



Forestry Department

Food and Agriculture Organization of the United Nations

**GLOBAL FOREST RESOURCES
ASSESSMENT 2010**

COUNTRY REPORT

**IRAN
(ISLAMIC REPUBLIC OF)**

FRA2010/096

Rome, 2010



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 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:

Mette Løyche Wilkie
Senior Forestry Officer
FAO Forestry Department
Viale delle Terme di Caracalla
Rome 00153, Italy

E-mail: Mette.LoycheWilkie@fao.org

Readers can also use the following e-mail address: fra@fao.org

DISCLAIMER

The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

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.

Contents

1	TABLE T1 – EXTENT OF FOREST AND OTHER WOODED LAND.....	5
2	TABLE T2 – FOREST OWNERSHIP AND MANAGEMENT RIGHTS.....	8
3	TABLE T3 – FOREST DESIGNATION AND MANAGEMENT.....	11
4	TABLE T4 – FOREST CHARACTERISTICS.....	14
5	TABLE T5 – FOREST ESTABLISHMENT AND REFORESTATION.....	17
6	TABLE T6 – GROWING STOCK.....	18
7	TABLE T7 – BIOMASS STOCK.....	22
8	TABLE T8 – CARBON STOCK.....	24
9	TABLE T9 – FOREST FIRES.....	26
10	TABLE T10 – OTHER DISTURBANCES AFFECTING FOREST HEALTH AND VITALITY.....	28
11	TABLE T11 – WOOD REMOVALS AND VALUE OF REMOVALS.....	31
12	TABLE T12 – NON-WOOD FOREST PRODUCTS REMOVALS AND VALUE OF REMOVALS...	33
13	TABLE T13 – EMPLOYMENT.....	36
14	TABLE T14 – POLICY AND LEGAL FRAMEWORK.....	38
15	TABLE T15 – INSTITUTIONAL FRAMEWORK.....	40
16	TABLE T16 – EDUCATION AND RESEARCH.....	42
17	TABLE T17 – PUBLIC REVENUE COLLECTION AND EXPENDITURE.....	42

Report preparation and contact persons

No report has been received from Iran.

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 <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
Engineering Technical Bureau of FRWO	H	Satellite Images Landsat 5 TM	1998	Excluding fragmented Forests with around 0.5 ha. We are providing maps with 1:25000 to extract those forests in coming year 2005
Technical Forest Management of FRWO	M	Land cover map 1:25000 for North of Iran Land Cover 1:250000 For the rest	1997	Base Map: 1997-8. Output Map: 2000

1.2.2 Classification and definitions

National class	Definition
Forest	Land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 5 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.

1.2.3 Original data

	classification based on vegetation cover map 1/25000 in year2000	Percentage Cover- %	Area/ 1000 ha.
Out of North Forests	First class	100-50	843.495
	Second Class	25-50	2773.204
	Third Class1	10-25	4175.553
	Third Class2	10-5	2783.702
	Mangrove Forest	-	19.234
North Forests	Hyrcanian Forest	50-100	1847.886
	Planted forest	-	592.922
			13035.998

Through Iran FRA Expertise Group session the statistics of the table A mixed with other valid statistics plus expertise views and after correction some of statistics (first class , second class and thirdclass1) the total area for out of North Forest (>10%) changed to 8636046 ha instead of 7811486 ha.

Table B: Forest Area with more than 10 % tree coverage

	Forest Area / 1000ha.
Out of North Forest	8636.046
North Forest	1847.886
Planted Forest	592.922
Total	11074.554

Note: The figures in the table B is the original data used in FRA for calculation and for preparing other tables (the columns which related to year 2000).

1997

Forest area: 13 858 556 ha of which 11 074 854 have a crown cover of more than 10 percent.
Shrubland: 2 556 404 ha . Parks and green spaces: 82 624 ha

1.3 Analysis and processing of national data

1.3.1 Calibration

The total land area and inland water was calibrated according to the FAO STAT. Calibration was done in the class of other land to keep the forest area constant.

1.3.2 Estimation and forecasting

Forests:

Forest (National Class)	Area/000ha
5%<	13858.556

Forest (FRA2005 Classification)	Area/ 000ha
10%<	11074.854

Other wooded lands = 2556.404 (000ha) Shrub lands + 2783.702 (000 ha) Forest less than 10% coverage, totalling 5340.106 (000 ha). Other land with tree cover includes the total area of parks + green spaces in the Out of North Forests.

There is no information available for estimating changes over time, but any deforestation is unlikely to exceed the annual planting rate, so the original data have been used for all the reporting years.

1.4 Data for Table T1

FRA 2010 categories	Area (1000 hectares)			
	1990	2000	2005	2010
Forest	11 075	11 075	11 075	11 075
Other wooded land	5 340	5 340	5 340	5 340
Other land	146 440	146 440	146 440	146 440
...of which with tree cover	83	83	83	83
Inland water bodies	11 660	11 660	11 660	11 660
TOTAL	174 515	174 515	174 515	174 515

1.5 Comments to Table T1

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Forest	The figures in the table entitled original data (Table A and Table B) are based on vegetation cover 1/25000 in year 2000. The method used for preparing this map is satellite data (1998) interpretation plus expertise views.	The above estimates are based on information from 1997. There is no information available for estimating changes over time, but any deforestation is unlikely to exceed the annual planting rate, so the original data have been used for all reporting years.
Other wooded land		
Other land		Around 600 000 ha of Total Forest are used as forest fallow.
Other land with tree cover		
Inland water bodies		

Other general comments to the table

The significant differences between forest area in FRA 2000 and FRA 2005 is related to different forest reclassification used for two FRAs (2000 and 2005) and also is related to unavailable valid statistics in the year which the FRA 2000 report was prepared for the country.

Expected year for completion of ongoing/planned national 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 administration.
Private ownership	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 associations and other private institutions.
Individuals (sub-category of Private ownership)	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 co-operatives, 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
Engineering Technical Bureau of FRWO	H	Public ownership	2000	

2.2.2 Classification and definitions

National class	Definition
Not available	

2.2.3 Original data

According to the Constitutional Law of Iran, the principle 45, all of forests, shrub lands and other wooded lands are owned by the State. Table T1 has, therefore, been used as input to this table.

2.3 Data for Table T2

Table 2a - Forest ownership

FRA 2010 Categories	Forest area (1000 hectares)		
	1990	2000	2005
Public ownership	11 075	11 075	11 075
Private ownership	0	0	0
...of which owned by individuals	n.a.	n.a.	n.a.
...of which owned by private business entities and institutions	n.a.	n.a.	n.a.
...of which owned by local communities	n.a.	n.a.	n.a.
...of which owned by indigenous / tribal communities	n.a.	n.a.	n.a.
Other types of ownership	0	0	0
TOTAL	11 075	11 075	11 075

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 land on which they are situated?	<input type="checkbox"/>	Yes
	<input type="checkbox"/>	No
If No above, please describe below how the two differ:		

Table 2b - Holder of management rights of public forests

FRA 2010 Categories	Forest area (1000 hectares)		
	1990	2000	2005
Public Administration	n.a.	n.a.	n.a.
Individuals	n.a.	n.a.	n.a.
Private corporations and institutions	n.a.	n.a.	n.a.
Communities	n.a.	n.a.	n.a.
Other	n.a.	n.a.	n.a.
TOTAL	11 075	11 075	11 075

2.4 Comments to Table T2

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Public ownership		
Private ownership		
Other types of ownership		
Management rights		

Other general comments to the table

3 Table T3 – Forest designation and management

3.1 FRA 2010 Categories and definitions

Term	Definition
Primary designated function	The primary function or management objective assigned to a management unit either by legal prescription, documented decision of the landowner/manager, or evidence provided by documented studies of forest management practices and customary use.
Protected areas	Areas especially dedicated to the protection and maintenance of biological diversity, and of natural and associated cultural resources, and managed through legal or other effective means.
Categories of primary designated functions	
Production	Forest area designated primarily for production of wood, fibre, bio-energy and/or non-wood forest products.
Protection of soil and water	Forest area designated primarily for protection of soil and water.
Conservation of biodiversity	Forest area designated primarily for conservation of biological diversity. Includes but is not limited to areas designated for biodiversity conservation within the protected areas.
Social services	Forest area designated primarily for social services.
Multiple use	Forest area designated primarily for more than one purpose and where none of these alone is considered as the predominant designated function.
Other	Forest areas designated primarily for a function other than production, protection, conservation, social services or multiple use.
No / unknown	No or unknown designation.
Special designation and management categories	
Area of permanent forest estate (PFE)	Forest area that is designated to be retained as forest and may not be converted to other land use.
Forest area within protected areas	Forest area within formally established protected areas independently of the purpose for which the protected areas were established.
Forest area under sustainable forest management	To be defined and documented by the country.
Forest area with management plan	Forest area that has a long-term (ten years or more) documented management plan, aiming at defined management goals, which is periodically revised.

3.2 National data

3.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Engineering Technical Bureau of FRWO	M	Conservation of biodiversity	2004	Arasbaran Forests (152 851 hectares). Some parts of this forest is conserved as biosphere reserve and the rest be conserved by FRWO and some restoration plans formulated for this forest. This forest is not national park.
Expert estimation. Head of Expert group Dr. Shamsollah Shariat Negad	M	Production forest	2005	

3.2.2 Classification and definitions

National class	Definition
Production	In accordance with the FRA classification
Conservation of biodiversity	In accordance with the FRA classification
Multiple purpose	In accordance with the FRA classification

3.2.3 Original data

Production forest: 1 500 000 hectares.

Conservation of biodiversity: Arasbaran Forests (152 851 hectares)

The rest of the forest area is classified as multiple purpose.

3.3 Analysis and processing of national data

3.3.1 Estimation and forecasting

Due to lack of other information, the original data have been used for all reporting years.

3.4 Data for Table T3

Table 3a – Primary designated function

FRA 2010 Categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Production	1 500	1 500	1 500	1 500
Protection of soil and water	0	0	0	0
Conservation of biodiversity	153	153	153	153
Social services	0	0	0	0
Multiple use	9 422	9 422	9 422	9 422
Other (please specify in comments below the table)	0	0	0	0
No / unknown	0	0	0	0
TOTAL	11 075	11 075	11075	11075

Table 3b – Special designation and management categories

FRA 2010 Categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Area of permanent forest estate	n.a.	n.a.	n.a.	n.a.
Forest area within protected areas	n.a.	n.a.	n.a.	n.a.
Forest area under sustainable forest management	n.a.	n.a.	n.a.	n.a.
Forest area with management plan	n.a.	n.a.	n.a.	n.a.

3.5 Comments to Table T3

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Production		
Protection of soil and water		
Conservation of biodiversity		
Social services		
Multiple use		
Other		
No / unknown designation		
Area of permanent forest estate		
Forest area within protected areas		
Forest area under sustainable forest management		
Forest area with management plan		

Other general comments to the table
The area designated for conservation of biodiversity is the Arasbaran Forests. The area classified as multiple purpose includes forest area designated for soil and water protection and for other functions such as Reservoirs, Biosphere, forest parks and etc.

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 (sub-category)	Planted forest, where the planted/seeded trees are predominantly of 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
Engineering Technical Bureau of FRWO	M		2004	
Head of FRA 2005 expert group, Dr. Shariat negad			2004	It includes Plantations of native species in the Caspian Forests. The main objective of plantation in this part is restoration. Plantations in the Out of North Forests of native and introduced species Plantations of conifers in the Caspian Forests (10% of total forest plantations established in the Caspian Forest are conifers). The main objective in this part is for production

4.2.2 Original data

FRA 2005 Categories	Area (1000 hectares)	Reference year	Source
Primary	200	2004	Expert estimate
Plantations of native species in the Caspian Forests	228	2004	""
Plantations in the Out of North Forests of native and introduced species + Plantations of conifers in the Caspian Forests	616	2004	""
Protective plantation	-	2004	""
TOTAL	11075	2004	""

Plantation in desert areas with some native and introduce species that does not have success as a forest and can be as shrublands.

2004

Primary forest: 200 000 ha

Plantations of native species in the Caspian Forests (228 567.6 ha).

Plantations in the Out of North Forests of native and introduced species (590 922 ha) + Plantations of conifers in the Caspian Forests (Around 10% of total forest plantations (or 25300 ha) established in the Caspian Forest are conifers) totalling 616 328.4 ha.

Data for mangroves come from the FAO Working paper Mangroves of Asia which reports the followings:

Mangroves area ha	1994	1997
	20 700	19 234

Original source 1994: **Khosravi and Motalebi**. 1994. Mangrove studies project in the Khuran Strait. *In: Indus Delta Biosphere Reserve; Workshop report*. pp 57-60 IUCN World Conservation Union, Gland Switzerland

Original source 1997: Engineering Technical Bureau of FRWO

4.3 Analysis and processing of national data

4.3.1 Estimation and forecasting

The same figures have been considered valid for all years.

For mangroves linear interpolation for 1990 and linear extrapolation for 2000 and 2005 has been used. For 2010 due to lack of updated figures same figure as 2005 has been used.

4.3.2 Reclassification into FRA 2010 categories

Planted forest: Plantations of native species in the Caspian Forests (228 567.6 ha)+ Plantations in the Out of North Forests of native and introduced species (590 922 ha) + Plantations of conifers in the Caspian Forests (Around 10% of total forest plantations (or 25300 ha) established in the Caspian Forest are conifers).

Modified natural forests: the remaining forests.

4.4 Data for Table T4

Table 4a

FRA 2010 Categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Primary forest	200	200	200	200
Other naturally regenerated forest	10031	10031	10031	10031
...of which of introduced species	n.a.	n.a.	n.a.	n.a.
Planted forest	844	844	844	844
...of which of introduced species	n.a.	n.a.	n.a.	n.a.
TOTAL	11 075	11 075	11 075	11 075

Table 4b

FRA 2010 Categories	Area (1000 hectares)			
	1990	2000	2005	2010
Rubber plantations (Forest)	n.a.	n.a.	n.a.	n.a.
Mangroves (Forest and OWL)	23	19	19	19
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

5 Table T5 – Forest establishment and reforestation

No data available to complete this reporting 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
Forest Deputy- FRWO	H	Growing stock	1987	(For Caspian Forests) 4 th national periodic inventory based on temperate sample plots- field work during 1985-1988,published in1990
Forest Deputy- FRWO	H	Growing Stock	1997	5 th national periodic inventory based on permanent sample plots- field work during 1996-1998,published in2000
Forest Deputy- FRWO	L	Growing stock	1999	(For Out of North Forests) Not published
Forestry Deputy	H	Species	2000	

6.2.2 Classification and definitions

National class	Definition
Growing Stock for (Caspian Forests)	Volume over bark of all living trees more than 12.5 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 7 cm, and may also include branches to a minimum diameter of 7 cm.
Growing Stock (for Out of North Forests)	Volume over bark of all living trees more than 7.5 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 5 cm, and may also include branches to a minimum diameter of 5 cm.

6.2.3 Original data

Caspian forests:

According to the 4th national periodic inventory based on temperate sample plots-field work during 1985-1988, in 1987, the forest area of the Caspian Forest is estimated at 1 925 167 ha and the average growing stock is 210 cubic meters per hectare.

Based on vegetation cover map scale 1:25000, forest area in 1997 is 1 847 886 ha, and it is assumed the same area for the year 2000. The average growing stock is 220 cubic meters per hectare

Out of North Forests

Based on vegetation cover map scale 1:25000, forest area in 1997 is 9 227 854 ha.

The most parts of the Out of North Forests are simple coppice, so measurement of the growing stock cannot be easily done. The growing stock in these forests varies between 5 to 40 cubic meters per hectare. Average growing stock for these forests is estimated at 12 cubic meters per hectare.

Growing stock composition:

Only growing stock data by species for Caspian forests from 1987 and 1997 are available and presented in this table.

FRA 2005 Categories / Species name* (Scientific name and common name)	Growing Stock in Forests (million cubic meters)	
	1987	1997
Carpinus betulus	126.20	125.25
Beech or fagus orientalis	132.48	123.26
Alnus sp.	30.53	35.53
Quercus castaneafolia	34.17	36.35
Acer sp.	30.32	27.39
Pavotia persica	15.75	21.29
Tillia sp	11.45	10.61
Diospyrus lotus	5.99	9.86
Fraxinus sp.	1.21	1.41
Remainder of species	16.68	15.585
TOTAL	404.87	406.53

6.3 Analysis and processing of national data

6.3.1 Estimation and forecasting

Caspian forests:

The 1987 figure has been used for reporting year 1990 and the 1997 figure has been used for reporting year 2000.

According to the decreasing of deforestation and annual harvesting the average volume of the growing stock increases by 1 cubic meter per hectare per year.

For 2005, an average growing stock of 225 cubic metres per hectare has been assumed with the same forest area as in 1997. Same assumption has been done for 2010

year	Forest Area	Average Growing Stock
1990	1925167	210
2000	1847886	220
2005	1847886	225
2010	1847886	230

FRA Categories (For Caspian Forests only)	Volume (million cubic meters over bark)			
	Forest			
	1990	2000	2005	2010
Growing stock	404.894	406.535	415.774	425.014

Out of North Forests

The growing stock in these forests is assumed to have remained constant at 110 734 248 m³ (equivalent to 12 m³/ha * 9 227 854 ha)

FRA Categories (for Out of North Forests)	Volume (million cubic meters over bark)			
	Forest			
	1990	2000	2005	2010
Growing stock	110.73	110.73	110.73	110.73

For growing stock composition the same composition in percentage as 2000 has been applied to growing stock of 2005. Since growing stock composition is only known for the Caspian forest the rest of the growing stock as from table 6a has been accounted in the “remaining” category.

6.4 Data for Table T6

Table 6a – Growing stock

FRA 2010 category	Volume (million cubic meters over bark)							
	Forest				Other wooded land			
	1990	2000	2005	2010	1990	2000	2005	2010
Total growing stock	516	517	527	536	n.a.	n.a.	n.a.	n.a.
... of which coniferous	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
... of which broadleaved	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Growing stock of commercial species	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Table 6b – Growing stock of the 10 most common species

FRA 2010 category / Species name			Growing stock in forest (million cubic meters)		
Rank	Scientific name	Common name	1990	2000	2005
1 st	<i>Carpinus betulus</i>		126.2	125.3	127.7
2 nd	<i>Fagus orientalis</i>		132.5	123.3	125.6
3 rd	<i>Alnus</i> sp.		30.5	35.5	36.2
4 th	<i>Quercus castaneafolia</i>		34.2	36.4	37.1
5 th	<i>Acer</i> sp.		30.3	27.4	27.9
6 th	<i>Pavotia persica</i>		15.8	21.3	21.7
7 th	<i>Tillia</i> sp		11.5	10.6	10.8
8 th	<i>Diospyrus lotus</i>		6.0	9.9	10.1
9 th	<i>Fraxinus</i> sp.		1.2	1.4	1.4
10 th					
Remaining			127.9	126.1	128.5
TOTAL			516	517	527

Note: Rank refers to the order of importance in terms of growing stock, i.e. 1st is the species with the highest growing stock. Year 2000 is the reference year for defining the species list and the order of the species.

Table 6c – Specification of threshold values

Item	Value	Complementary information
Minimum diameter (cm) at breast height ¹ of trees included in growing stock (X)	12.5 cm	
Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)	7 cm	
Minimum diameter (cm) of branches included in growing stock (W)	7 cm	
Volume refers to “above ground” (AG) or “above stump” (AS)	AG	

6.5 Comments to Table T6

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Total growing stock		
Growing stock of broadleaved / coniferous		
Growing stock of commercial species		
Growing stock composition	This table includes just the species of Caspian Forest. However, the growing stock of Caspian forest represents approximately 80% of the total growing stock in the country.	

Other general comments to the table

¹ Diameter at breast height (DBH) refers to diameter over bark measured at a height of 1.30 m above ground level or 30 cm above buttresses if these are higher than 1 m.

7 Table T7 – Biomass stock

7.1 FRA 2010 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 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	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.

7.2 National data

7.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
FAO. 2008. Guidelines for Country Reporting to FRA 2005. Global Forest Resources Assessment 2010				Biomass conversion and expansion factor (BCEF) and root-shoot ratio from Appendix 5 FRA guidelines

7.2.2 Original data

No national data on biomass were available so IPCC default values were applied to the growing stock as in table 6.

7.3 Analysis and processing of national data

7.3.1 Estimation and forecasting

Above ground biomass:

Following recommendations from FRA guidelines the following assumptions and calculations have been made:

From appendix 5, table 5.4 pag 6 of the FRA guidelines and considering a sub tropical ecological zone and a growing stock comprised between 41 and 80 m³/ha the biomass conversion and expansion factor (BCEF) of 0.8 have been applied to the growing stock:

Below ground biomass :

From appendix 5, table 5.3 pag 5 of the FRA guidelines, considering an above ground biomass >20t/ha and a sub tropical dry forest biome (no estimates available for the subtropical mountain system), the root-shoot ratio of 0.28 has been chosen.

	1990	2000	2005	2010
Growing stock (million m3)	516	517	527	536
BCEF	0.8	0.8	0.8	0.8
Aboveground biomass (million tonnes)	413	414	422	429
Root-shoot ratio	0.28	0.28	0.28	0.28
Belowground biomass	116	116	118	120

7.4 Data for Table T7

FRA 2010 category	Biomass (million metric tonnes oven-dry weight)							
	Forest				Other wooded land			
	1990	2000	2005	2010	1990	2000	2005	2010
Above-ground biomass	413	414	422	429	n.a.	n.a.	n.a.	n.a.
Below-ground biomass	116	116	118	120	n.a.	n.a.	n.a.	n.a.
Dead wood	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
TOTAL	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

7.5 Comments to Table T7

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Above-ground biomass		
Below-ground biomass		
Dead wood		

Other general comments to the table

8 Table T8 – Carbon stock

8.1 FRA 2010 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 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	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 the minimum diameter for dead wood (e.g. 10 cm), lying dead in various states of decomposition above the mineral or organic soil.
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.

8.2 National data

8.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
FAO. 2008. Guidelines for Country Reporting to FRA 2005. Global Forest Resources Assessment 2010				Carbon conversion factor of 0.47

8.2.2 Original data

No original data on carbon were available, so the carbon conversion factor of 0.47 recommended in the FRA guidelines has been applied to the biomass as coming from table 7.

8.3 Analysis and processing of national data

Carbon in litter has been estimated using table 5.9 of Appendix 5 of the FRA 2010 Guidelines considering a default value of 2.8t/ha.

8.4 Data for Table T8

FRA 2010 Category	Carbon (Million metric tonnes)							
	Forest				Other wooded land			
	1990	2000	2005	2010	1990	2000	2005	2010
Carbon in above-ground biomass	194.1	194.6	198.3	201.6	n.a.	n.a.	n.a.	n.a.
Carbon in below-ground biomass	54.5	54.5	55.5	56.4	n.a.	n.a.	n.a.	n.a.
Sub-total: Living biomass	248.6	249.1	253.8	258.0	n.a.	n.a.	n.a.	n.a.
Carbon in dead wood	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Carbon in litter	31	31	31	31	n.a.	n.a.	n.a.	n.a.
Sub-total: Dead wood and litter	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Soil carbon	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
TOTAL	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Soil depth (cm) used for soil carbon estimates	
--	--

8.5 Comments to Table T8

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Carbon in above-ground biomass		
Carbon in below-ground biomass		
Carbon in dead wood		
Carbon in litter		
Soil carbon		

Other general comments to the table

9 Table T9 – Forest fires

9.1 FRA 2010 Categories and definitions

Category	Definition
Number of fires	Average number of vegetation fires per year in the country.
Area affected by fire	Average area affected by vegetation fires per year in the country.
Vegetation fire (supplementary term)	Any vegetation fire regardless of ignition source, damage or benefit.
Wildfire	Any unplanned and/or uncontrolled vegetation fire.
Planned fire	A vegetation fire regardless of ignition source that burns according to management objectives and requires limited or no suppression action.

9.2 National data

9.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Conservation and protection Programme of Natural Resources 1989-2003 .	M	Disturbance by fire, insects, disease	1990	
Integrated Programme on Conservation and Protection of Natural Resources in Iran-	M	Disturbance by fire, insects, diseases	2002	The information has gathered from Conservation and Protection Bureau of FRWO , formal statistics exist at FRWO and main finding of some researches
Country Report to International conference of Forest fire Management	H	Area , Number , Average area	2003	
Conservation and protection Criteria and Indicators for SFM	M	Criteria: biodiversity, Environmental Health, Economic criteria	2003	
Conservation and protection Programme of Natural Resources	H to M		1989-2003	The programme was conducted cross the country

9.2.2 Classification and definitions

National class	Definition
Natural factors	Factors making unexpected disturbances by insect pests, diseases, wild fire, drought, flood and so on.
Human factors	Factors making disturbances by human activities such as fire, illegal cutting, overgrazing and so on
Conservative Criteria	To decrease or to prevent natural resources degradation
Protective Criteria	To increase efficiency conservative measurements

9.2.3 Original data

Average annual area affected (hectares)

	1988	1989	1990	1991	1992	Average 1988-1992
Disturbance by fire	612	408	1133	289	3924	1273

	1998	1999	2000	2001	2002	Average 1998-2002
Disturbance by fire	13167	7036	2155	3184	6789	6 466

Average annual area affected (hectares)

	1990	2000
Disturbance by fire	1 273	6 466

9.3 Data for Table T9

Table 9a

FRA 2010 category	Annual average for 5-year period					
	1990		2000		2005	
	1000 hectares	number of fires	1000 hectares	number of fires	1000 hectares	number of fires
Total land area affected by fire	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
... of which on forest	1.3	n.a.	6.5	n.a.	n.a.	n.a.
... of which on other wooded land	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
... of which on other land						

Table 9b

FRA 2010 category	Proportion of forest area affected by fire (%)		
	1990	2000	2005
Wildfire			
Planned fire			

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

9.4 Comments to Table T9

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Area affected by fire		
Number of fires		
Wildfire / planned fire		

Other general comments to the table

More than 99% of fires in the country are surface fires and are not reported as deforestation or forest degradation. This table has been filled based on the national forest definition (forest with more than 5% coverage) so it includes data for OWL.

10 Table T10 – Other disturbances affecting forest health and vitality

10.1 FRA 2010 Categories and definitions

Term	Definition
Disturbance	Damage caused by any factor (biotic or abiotic) that adversely affects the vigour and productivity of the forest and which is not a direct result of human activities.
Invasive species	Species that are non-native to a particular ecosystem and whose introduction and spread cause, or are likely to cause, socio-cultural, economic or environmental harm or harm to human health.
Category	Definition
Disturbance by insects	Disturbance caused by insect pests.
Disturbance by diseases	Disturbance caused by diseases attributable to pathogens, such as bacteria, fungi, phytoplasma or virus.
Disturbance by other biotic agents	Disturbance caused by biotic agents other than insects or diseases, such as wildlife browsing, grazing, physical damage by animals, etc.
Disturbance caused by abiotic factors	Disturbances caused by abiotic factors, such as air pollution, snow, storm, drought, etc.

10.2 National data

10.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Conservation and protection Programme of Natural Resources 1989-2003 .	M	Disturbance by fire, insects, disease	1990	
Integrated Programme on Conservation and Protection of Natural Resources in Iran-	M	Disturbance by fire, insects, diseases	2002	The information has gathered from Conservation and Protection Bureau of FRWO , formal statistics exist at FRWO and main finding of some researches
Country Report to International conference of Forest fire Management	H	Area , Number , Average area	2003	
Conservation and protection Criteria and Indicators for SFM	M	Criteria: biodiversity, Environmental Health, Economic criteria	2003	
Conservation and protection Programme of Natural Resources	H to M		1989-2003	The programme was conducted cross the country

10.2.2 Classification and definitions

National class	Definition
Natural factors	Factors making unexpected disturbances by insect pests, diseases, wild fire, drought, flood and so on.
Human factors	Factors making disturbances by human activities such as fire, illegal cutting, overgrazing and so on
Conservative Criteria	To decrease or to prevent natural resources degradation
Protective Criteria	To increase efficiency conservative measurements

10.2.3 Original data

Average annual area affected (hectares)

	1988	1989	1990	1991	1992	Average 1988-1992
Disturbance by insects and diseases	21761	21990	67716	263162	178442	132 828

The figures have been used for table 8-5 are 5-year average area.

	1998	1999	2000	2001	2002	Average 1998-2002
Disturbance by insects and diseases	165219	145755	35437	104923	330394	156 346

Average annual area affected (hectares)

	1990	2000
Disturbance by insects and diseases	132 828	156 346

10.3 Data for Table T10

Table 10a – Disturbances

FRA 2010 category	Affected forest area (1000 hectares)		
	1990	2000	2005
Disturbance by insects	133	156	n.a.
Disturbance by diseases	n.a.	n.a.	n.a.
Disturbance by other biotic agents	n.a.	n.a.	n.a.
Disturbance caused by abiotic factors	n.a.	n.a.	n.a.
Total area affected by disturbances	n.a.	n.a.	n.a.

Notes: 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.

The total area affected by disturbances is not necessarily the sum of the individual disturbances as these may be overlapping.

Table 10b – Major outbreaks of insects and diseases affecting forest health and vitality

Description / name	Tree species or genera affected (scientific name)	Year(s) of latest outbreak	Area affected (1000 hectares)	If cyclic, approx. cycle (years)

Table 10c – Area of forest affected by woody invasive species

Scientific name of woody invasive species	Forest area affected 2005 (1000 hectares)
Total forest area affected by woody invasive species	

10.4 Comments to Table T10

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Disturbance by insects	The breakdown between insects and disease was not possible	
Disturbance by diseases	Included under disturbance by insects.	
Disturbance by other biotic agents		
Disturbance caused by abiotic factors		
Major outbreaks		
Invasive species		

Other general comments to the table
Figures refer to the total of insects and diseases together.

11 Table T11 – Wood removals and value of removals

11.1 FRA 2010 Categories and definitions

Category	Definition
Industrial roundwood removals	The wood removed (volume of roundwood over bark) for production of goods and 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
Plan & Programme Bureau- FRWO	H	-	2004	-

11.2.2 Classification and definitions

National class	Definition
Industrial wood removal	It corresponds the FRA definition
Woodfuel removal	It corresponds the FRA definition

11.2.3 Original data

Table A: industrial wood removal – Iran

	Industrial wood removal-class1/ CM	Industrial wood removal-class2/CM	Industrial wood removal-class3/CM	Industrial wood removal-class4/CM	Industrial wood removal-class5/CM	Industrial wood removal-class6/CM
1988	265915	95991	70022	22862	187061	465320
1989	266550	110957	78368	20953	194310	518192
1990	266975	94635	74382	17586	206766	500546
1991	319977	97437	75254	20079	217120	718786
1992	323949	107350	79498	17839	212195	634975

Note: Class 1 to 6 refer to national terms which the country uses for different industrial wood removal in cubic meter.

Table A: industrial wood removal – Iran

	Industrial wood removal-class1/ CM	Industrial wood removal-class2/CM	Industrial wood removal-class3/CM	Industrial wood removal-class4/CM	Industrial wood removal-class5/CM	Industrial wood removal-class6/CM
1998	341176	79320	49646	19569	250244	559871

1999	310031	64500	32062	17433	238775	493291
2000	315199	73475	28811	16322	237330	493212
2001	325799	61757	25071	17336	225406	501291
2002	315945	46361	19455	11496	223252	382672

11.3 Analysis and processing of national data

11.3.1 Estimation and forecasting

Five years average was estimated using the above figures. It is assumed that the figures refers to over bark volume.

11.4 Data for Table T11

FRA 2010 Category	Industrial roundwood removals			Woodfuel removals		
	1990	2000	2005	1990	2000	2005
Total volume (1000 m ³ o.b.)	1256	2050	2448	425	55	20
... of which from forest						
Unit value (local currency / m ³ o.b.)	18650	413940	417522	1380	79709	80040
Total value (1000 local currency)	23424400	848577000	1022093856	586500	4383995	1600800

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	Rails	Rails	Rails

11.5 Comments to Table T11

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Total volume of industrial roundwood removals	Illegal utilization is excluded (local utilization for rural consumption)	
Total volume of woodfuel removals		
Unit value	The prices of goods were under the control of the Government in the year 1990 while the prices are based on the open market procedure since 2000.	One USD Dollar value 800 Rails in year 1990, 8000 Rails in year 2000 and 8700 Rails in year 2005.
Total value		

Other general comments to the table

This table includes only the statistics related to Caspian Forest. However, the growing stock of Caspian forest represents approximately 80% of the total growing stock in the country.

12 Table T12 – Non-wood forest products removals and value of removals

12.1 FRA 2010 Categories and definitions

Term	Definition
Non-wood forest product (NWFP)	Goods derived from forests that are tangible and physical objects of biological origin other than wood.
Value of NWFP removals	For the purpose of this table, value is defined as the market value at the site of collection or forest border.

NWFP categories

Category
<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. Wild meat
13. Raw material for medicine
14. Raw material for colorants
15. Other edible animal products
16. Other non-edible animal products

12.2 National data

12.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Out of North Forest Bureau - FRWO	M	Non-Wood Forest Products	2003	-

12.2.2 Classification and definitions

National class	Definition
Food	It corresponds with FRA
Raw material for medicine and aromatic products	It corresponds with FRA
Raw material for utensils, handicrafts & construction	It corresponds with FRA
Exudates	It corresponds with FRA

12.2.3 Original data

FRA 2005 Categories	Scale factor	Unit	NWFP removal		
			1990	2000	2003
<u>Plant products / raw material</u>					
1. Food		Kg	-	48434	710
2. Fodder		-	-	-	-
3. Raw material for medicine and aromatic products		Kg	-	30262 *	6559
4. Raw material for colorants and dyes		-	-	-	-
5. Raw material for utensils, handicrafts & construction		Kg	-	750**	-
6. Ornamental plants		-	-	-	-
7. Exudates		Kg	421373	547782	84784

Food Includes nuts of *Pistachia* sp., *Juglans* sp., etc...

12.3 Analysis and processing of national data

12.3.1 Estimation and forecasting

Figures from 2003 have been used for reporting year 2005.

12.4 Data for Table T12

Rank	Name of product	Key species	Unit	NWFP removals 2005		NWFP category
				Quantity	Value (1000 local currency)	
1 st	Food		Kg	710	1950	1
2 nd	Raw material for medicine		Kg	6559	7990	3
3 rd	Exudates		Kg	84784	4667002	7
4 th						
5 th						
6 th						
7 th						
8 th						
9 th						
10 th						
All other plant products						
All other animal products						
TOTAL						

	2005
Name of local currency	

12.5 Comments to Table T12

Variable / category	Comments related to data, definitions, etc.
10 most important products	
Other plant products	
Other animal products	
Value by product	
Total value	1 USD Dollar value 800 Rails in year 1990, 8000 Rails in year 2000 and 8700 Rails in year 2005.

Other general comments to the table
The statistics in these tables are related to legal utilization of NWFP, not illegal use

13 Table T13 – Employment

13.1 FRA 2010 Categories and definitions

Category	Definition
Full-time equivalents (FTE)	A measurement equal to one person working full-time during a specified reference period.
Employment	Includes all persons in paid employment or self-employment.
Paid employment	Persons who during a specified reference period performed some work for <u>wage or salary</u> in cash or in kind.
Self-employment	Persons who during a specified reference period performed some work for <u>profit or family gain</u> in cash or in kind (e.g. employers, own-account workers, members of producers' cooperatives, contributing family workers).

13.2 National data

13.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Plan & Programme Bureau - FRWO	H	Person years	2004	

13.2.2 Classification and definitions

National class	Definition
Primary production of goods	It corresponds the FRA definition
Provision of services	It corresponds the FRA definition
Unspecified forestry activities	It corresponds the FRA definition

13.2.3 Original data

Employment/ 1000 persons- year		
National class/ person year	1990	2000
Conservation and Protection Plan	3.229	3.307
Land Cadastral & Demarcation	0.5	0.5
Out of North Forest Management Plan	-	5.2
North Forest Integrated Management Plan	0.8	1.2
North Forest Utilization Plan	12	10
Afforestation, Reforestation, seedling production and maintenance	50	70
Watershed Management Plans	4	5.6
Employment in FRWO and affiliated offices	13.950	11.250

13.3 Analysis and processing of national data

13.3.1 Reclassification into FRA 2010 categories

National class	FRA Classes
Conservation and Protection Plan=	Provision of services
Land Cadastral & Demarcation=	Unspecified forestry activities
Out of North Forest Management Plan=	Primary production of goods
North Forest Integrated Management Plan =	Primary production of goods
North Forest Utilization Plan =	Primary production of goods
Afforestation , Reforestation, seedling production and maintenance=	Primary production of goods
Watershed Management Plans=	Unspecified forestry activities
Employment in FRWO and affiliated offices=	Provision of services

13.4 Data for Table T13

FRA 2010 Category	Employment (1000 years FTE)		
	1990	2000	2005
Employment in primary production of goods	62.8	86.4	n.a.
...of which paid employment	62.8	86.4	n.a.
...of which self-employment			
Employment in management of protected areas	n.a.	n.a.	n.a.

13.5 Comments to Table T13

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Employment in primary production of goods		
Paid employment / self-employment		
Employment in management of protected areas		

Other general comments to the table

These statistics include the number of people who are employed for activities directly and indirectly related to forestry and watershed management, protection and conservation of natural resources activities which can not be separated exactly. It excludes the number of persons who are employed in Forest Advisory Institutes.

14 Table T14 – Policy and legal framework

14.1 FRA 2010 Categories and definitions

Term	Definition
Forest policy	A set of orientations and principles of actions adopted by public authorities in harmony with national socio-economic and environmental policies in a given country to guide future decisions in relation to the management, use and conservation of forest and tree resources for the benefit of society.
Forest policy statement	A document that describes the objectives, priorities and means for implementation of the forest policy.
National forest programme (nfp)	A generic expression that refers to a wide range of approaches towards forest policy formulation, planning and implementation at national and sub-national levels. The national forest programme provides a framework and guidance for country-driven forest sector development with participation of all stakeholders and in consistence with policies of other sectors and international policies.
Law (Act or Code) on forest	A set of rules enacted by the legislative authority of a country regulating the access, management, conservation and use of forest resources.

14.2 Data for Table T14

Indicate the existence of the following (2008)			
Forest policy statement with national scope	<input type="checkbox"/>	Yes	
	<input type="checkbox"/>	No	
If Yes above, provide:	Year of endorsement		
	Reference to document		
National forest programme (nfp)	<input checked="" type="checkbox"/>	Yes	
	<input type="checkbox"/>	No	
If Yes above, provide:	Name of nfp in country		
	Starting year	1996	
	Current status	<input type="checkbox"/>	In formulation
		<input checked="" type="checkbox"/>	In implementation
		<input type="checkbox"/>	Under revision
<input type="checkbox"/>		Process temporarily suspended	
Reference to document or web site			
Law (Act or Code) on forest with national scope	<input checked="" type="checkbox"/>	Yes, specific forest law exists	
	<input type="checkbox"/>	Yes, but rules on forests are incorporated in other (broader) legislation	
	<input type="checkbox"/>	No, forest issues are not regulated by national legislation	
If Yes above, provide:	Year of enactment	1967	
	Year of latest amendment	1997	
	Reference to document	Law on exploitation and protection of forestry and rangelands (<i>Official Gazette No. 6571, 31 August 1967</i>)	

In case the responsibility for forest policy- and/or forest law-making is decentralized, please indicate the existence of the following and explain in the comments below the table how the responsibility for forest policy- and law-making is organized in your country.	
Sub-national forest policy statements	Yes
	No
If Yes above, indicate the number of regions/states/provinces with forest policy statements	
Sub-national Laws (Acts or Codes) on forest	Yes
	No
If Yes above, indicate the number of regions/states/provinces with Laws on forests	

14.3 Comments to Table T14

Variable / category	Comments related to data, definitions, etc.
Forest policy statement with national scope	
National forest programme (nfp)	
Law (Act or Code) on forest with national scope	
Sub-national forest policy statements	
Sub-national Laws (Acts or Codes) on forest	

Other general comments to the table
<p>Forest policy in Iran has never been rigidly defined. The permanent modification of the forest sector and the formation of forest policy have taken on specific character only within the past fifty years. The sector has been primarily preoccupied with the northern forests because of their importance to the economy. Before land reform, the northern forestlands belonged to “<i>khans</i>” and other large estates included royal forests. In 1962, ownership of the royal forests was transferred to the government and with nationalisation of forests and rangelands; all forests were eventually consigned to government supervision.</p> <p>The execution of industrial forest projects accompanied by traditional exploitation by the rural community has widely destroyed the northern forests. Even the enormous investments by the forest industry during the past twenty years have not led to a policy of forest conservation because of the insufficient attention given to the specific socio-economic problems of the rural population.</p> <p>In spite of these existing obstacles, the forest sector has prepared projects for nearly one million hectares of commercial forests. The projects include several technical aspects, such as forest inventory, silviculture, afforestation and construction of roads and transport of wood. Simultaneous with the implementation of these projects, consideration has been given to the problem of destruction of the natural forests and execution of new plantation projects. By 1990, forest projects involved nearly 700,000 hectares of commercial forest.</p> <p>Iran is relatively poor in terms of available forest area, and thus vulnerable to rapid destruction. One of the problems threatening Iranian forests is illegal logging, over and above the logging permits issued by General Office of Natural Resources. Rural people who reside with their livestock in the forests also threaten biodiversity assets. There have been relocation efforts, but they have not been completed. Another source of forest destruction is the large number of fires. (http://www.cbd.int/doc/world/ir/ir-nr-fe-en.doc)</p>

15 Table T15 – Institutional framework

15.1 FRA 2010 Categories and definitions

Term	Definition
Minister responsible for forest policy-making	Minister holding the main responsibility for forest issues and the formulation of the forest policy.
Head of Forestry	The Head of Forestry is the Government Officer responsible for implementing the mandate of the public administration related to forests.
Level of subordination	Number of administrative levels between the Head of Forestry and the Minister.
University degree	Qualification provided by University after a minimum of 3 years of post secondary education.

15.2 Data for Table T15

Table 15a – Institutions

FRA 2010 Category	2008	
Minister responsible for forest policy formulation : please provide full title	Ministry of Agriculture	
Level of subordination of Head of Forestry within the Ministry		1 st level subordination to Minister
		2 nd level subordination to Minister
		3 rd level subordination to Minister
		4 th or lower level subordination to Minister
Other public forest agencies at national level		
Institution(s) responsible for forest law enforcement		

Table 15b – Human resources

FRA 2010 Category	Human resources within public forest institutions					
	2000		2005		2008	
	Number	%Female	Number	%Female	Number	%Female
Total staff						
...of which with university degree or equivalent						

Notes:

1. Includes human resources within public forest institutions at sub-national level
2. Excludes people employed in State-owned enterprises, education and research, as well as temporary / seasonal workers.

15.3 Comments to Table T15

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Minister responsible for forest policy formulation		
Level of subordination of Head of Forestry within the Ministry		
Other public forest agencies at national level		
Institution(s) responsible for forest law enforcement		
Human resources within public forest institutions		

Other general comments to the table

16 Table T16 – Education and research

No data available to complete this reporting table.

17 Table T17 – Public revenue collection and expenditure

No data available to complete this reporting table.