
Disturbance by fire <sup>1/</sup>	826	4536	1430	357	19690	5368
Disturbance by insects	NDA	62555	NDA	28645	36001	42400
Disturbance by diseases	163178	159994	157646	168191	159245	161561
Other disturbance:						
- wildlife / animals	29	34	-	11	20	19
- excessive moisture	514	221	237	564	400	387
- anthropogenic factors	-	3	2	-	5	2

1/ - Fires, according to the national norms (standards) in the Republic of Belarus, are recorded starting from 0.01 ha

**Note:** Data in the above table are on the Forest Fund of the Ministry for Forestry of the Republic of Belarus

### 8.3 Analysis and processing of national data

#### 8.3.1 Calibration

Forest Area of the Forest Fund of the Republic of Belarus in the year 2000: 7848.4 (1000 ha)

Forest Area of the Ministry for Forestry of the Republic of Belarus in the year 2000: 6572.8 (1000 ha)

Conversion Factor:  $7848.4 / 6572.8 = 1.194$

#### 8.3.2 Estimation and forecasting

FRA 2005 Categories	Average annual area affected (1000 hectares)		
	MF Forests	Conversion factor	Forest Fund of the Republic
Disturbance by fire	5.4	1.194	6.4
Disturbance by insects	42.4	1.194	50.6
Disturbance by diseases	161.6	1.194	193.0
Other disturbance:			
- wildlife / animals	0.02	1.194	0.02
- excessive moisture	0.4	1.194	0.5
- anthropogenic factors	0.002	1.194	0.002

### 8.4 Reclassification into FRA 2005 classes

Not required

### 8.5 Data for National reporting table T8

FRA-2005 Categories	Average annual area affected (1000 hectares)			
	Forests		Other wooded land	
	1990	2000	1990	2000
Disturbance by fire	NDA	6.4	NDA	NDA
Disturbance by insects	NDA	50.6	NDA	NDA
Disturbance by diseases	NDA	193.0	NDA	NDA
Other disturbance:				
- wildlife / animals	NDA	0.02	NDA	NDA
- excessive moisture	NDA	0.5	NDA	NDA
- anthropogenic factors	NDA	0.002	NDA	NDA

Note: The data are given together for forests and OWL

### 8.6 Comments to National reporting table T8

The reported data of the Ministry for Forestry of the Republic of Belarus include the summarised data/ information about disturbances in the Forest Fund of the Ministry, including forests and OWL, without breaking down by the two categories.

## 9 Table T9 – Diversity of tree species

### 9.1 FRA 2005 Categories and definitions

Category	Definition
Number of native tree species	The total number of native tree species that have been identified within the country.
Number of critically endangered tree species	The number of native tree species that are classified as “Critically endangered” in the IUCN red list.
Number of endangered tree species	The number of native tree species that are classified as “Endangered” in the IUCN red list.
Number of vulnerable tree species	The number of native tree species that are classified as “Vulnerable” in the IUCN red list.

### 9.2 National data

#### 9.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Information of the Institute of the Experimental Botany of the National Academy of Sciences of Belarus	H	Number of species	2004	
IUCN Red List	M	Endangered and vulnerable species	2004	

#### 9.2.2 Classification and definitions

**Note:** The FRA 2005 categories and definitions were applied for the compilation of this table.

#### 9.2.3 Original data

FRA 2005 Categories	Number of species (year 2000)
Native tree species	28
Critically endangered tree species	2
Endangered tree species	3
Vulnerable tree species	-

The IUCN Red List does not contain any endangered or vulnerable species for Belarus.

### 9.3 Data for National reporting table T9

FRA 2005 Categories	Number of species (year 2000)
Native tree species	28
Critically endangered tree species	0
Endangered tree species	0
Vulnerable tree species	0

### 9.4 Comments to National reporting table T9

The IUCN Red List, which has been used for this table, does not contain any endangered or vulnerable species for Belarus.

However, the Republic of Belarus applies the classification of endangered tree species according to the IUCN Red List standards

The native critically endangered tree species:

Silver (White) Fir - *Abies alba* Mill.  
Oak – *Quercus* spp. - 1 (one) species

The native endangered tree species:

Elm – *Ulmus* spp. - 3 (three) species

## 10 Table T10 – Growing stock composition

### 10.1 FRA 2005 Categories and definitions

List of species names (scientific and common names) of the ten most common species.

Category	
1. Common Pine	- <i>Pinus sylvestris</i> L.
2. Common Birch	- <i>Betula verrucosa (pendula)</i>
3. Norway Spruce	- <i>Picea abies</i> L.
4. Aspen	- <i>Populus tremula</i>
5. Common Alder	- <i>Alnus glutinosa</i> L.
6. Pedunculate Oak	- <i>Quercus robur</i> L.
7. Grey (White) Alder	- <i>Alnus incana</i> L.
8. Common Ash	- <i>Fraxinus excelsior</i> L.
9. European Hornbeam	- <i>Carpinus betulus</i>
10. Bosnian Maple	- <i>Acer platanoides</i>

### 10.2 National data

#### 10.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Simultaneous State Forest Account of the Republic of Belarus	H	Growing stock	2001	Contains the information about the growing stock of the Forest Fund of the RB by dominating species

#### 10.2.2 Original data

FRA 2005 Categories / Species name (Scientific name and common name)	Growing Stock in Forests (million cubic meters)	
	1993	2000
1. Common Pine - <i>Pinus sylvestris</i> L.	611.1	738.2
2. Common Birch - <i>Betula verrucosa</i>	173.9	232.6
3. Norway Spruce - <i>Picea abies</i> L.	156.1	167.9
4. Aspen - <i>Populus tremula</i>	79.1	97.5
5. Common Alder - <i>Alnus glutinosa</i> L.	33.9	43.2
6. Pedunculate Oak - <i>Quercus robur</i> L.	22.2	27.4
7. Grey (White) Alder - <i>Alnus incana</i> L.	9.3	21.2
8. Common Ash - <i>Fraxinus excelsior</i> L.	3.5	5.1
9. European Hornbeam - <i>Carpinus betulus</i>	1.5	2.3
10. Bosnian Maple - <i>Acer platanoides</i>	-	0.5
Remainder of species	2.6	3.3
<b>TOTAL</b>	<b>1093.2</b>	<b>1339.2</b>

### 10.3 Analysis and processing of national data

#### 10.3.1 Calibration

Not required

#### 10.3.2 Estimation and forecasting

The 1993 data have been used for reporting year 1990 (in accordance with table T1).

### 10.4 Data for National reporting table T10

FRA 2005 Categories / Species name (Scientific name and common name)	Growing Stock in Forests (million cubic meters)	
	1990	2000
1. Common Pine - <i>Pinus sylvestris</i> L.	611.1	738.2
2. Common Birch - <i>Betula verrucosa</i>	173.9	232.6
3. Norway Spruce - <i>Picea abies</i> L.	156.1	167.9
4. Aspen - <i>Populus tremula</i>	79.1	97.5
5. Common Alder - <i>Alnus glutinosa</i> L.	33.9	43.2
6. Pedunculate Oak - <i>Quercus robur</i> L.	22.2	27.4
7. Grey (White) Alder - <i>Alnus incana</i> L.	9.3	21.2
8. Common Ash - <i>Fraxinus excelsior</i> L.	3.5	5.1
9. European Hornbeam - <i>Carpinus betulus</i>	1.5	2.3
10. Bosnian Maple - <i>Acer platanoides</i>	-	0.5
Remainder of species	2.6	3.3
<b>TOTAL</b>	<b>1093.2</b>	<b>1339.2</b>

### 10.5 Comments to National reporting table T10

No comments

## 11 Table T11 – Wood removal

### 11.1 FRA 2005 Categories and definitions

Category	Definition
Industrial wood removal	The wood removed (volume of roundwood over bark) for production of goods and services other than energy production (woodfuel).
Woodfuel removal	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
Data/ information from the Ministry of Statistics and Analysis, and the Ministry of Economy of the Republic of Belarus	H	Volumes of wood	1998-2002	

#### 11.2.2 Classification and definitions

**Note:** The FRA 2005 categories and definitions were applied for the compilation of this table.

#### 11.2.3 Original data

FRA 2005 Categories	Volume in 1000 cubic meters of roundwood under bark					
	1998	1999	2000	2001	2002	Average 1998-2002
Industrial roundwood	5034.0	5417.6	5207.6	5538.0	5969.0	5433.2
Woodfuel	868.0	1143.5	928.2	947.0	978.0	972.9
<b>TOTAL</b>	<b>5902.0</b>	<b>6561.1</b>	<b>6135.8</b>	<b>6485.0</b>	<b>6947.0</b>	<b>6406.1</b>

**Note:** As the initial national data, the information reported to the international organisations and presented in the “*Guidelines for Country reporting to FRA 2005*” (Appendix 3) was used.

Volumes of removal of wood for the Republic of Belarus are given for the forest and OWL as a whole

### 11.3 Analysis and processing of national data

#### 11.3.1 Estimation and forecasting

FRA 2005 Categories	Volume in 1000 cubic meters of roundwood			
	Average (u.b.) 2000	Conversion factor	2000 (over bark)	2005 (forecast)
Industrial roundwood	5433.2	1.15	6248.2	7323
Woodfuel	972.9	1.15	1118.8	1245

<b>TOTAL for Country</b>	6406.1		7367.0	8568
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**Note:** For the conversion of volumes of roundwood under bark into the volumes of roundwood over bark, the global conversion factor 1.15 was applied.

Forecasting for the year 2005 was implemented by the linear extrapolation method.

#### 11.4 Reclassification into FRA 2005 classes

Not required

#### 11.5 Data for National reporting table T11

FRA 2005 Categories	Volume in 1000 cubic meters of roundwood over bark					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Industrial roundwood	NDA	6248.2	7323	NDA	NDA	NDA
Woodfuel	NDA	1118.8	1245	NDA	NDA	NDA
<b>TOTAL for Country</b>	NDA	7367.0	8568	NDA	NDA	NDA

#### 11.6 Comments to National reporting table T11

The records of volumes of wood removal in the Republic are being implemented together for the forest and OWL, as a single whole.

## 12 Table T12 – Value of wood removal

### 12.1 FRA 2005 Categories and definitions

Category	Definition
Value of industrial wood removal	Value of the wood removed for production of goods and services other than energy production (woodfuel).
Value of woodfuel removal	Value of the wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use.

### 12.2 National data

#### 12.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Data/ information from the Ministry of Statistics and Analysis, and the Ministry of Economy of the Republic of Belarus	H	Volumes of wood	1998-2002	

#### 12.2.2 Classification and definitions

**Note:** The FRA 2005 terms and definitions were applied for the compilation of this table.

#### 12.2.3 Original data

FRA 2005 Categories	1998	1999	2000	2001	2002	Average
Industrial roundwood	NDA	NDA	19400	NDA	NDA	19400
Woodfuel	NDA	NDA	3600	NDA	NDA	3600
<b>TOTAL</b>	NDA	NDA	23000	NDA	NDA	23000
Currency rate to USD dollar	220	320	1180	1580	1920	1044

**Note:** The data for the year 2000 are the average data for the 5-year period from 1998 to 2002. The information by individual years is not available (not saved). The obtaining this information might be a certain difficulty, and could cause the delay in finalising the FRA 2005 reporting.

The values of the removed wood for the Republic of Belarus are given for the forest and OWL as a whole, as there is no a separate account for OWL.

### 12.3 Analysis and processing of national data

### 12.3.1 Estimation and forecasting

FRA 2005 Categories	Value of roundwood removal (1000 USD)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Industrial roundwood	NDA	19400	22700	NDA	NDA	NDA
Woodfuel	NDA	3600	4000	NDA	NDA	NDA
<b>TOTAL for Country</b>	NDA	23000	26700	NDA	NDA	NDA

**Note:** Forecasting for the year 2005 was implemented by the linear interpolation method

### 12.4 Reclassification into FRA 2005 classes

Not required

### 12.5 Data for National reporting table T12

FRA 2005 Categories	Value of roundwood removal (1000 USD)					
	Forest			Other wooded land		
	1990	2000	2005	1990	2000	2005
Industrial roundwood	NDA	19400	22700	NDA	NDA	NDA
Woodfuel	NDA	3600	4000	NDA	NDA	NDA
<b>TOTAL for Country</b>	NDA	23000	26700	NDA	NDA	NDA

### 12.6 Comments to National reporting table T12

No comments.

## 13 Table T13 – Non-wood forest product removal

### 13.1 FRA 2005 Categories and definitions

The following categories of non-wood forest products have been defined:

Category	Unit
<u>Plant products / raw material</u>	
1. Food	Mass (tonnes or kg)
2. Fodder	Mass (tonnes or kg)
3. Raw material for medicine and aromatic products	Mass (tonnes or kg)
4. Raw material for colorants and dyes	Mass (tonnes or kg)
5. Raw material for utensils, handicrafts & construction	Mass (tonnes or kg)
6. Ornamental plants	Mass (tonnes or kg)
7. Exudates	Mass (tonnes or kg)
1. Other plant products	Mass (tonnes or kg)
<u>Animal products / raw material</u>	
2. Living animals	Units
3. Hides, skins and trophies	Units
4. Wild honey and bee-wax	Mass (tonnes or kg)
5. Bush meat	Mass (tonnes or kg)
6. Raw material for medicine	Mass (tonnes or kg)
7. Raw material for colorants	Mass (tonnes or kg)
8. Other edible animal products	Mass (tonnes or kg)
9. Other non-edible animal products	Mass (tonnes or kg)

### 13.2 National data

#### 13.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Data/ information from the Ministry of Statistics and Analysis, Ministry of Economy, Ministry of Nature Resources and Environment Protection, Ministry for Forestry of the Republic of Belarus	M	Volumes of goods	1998-2002	

#### 13.2.2 Classification and definitions

**Note:** The FRA 2005 terms and definitions were applied for the compilation of this table.

#### 13.2.3 Original data

FRA 2005 Categories	Units	NWFP removal				
		1998	1999	2000	2001	2002

<u>Plant products / raw material</u>							
1. Food	tonnes	24426	7330	9998	10635	14635	13405
2. Fodder	tonnes	NDA	NDA	21600	NDA	NDA	21600
3. Raw material for medicine and aromatic products	tonnes	236	495	530	246	241	350
4. Raw material for colorants and dyes	tonnes	127	267	284	71	605	271
5. Raw material for utensils, handicrafts & construction	tonnes	NDA	NDA	NDA	NDA	NDA	NDA
6. Ornamental plants	tonnes	NDA	NDA	NDA	NDA	NDA	NDA
7. Exudates	tonnes	NDA	NDA	NDA	NDA	NDA	NDA
8. Other plant products	tonnes	NDA	NDA	3000	NDA	NDA	3000
<u>Animal products / raw material</u>							
9. Living animals	1000 units	NDA	NDA	250	281	225	252
10. Hides, skins and trophies	1000 units	NDA	NDA	5.2	NDA	NDA	5.2
11. Wild honey and bee-wax	tonnes	NDA	NDA	NDA	NDA	NDA	NDA
12. Bush meat	tonnes	NDA	NDA	3000	NDA	NDA	3000
13. Raw material for medicine	tonnes	NDA	NDA	NDA	NDA	NDA	NDA
14. Raw material for colorants	tonnes	NDA	NDA	NDA	NDA	NDA	NDA
15. Other edible animal products	tonnes	NDA	NDA	NDA	NDA	NDA	NDA
16. Other non-edible animal products	tonnes	NDA	NDA	NDA	NDA	NDA	NDA

### 13.3 Analysis and processing of national data

#### 13.3.1 Estimation and forecasting

FRA 2005 Categories	Units	NWFP removal		
		1990	2000	2005
<u>Plant products / raw material</u>				
1. Food	tonnes	10215	13405	15000
2. Fodder	tonnes	18800	21600	23000
3. Raw material for medicine and aromatic products	tonnes	250	350	400
4. Raw material for colorants and dyes	tonnes	213	271	300
5. Raw material for utensils, handicrafts & construction	tonnes	NDA	NDA	NDA
6. Ornamental plants	tonnes	NDA	NDA	NDA
7. Exudates	tonnes	NDA	NDA	NDA
8. Other plant products	tonnes	2400	3000	3300
<u>Animal products / raw material</u>				
9. Living animals	1000 units	236	252	260
10. Hides, skins and trophies	1000 units	4.6	5.2	5.5
11. Wild honey and bee-wax	tonnes	NDA	NDA	NDA
12. Bush meat	tonnes	2600	3000	3200
13. Raw material for medicine	tonnes	NDA	NDA	NDA
14. Raw material for colorants	tonnes	NDA	NDA	NDA

15. Other edible animal products	tonnes	NDA	NDA	NDA
16. Other non-edible animal products	tonnes	NDA	NDA	NDA

**Note:** the 1990 data were estimated by linear extrapolation method (between 2000 and 2005)

### 13.4 Reclassification into FRA 2005 classes

Not required

### 13.5 Data for National reporting table T13

FRA 2005 Categories	Units	NWFP removal		
		1990	2000	2005
<u>Plant products / raw material</u>				
1. Food	tonnes	10215	13405	15000
2. Fodder	tonnes	18800	21600	23000
3. Raw material for medicine and aromatic products	tonnes	250	350	400
4. Raw material for colorants and dyes	tonnes	213	271	300
5. Raw material for utensils, handicrafts & construction	tonnes	NDA	NDA	NDA
6. Ornamental plants	tonnes	NDA	NDA	NDA
7. Exudates	tonnes	NDA	NDA	NDA
8. Other plant products	tonnes	2400	3000	3300
<u>Animal products / raw material</u>				
9. Living animals	1000 units	236	252	260
10. Hides, skins and trophies	1000 units	4.6	5.2	5.5
11. Wild honey and bee-wax	tonnes	NDA	NDA	NDA
12. Bush meat	tonnes	2600	3000	3200
13. Raw material for medicine	tonnes	NDA	NDA	NDA
14. Raw material for colorants	tonnes	NDA	NDA	NDA
15. Other edible animal products	tonnes	NDA	NDA	NDA
16. Other non-edible animal products	tonnes	NDA	NDA	NDA

### 13.6 Comments to National reporting table T13

The main difficulty in the compilation of this table was to get data/ information from different ministries and organisations/ institutions. Not all data/ information were obtained...

## 14 Table T14 – Value of non-wood forest product removal

### 14.1 FRA 2005 Categories and definitions

The following categories of non-wood forest products have been defined:

<b>Category</b>
<u>Plant products / raw material</u>
1. Food
2. Fodder
3. Raw material for medicine and aromatic products
4. Raw material for colorants and dyes
5. Raw material for utensils, handicrafts & construction
6. Ornamental plants
7. Exudates
8. Other plant products
<u>Animal products / raw material</u>
9. Living animals
10. Hides, skins and trophies
11. Wild honey and bee-wax
12. Bush meat
13. Raw material for medicine
14. Raw material for colorants
15. Other edible animal products
16. Other non-edible animal products

### 14.2 National data

#### 14.2.1 Data sources

<b>References to sources of information</b>	<b>Quality (H/M/L)</b>	<b>Variable(s)</b>	<b>Year(s)</b>	<b>Additional comments</b>
Data/ information from the Ministry of Statistics and Analysis, Ministry of Economy, Ministry of Nature Resources and Environment Protection, Ministry for Forestry of the Republic of Belarus	M	Volumes	1998-2002	

#### 14.2.2 Classification and definitions

### 14.2.3 Original data

FRA 2005 Categories	Value of the of NWFP removed (1000 USD)					
	1998	1999	2000	2001	2002	Average
<u>Plant products / raw material</u>						
1. Food	NDA	NDA	15000	NDA	NDA	15000
2. Fodder	NDA	NDA	NDA	NDA	NDA	NDA
3. Raw material for medicine and aromatic products	NDA	NDA	40	NDA	NDA	40
4. Raw material for colorants and dyes	NDA	NDA	32	NDA	NDA	32
5. Raw material for utensils, handicrafts & construction	NDA	NDA	NDA	NDA	NDA	NDA
6. Ornamental plants	NDA	NDA	NDA	NDA	NDA	NDA
7. Exudates	NDA	NDA	NDA	NDA	NDA	NDA
8. Other plant products	NDA	NDA	1200	NDA	NDA	1200
<u>Animal products / raw material</u>						
9. Living animals	NDA	NDA	5150	NDA	NDA	5150
10. Hides, skins and trophies	NDA	NDA	15	NDA	NDA	15
11. Wild honey and bee-wax	NDA	NDA	NDA	NDA	NDA	NDA
12. Bush meat	NDA	NDA	6200	NDA	NDA	6200
13. Raw material for medicine	NDA	NDA	NDA	NDA	NDA	NDA
14. Raw material for colorants	NDA	NDA	NDA	NDA	NDA	NDA
15. Other edible animal products	NDA	NDA	NDA	NDA	NDA	NDA
16. Other non-edible animal products	NDA	NDA	NDA	NDA	NDA	NDA

## 14.3 Analysis and processing of national data

### 14.3.1 Estimation and forecasting

FRA 2005 Categories	Value of the of NWFP removed (1000 USD)		
	1990	2000	2005
<u>Plant products / raw material</u>			
1. Food	NDA	15000	15000
2. Fodder	NDA	NDA	NDA
3. Raw material for medicine and aromatic products	NDA	40	50
4. Raw material for colorants and dyes	NDA	32	40
5. Raw material for utensils, handicrafts & construction	NDA	NDA	NDA
6. Ornamental plants	NDA	NDA	NDA
7. Exudates	NDA	NDA	NDA
8. Other plant products	NDA	1200	2000
<u>Animal products / raw material</u>			
9. Living animals	NDA	5150	5500
10. Hides, skins and trophies	NDA	15	15
11. Wild honey and bee-wax	NDA	NDA	NDA
12. Bush meat	NDA	6200	7000
13. Raw material for medicine	NDA	NDA	NDA
14. Raw material for colorants	NDA	NDA	NDA
15. Other edible animal products	NDA	NDA	NDA
16. Other non-edible animal products	NDA	NDA	NDA

**Note:** Forecasting was implemented on the basis of experts' estimates (experts opinion)

## 14.4 Reclassification into FRA 2005 classes

Not required

## 14.5 Data for National reporting table T14

FRA 2005 Categories	Value of the of NWFP removed (1000 USD)		
	1990	2000	2005
<u>Plant products / raw material</u>			
1. Food	NDA	15000	15000
2. Fodder	NDA	NDA	NDA
3. Raw material for medicine and aromatic products	NDA	40	50
4. Raw material for colorants and dyes	NDA	32	40
5. Raw material for utensils, handicrafts & construction	NDA	NDA	NDA
6. Ornamental plants	NDA	NDA	NDA
7. Exudates	NDA	NDA	NDA
8. Other plant products	NDA	1200	2000
<u>Animal products / raw material</u>			
9. Living animals	NDA	5150	5500
10. Hides, skins and trophies	NDA	15	15
11. Wild honey and bee-wax	NDA	NDA	NDA
12. Bush meat	NDA	6200	7000
13. Raw material for medicine	NDA	NDA	NDA
14. Raw material for colorants	NDA	NDA	NDA
15. Other edible animal products	NDA	NDA	NDA
16. Other non-edible animal products	NDA	NDA	NDA
<b>TOTAL</b>			

## 14.6 Comments to National reporting table T14

The main difficulty in the compilation of this table was to get data/ information from different ministries and organisations/ institutions. Not all data/ information were obtained...

It was not possible to estimate 1990 data (in 1990, the Soviet Ruble was still in use) due to the lack of information about the prices and exchange rate.

## 15 Table T15 – Employment in forestry

### 15.1 FRA 2005 Categories and definitions

Category	Definition
Primary production of goods	Employment in activities related to primary production of goods, like industrial roundwood, woodfuel and non-wood forest products.
Provision of services	Employment in activities directly related to services from forests and woodlands.
Unspecified forestry activities	Employment in unspecified forestry activities.

### 15.2 National data

#### 15.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Annual Report of the Ministry for Forestry of the Republic of Belarus	H	Employment (number of working people)	2000	

#### 15.2.2 Classification and definitions

**Note:** The FRA 2005 terms and definitions were applied for the compilation of this table.

#### 15.2.3 Original data

FRA 2005 Categories	1990 Employment (1000 person-years)
Primary production of goods	36.5 <sup>1/</sup>
Provision of services	NDA
Unspecified forestry activities	NDA
<b>TOTAL</b>	36.5 <sup>1/</sup>

1/ - Data for the Ministry for Forestry

### 15.3 Analysis and processing of national data

#### 15.3.1 Estimation and forecasting

Total Area of the Forest Fund of the Republic of Belarus: 9247.5 (1000 ha)

Area of Forest Fund of the Ministry for Forestry of the Republic of Belarus: 7591.8 (1000 ha)

Conversion Factor:  $9247.5 / 7591.8 = 1.218$

FRA 2005 Categories	Employment (1000 person-years)		
	MF Forest Fund	Conversion Factor	RB Forest Fund
Primary production of goods	36.5 <sup>1/</sup>	1.218	44.5
Provision of services	0	NDA	0
Unspecified forestry activities	0	NDA	0
<b>TOTAL</b>	36.5	1.218	44.5

1/ - Data for the Ministry for Forestry of the Republic of Belarus

### 15.4 Reclassification into FRA 2005 classes

Not required

### 15.5 Data for National reporting table T15

FRA 2005 Categories	Employment (1000 person-years)	
	1990	2000
Primary production of goods	NDA	44.5
Provision of services	NDA	0
Unspecified forestry activities	NDA	0
<b>TOTAL</b>	NDA	<b>44.5</b>

### 15.6 Comments to National reporting table T15

The Ministry for Forestry reporting documents do not cover the information on employment in this sector of the economy in a format, which could be broken down by the corresponding FRA 2005 categories.

## **16 Thematic reporting tables**

The Republic of Belarus as a member of the Ministerial Conference for the Protection of Forest in Europe (MCPFE) reports on Criteria and Indicators of Sustainable Forest Management to this regional process. In order to avoid double reporting, Belarus does not provide an additional report by thematic areas.