

GLOBAL FOREST RESOURCES ASSESSMENT 2015

COUNTRY REPORT

**Iran (Islamic Republic of)**

Rome, 2014

FAO, at the request of its member countries, regularly monitors the world's forests and their management and uses through the Global Forest Resources Assessment (FRA). This country report is prepared as a contribution to the FAO publication, the Global Forest Resources Assessment 2015 (FRA 2015).

The content and the structure are in accordance with the recommendations and guidelines given by FAO in the document Guide for country reporting for FRA 2015 (<http://www.fao.org/3/a-au190e.pdf>). These reports were submitted to FAO as official government documents.

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### Introductory Text

Place an introductory text on the content of this report

I.R. Iran as a member country of FAO, is very *grateful that carried out* the Global Forest Resources Assessment processes as an important task in cooperation with *Forestry Department of FAO, member countries and other inside related organizations* .

FRA country Report represents major efforts toward Sustainable forest management (SFM) which has a important role for sustainable development of country.

FRA 2015 report tables are compiled mostly base on available information such as forest inventory documents and national land cover map and forest maps had been prepared by Forest, Range and Watershed Organization (FRWO). It is very important to use approved information as the source data and in this regard staffs of FRWO, Department of Environment (DOE), universities, Forest Research Institute and private consultant had contributions to fill the tables and hereby we appreciate all of them for their kind partnership.

National country report of I.R. Iran for FRA 2015 isnot fully in accordance with guidelines and working papers of Forest Resources Assessment Programme. F.R.W.O is interesting to have a joint project for forest inventory and assessment by FRA working group to provide update and precise data related to tables as much as possible hopefully for FRA 2020.

Khalilpour S.A.

FRA National Correspondent

FRWO, I.R.IRAN

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**FRA National Correspondent**

**FRWO, I.R.IRAN**

Desk Study?

Check "yes" if this survey is a Desk Study, "no" otherwise

Desk Study?	
	no

## 1. What is the area of forest and other wooded land and how has it changed over time?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 1.1 Categories and definitions

Category	Definition
Forest	Land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 percent or trees able to reach these thresholds in situ. It does not include land that is predominantly under agricultural or urban land use.
Other wooded land	Land not classified as "Forest" spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of 5-10 percent or trees able to reach these thresholds ; 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".
...of which with tree cover ( <i>sub-category</i> )	Land considered as "Other land", that is predominantly agricultural or urban lands use and has patches of tree cover that span 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. It includes bothe forest and non-forest tree species.
Inland water bodies	Inland water bodies generally include major rivers, lakes and water reservoirs.
Forest expansion	Expansion of forest on land that, until then, was not defined as forest.
...of which afforestation ( <i>sub-category</i> )	Establishment of forest through planting and/or deliberate seeding on land that, until then, was not defined as forest.
...of which natural expansion of forest ( <i>sub-category</i> )	Expansion of forests through natural succession on land that, until then, was under another land use (e.g. forest succession on land previously used for agriculture).
Deforestation	The conversion of forest to other land use or the longterm reduction of the tree canopy cover below the minimum 10 percent threshold.
...of which human induced ( <i>sub-category</i> )	Human induced conversion of forest to other land use or the permanent reduction of the tree canopy cover below the minimum 10 percent threshold.
Reforestation	Natural regeneration or re-establishment of forest through planting and/or deliberate seeding on land already in forest land use.
...of which artificial reforestation ( <i>sub-category</i> )	Re-establishment of forest through planting and/or deliberate seeding on land already in forest land use.

### 1.2 National data

#### 1.2.1 Data sources

References to sources of information	Variables	Years	Additional comments
--------------------------------------	-----------	-------	---------------------

1	Engineering Technical Bureau of FRWO	Forest area	2000	This is an national map which excluding fragmented Forests with around 0.5 ha. New project is providing maps with 1:25000 to detect those forests area for coming year 2020
2	Engineering Technical Bureau of FRWO	Forest 10 percent canopy cover	2000	aerial photo 1:40000 by using orto photo interpretation with field ground truth data
3	Engineering Technical Bureau of FRWO	Forest 10 percent canopy cover	2005	aerial photo 1:40000 by using photo grametry devices with field ground truth data is a project under operation
4	N/A	N/A	N/A	N/A

### 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 in situ. It does not include land that is predominantly under agricultural or urban land use.
N/A	N/A
N/A	N/A
N/A	N/A

### 1.2.3 Original data

	classification based on vegetation cover map 1/25000 in year2000	Percentage Cover- %	Area/ 1000 ha.
Dry land Forests	First class	100-50	843.495
	Second Class	25-50	2773.204
	Third Class1	10-25	4175.553
	Third Class2	5-10	3627.0826
	Mangrove Forest	25-50	19.234
Caspian Forests	Caspian Forest	50-100	1939.494
	Planted forest	-	941

<b>TOTAL</b>			14319.06
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**Table B: Forest Area with more than 10 % tree coverage**

	Forest Area / 1000ha.
Dry land Forests	7792.252
North Forest	1939.494
Planted forest	941
Mangrove Forest	19.234
<b>TOTAL</b>	10691.98

### 1.3 Analysis and processing of national data

#### 1.3.1 Adjustment

<p><b>Forest area</b></p> <p>The total land area and inland water is not calibrated according to the FAO STAT to keep the forest area constant based on the land cover and forest maps. Country area and land area could be calibrated to the FAO STAT.</p>
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#### 1.3.2 Estimation and forecasting

<b>Forest area</b>	
<b>Forest</b>	<b>Area/ 000ha</b>
<b>(FRA2015 Classification)</b>	
10%<	10691.98
<b>Forest</b>	<b>Area/000ha</b>
<b>(National Class)</b>	



5%<	14319.06
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### 1.3.3 Reclassification

## 1.4 Data

Table 1a













Categories		Area (000 hectares)				
		1990	2000	2005	2010	2015
	Forest	9076.058	9325.656	10691.98	10691.98	10691.98
	Other wooded land	5340	5340	5340	5340	3627.0826
	Other land	170390.34	170140.74	168774.41	168774.41	170487.337
	... of which with tree cover	83	83	83	83	83
	Inland water bodies	2589.5	2589.5	2589.5	2589.5	2589.5
	TOTAL	187395.90	187395.90	187395.89	187395.89	187395.90

Table 1b

Categories		Annual forest establishment / loss (000 hectares per year)				...of which of introduced species (000 hectares per year)			
		1990	2000	2005	2010	1990	2000	2005	2010
	Forest expansion	N/A	1.913	3.387	1.921	N/A	N/A	N/A	N/A
	... of which afforestation	N/A	1.913	3.387	1.921	N/A	N/A	N/A	N/A
	... of which natural expansion of forest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Deforestation	N/A	N/A	2.776	13.68	N/A	N/A	N/A	N/A
	... of which human induced	N/A	N/A	2.776	13.68	N/A	N/A	N/A	N/A
	Reforestation	86.46	129.105	47.873	37.777	N/A	N/A	N/A	N/A
	... of which artificial	N/A	51.394	47.873	37.777	N/A	N/A	N/A	N/A

Tiers

Category	Tier for status	Tier for reported trend
Forest	Tier 2	Tier 2
Other wooded land	Tier 2	Tier 1
Forest expansion	Tier 2	Tier 1
Deforestation	Tier 1	Tier 1
Reforestation	Tier 2	Tier 1

## Tier criteria

Category	Tier for status	Tier for reported trend
<ul style="list-style-type: none"> <li>• Forest</li> <li>• Other wooded land</li> <li>• Afforestation</li> <li>• Reforestation</li> <li>• Natural expansion of forest</li> <li>• Deforestation</li> </ul>	<p><b>Tier 3</b> : Data sources: Either recent (less than 10 years ago) National Forest Inventory or remote sensing, with ground truthing, or programme for repeated compatible NFIs</p> <p><b>Tier 2</b> : Data sources: Full cover mapping / remote sensing or old NFI (more than 10 years ago)</p> <p><b>Tier 1</b> : Other</p>	<p><b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status)</p> <p><b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p><b>Tier 1</b> : Other</p>

## 1.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trends
Forest	The figures in the table entitled original data (Table A and Table B) are based on vegetation cover 1/250000 in year 2000. The method used for preparing this map is satellite data (1998) interpretation plus expertise views.	There is no information available for estimating forest changes so the original data is used for all reporting years. There is not regular national forest inventory, except for hyrcanian forest
Other wooded land	Land with tree more than 1 percent is included because has potential to reach above 5 percent.	There is not for other wooded land changes any national inventory. Around 600 000 ha Forest are used as agriculture land simultaneously..
Other land	The country area is approved by the Army's Geography organization	N/A
Other land with tree cover	Trees plantation around industries and green belt around the cities and roads are included.	N/A
Inland water bodies	Based on water bodies situation in 2000	N/A
Forest expansion	Is based on forest plantation	N/A
Deforestation	A high resolution time series data on forest area is needed.	N/A
Reforestation	Is mostly subjected on hyrcanian forest habitate.	N/A

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<b>Other general comments to the table</b>
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N/A
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## 2. What is the area of natural and planted forest and how has it changed over time?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 2.1 Categories and definitions

Term	Definition
Naturally regenerated forest	Forest predominantly composed of trees established through natural regeneration.
Naturalized introduced species	Other naturally regenerated forest where the tree species are predominantly non-native and do not need human help to reproduce/maintain populations over time.
Introduced species	A species, subspecies or lower taxon occurring <i>outside</i> 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).
Category	Definition
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.
...of which of introduced species ( <i>sub-category</i> )	Other naturally regenerated forest where the trees are predominantly of introduced species.
...of which naturalized ( <i>sub-sub category</i> )	Other naturally regenerated forest where the trees are predominantly of naturalized introduced species.
Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
...of which of introduced species ( <i>sub-category</i> )	Planted forest where the planted/seeded trees are predominantly of introduced species.
Mangroves	Area of forest and other wooded land with mangrove vegetation.
...of which planted ( <i>sub-category</i> )	Mangroves predominantly composed of trees established through planting.

### 2.2 National data

#### 2.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Engineering Technical Bureau of FRWO	Mapping forest area	2000	Land cover map 1:250000, tree cover are included
2	Forest Resources Management Bureau of FRWO	Mapping forest area	2011	forest map 1:25000
3	FAO Working paper	N/A	2004	Data for mangroves come from the FAO Working paper Mangroves of Asia

4	N/A	N/A	N/A	N/A
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## 2.2.2 Classification and definitions

National class	Definition
Planted forest	Forest of natural or induced species , established through planting and/or deliberate seeding by human activity
N/A	N/A
N/A	N/A
N/A	N/A

## 2.2.3 Original data

FRA 2005 Categories	Area (1000 hectares)	Reference year	Source
<b>Primary</b>	<b>200</b>	<b>2004</b>	<b>Expert estimate</b>
<b>Other naturally regenerated forest</b>	<b>9531.746</b>	<b>2005</b>	<b>Land cover map</b>
<b>Planted forest</b>	<b>941</b>	<b>2005</b>	<b>Land cover map</b>
<b>Planted forest of which with native species in the Caspian Forests</b>	<b>198</b>	<b>2005</b>	<b>Land cover map</b>
<b>Planted Forests of introduced species and conifers in the Caspian Forests and dry land forest</b>	<b>743</b>	<b>2005</b>	<b>Land cover map</b>
<b>Mangroves</b>	<b>19.234</b>	<b>2005</b>	<b>Land cover map</b>
<b>Mangroves area( 000 ha)</b>	<b>1994</b>	<b>1997</b>	
	20.700	19.234	

## 2.3 Analysis and processing of national data

### 2.3.1 Adjustment

No adjustment is done due to keep the information on their real surface area based on FRA definition. Primary Forest area is based on the expert estimation.

### 2.3.2 Estimation and forecasting







The same figures for primary forest and mangrove forest area due to lack of information have been considered valid for all years, except for mangroves area which is based on landcover map 1:250000.

### 2.3.3 Reclassification

Other naturally regenerated forest need to reclassify in to FRA definition and exclude planted forest as is in table 2a.

## 2.4 Data

Table 2a

Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Primary forest	200	200	200	200	200
	Other naturally regenerated forest	8360.382	8609.98	9550.98	9550.98	9550.98
	... of which of introduced species	100	100	100	100	100
	... of which naturalized	8260.382	8509.98	9450.98	9450.98	9450.98
	Planted forest	515.676	515.676	941	941	941
	... of which of introduced species	98.8	98.8	120.556	137.25	137.25

TOTAL	9076.06	9325.66	10691.98	10691.98	10691.98
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Table 2b

Primary forest converted to (000 ha)								
1990-2000			2000-2010			2010-2015		
Other natural regeneration	Planted	Other land	Other natural regeneration	Planted	Other land	Other natural regeneration	Planted	Other land
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 2c

Categories	Area (000 hectares)				
	1990	2000	2005	2010	2015
Mangroves (forest and OWL)	25.76	25.76	25.76	25.76	19.234
... of which planted	N/A	N/A	1.5	7.75	9.25

## Tiers

Category	Tier for status	Tier for reported trend
Primary forest	Tier 1	Tier 1
Other naturally regenerated forest	Tier 2	Tier 2
Planted forest	Tier 2	Tier 2
Mangroves	Tier 2	Tier 2

## Tier Criteria

Category	Tier for status	Tier for reported trend
Primary forest/Other naturally regenerated forest/Planted forest	<p><b>Tier 3</b> : Data sources: Recent (less than 10 years) National Forest Inventory or remote sensing with ground truthing or data provided by official agencies or programme for repeated compatible NFIs</p> <p><b>Tier 2</b> : Data sources: Full cover mapping/ remote sensing or old NFI (more than 10 years) <b>Tier 1</b> : Other</p>	<p><b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other</p>

## 2.5 Comments

Category	Comments related to data definitions etc	Comments on reported trend
Primary forest	200,000 hectares of Caspian forests in north of Iran	There is not any regular inventory

Other naturally regenerating forest	Five forest ecosystem region in country are included.primary forest and planted forest are excluded.	Naturally introduced species regenerated forest isnot easy separate from introduced species forest.
Planted forest	All tree plantation are included afforestation or reforestation .	It includes Plantations of native species in the Caspian Forests. The main objective of plantation is reforestation. Plantations in the Dry land 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).
Mangroves	Mangrove forests are very in restricted area in South of Iran .	N/A

**Other general comments to the table**

N/A



### 3. What are the stocks and growth rates of the forests and how have they changed?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

#### 3.1 Categories and definitions

Category	Definition
Growing stock	Volume over bark of all living trees with a minimum diameter of 10 cm at breast height (or above buttress if these are higher). Includes the stem from ground level up to a top diameter of 0 cm, excluding branches.
Net Annual Increment (NAI)	Average annual volume of gross increment over the given reference period less that of natural losses on all trees, measured to minimum diameters as defined for "Growing stock".
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 2 mm 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.
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 soil depth of 30 cm.

#### 3.2 National data

##### 3.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Technical Bureau - FRWO	Growing stock	1987	(For Caspian Forests)4th national periodic inventory based on temperate sample plots- field work during 1985-1988,published in1990
2	Forest Technical Bureau - FRWO	Growing Stock	1997	5th national periodic inventory based on permanent sample plots- field work during 1996-1998,published in 2000
3	Forest Technical Bureau - FRWO	Growing stock	1999	(For Dry land Forests)Not published

4	Forest Technical Bureau - FRWO	Forest Species	2000	N/A
5	FAO. 2008. Guidelines for Country Reporting to FRA 2005. Global Forest Resources Assessment 2010	N/A	2005	Biomass conversion and expansion factor (BCEF) and root-shoot ratio from Appendix 5 FRA guidelines. Carbon conversion factor of 0.47

### 3.2.2 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.
N/A	N/A
N/A	N/A
N/A	N/A

### 3.2.3 Original data

<p><b>Growing stock</b></p> <p><u>Caspian forests:</u></p> <p>According to the 4<sup>th</sup> national periodic inventory based on temporally sample plots during 1985-1988 the average growing stock is 210 cubic meters per hectare and forest area of the Caspian Forest was 1847886 ha while the average growing stock is 220 cubic meters per hectare for 1997 and forest area based on vegetation cover map scale 1:25000 is 1925167 ha .</p> <p><u>Dry land Forests:</u></p> <p>The most parts of the Dry land Forest are simple coppice, so measurement of the growing stock cannot be done easily. The growing stock in these forests varies between 5 to 40 cubic meters per hectare. <u>Average growing stock for these forests is estimated 12 cubic meters per hectare.</u></p> <p><u>Growing stock composition:</u></p> <p>Only growing stock data by species for Caspian forests from 1987 and 1997 are available and presented in this table.</p>
---

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
<b>TOTAL</b>	<b>404.87</b>	<b>406.53</b>

#### Biomass stock

No national data on biomass were available so IPCC default values are used.

#### Carbon stock

No original data on carbon were available, so the carbon conversion factor recommended in the FRA guidelines 0.47 are used.

### 3.3 Analysis and processing of national data

#### 3.3.1 Adjustment

See 1.3.1 description.

## 3.3.2 Estimation and forecasting

**Growing stock****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 increasing about 1 cubic meter per hectare per year.

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

FRA Categories	Volume (million cubic meters over bark)			
	Growing stock	Forest		
<u>Caspian Forests</u>	1990	2000	2005	2010
	516	517	527	469.4
<u>Dry land Forests</u>	Volume (million cubic meters over bark)			
	Forest			
	1990	2000	2005	2010

**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.

### **Biomass stock**

#### Above ground biomass:

Based on FRA guidelines the following assumptions and calculations have been made:

From appendix 5, table 5.4 of the FRA guidelines by considering sub tropical ecological zone a growing stock comprised between 41 and 80 m<sup>3</sup>/ha and the biomass conversion and expansion factor (BCEF) of 0.8 have been applied .

#### Below ground biomass :

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

	<b>1990</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>
Growing stock (million m <sup>3</sup> )	516	517	527	469.4
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

### **Carbon stock**

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.

## 3.3.3 Reclassification

Reclassification into FRA 2015 categories not to be necessary.

## 3.4 Data

Table 3a

Category		Growing stock volume (million m <sup>3</sup> over bark)									
		Forest					Other wooded land				
		1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
CFRQ	Total growing stock	516	517	527	469.4	393.778	N/A	N/A	N/A	N/A	N/A
CFRQ	... of which coniferous	51.6	51.7	52.7	46.94	39.3778	N/A	N/A	N/A	N/A	N/A
CFRQ	... of which broadleaved	464.4	465.3	474.3	422.46	354.4	N/A	N/A	N/A	N/A	N/A

Table 3b

Category/Species name			Growing stock in forest (million cubic meters)			
Rank	Scientific name	Common name	1990	2000	2005	2010
1 st	<i>Carpinus betulus</i>	N/A	126.2	125.3	127.7	150
2 nd	<i>Fagus orientalis</i>	N/A	132.5	123.3	125.6	154.5
3 rd	<i>Alnus</i> sp.	N/A	30.5	35.5	36.2	36.7
4 th	<i>Quercus castaneafolia</i>	N/A	34.2	36.4	37.1	30.2
5 th	<i>Acer</i> sp.	N/A	30.3	27.4	27.9	31.5
6 th	<i>Pavotia persica</i>	N/A	15.8	21.3	21.7	23
7 th	<i>Tillia</i> sp	N/A	11.5	10.6	10.8	9.2
8 th	<i>Diospyrus lotus</i>	N/A	6	9.9	10.1	13.8
9 th	<i>Fraxinus</i> sp.	N/A	1.2	1.4	1.4	1.5
10 th	N/A	N/A	0	0	0	0
Remaining			127.9	126.1	128.5	19

TOTAL			516.10	517.20	527.00	469.40
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**THE PRE-FILLED VALUES FOR GROWING STOCK REFER TO THE FOLLOWING THRESHOLD VALUES (SEE TABLE BELOW)**

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

**PLEASE NOTE THAT THE DEFINITION OF GROWING STOCK HAS CHANGED AND SHOULD BE REPORTED AS GROWING STOCK DBH 10 CM INCLUDING THE STEM FROM GROUND LEVEL UP TO A DIAMETER OF 0 CM, EXCLUDING BRANCHES.**

Table 3c














Category		Net annual increment (m <sup>3</sup> per hectare and year)				
		Forest				
		1990	2000	2005	2010	2015
	Net annual increment	0.145	0.14	0.14	0.15	0.15
	... of which coniferous	N/A	N/A	N/A	N/A	N/A
	... of which broadleaved	N/A	N/A	N/A	N/A	N/A

Table 3d

Category		Biomass (million metric tonnes oven-dry weight)									
		Forest					Other wooded land				
		1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
	Above ground biomass	413	414	422	429	275.64	N/A	N/A	N/A	N/A	N/A
	Below ground biomass	116	116	118	120	78.75	N/A	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	N/A	N/A

TOTAL	529.00	530.00	540.00	549.00	354.39	.00	.00	.00	.00	.00
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Table 3e

Category		Carbon (Million metric tonnes)									
		Forest					Other wooded land				
		1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
	Carbon in above ground biomass	194.11	194.58	198.34	201.63	129.5508	N/A	N/A	N/A	N/A	N/A
	Carbon in below ground biomass	54.52	54.52	55.46	56.4	37.0125	N/A	N/A	N/A	N/A	N/A
	<i>Subtotal Living biomass</i>	237.36	237.82	242.42	215.92	162.55	N/A	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	N/A	N/A
	Carbon in litter	31	31	31	31	27	N/A	N/A	N/A	N/A	N/A
	<i>Subtotal Dead wood and litter</i>	N/A	N/A	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	N/A	N/A
TOTAL		279.63	280.10	284.80	289.03	193.56	.00	.00	.00	.00	.00

## Tiers

Variable/category	Tier for status	Tier for trend
Total growing stock	Tier 1	Tier 1
Net annual increment	Tier 1	Tier 1
Above ground biomass	Tier 1	Tier 1
Below ground biomass	Tier 1	Tier 1
Dead wood	Tier 1	Tier 1
Carbon in above-ground biomass	Tier 1	Tier 1
Carbon in below ground biomass	Tier 1	Tier 1



Carbon in dead wood and litter	Tier 1	Tier 1
Soil carbon	Tier 1	Tier 1

## Tier criteria

Category	Tier for status	Tier for reported trend
Total growing stock	Tier 3: Data sources Recent 10 years National Forest Inventory or remote sensing with ground truthing or programme for repeated compatible NFI 10 years Domestic volume functions Tier 2: Data sources/registers and statistics modelling or old NFI 10 years or partial field inventory Tier 1: Other data sources	Tier 3: Estimate based on repeated compatible tiers 3 (tier for status) Domestic growth functions Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 tier for status Tier 1: Other
Net annual increment	Tier 3: Scientifically tested national volume and growth functions Tier 2: Selection of volume and growth functions as relevant as possible Tier 1: Other	Tier 3: Confirmation/adjustment of functions used through scientific work Tier 2: Review work done to seek alternative functions Tier: 1 Other
Biomass	Tier 3: Country-specific national or sub-national biomass conversion expansion factors applied or other domestic or otherwise nationally relevant biomass studies Tier 2: Application of country specific national or sub-national biomass conversion factors from other country with similar climatic conditions and forest types Tier 1: International/regional default biomass expansion factors applied	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other
<ul style="list-style-type: none"> <li>• Carbon in above ground biomass</li> <li>• Carbon in below ground biomass</li> <li>• Carbon in dead wood and litter</li> <li>• Soil carbon</li> </ul>	Tier 3: Country-specific national or sub-national biomass conversion expansion factors applied Tier 2: Application of country specific national or sub-national biomass conversion factors form from other country with similar climatic conditions and forest types Tier 1: International/regional default biomass expansion factors applied	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other

## 3.5 Comments on growing stock biomass and carbon

Category	Comments related to data definitions etc	Comments on the reported trend
Total growing stock	This table includes just species of Caspian forest based on species as from table 3b.	N/A
Growing stock of broadleaved coniferous	Is not measured so excluded	N/A
Growing stock composition	This table includes just species of Caspian Forest. However, the growing stock of Caspian forest represents approximately 80% of the total growing stock in the country.	N/A
Net annual increment	Is not measured	N/A

Above-ground biomass	Isnot measured	N/A
Below-ground biomass	Isnot measured	N/A
Dead wood	Isnot measured	N/A
Carbon in above-ground biomass	Isnot measured	N/A
Carbon in below-ground biomass	Isnot measured	N/A
Carbon in dead wood	Isnot measured	N/A
Carbon in litter	Isnot measured	N/A
Soil carbon	Isnot measured	N/A

**Other general comments to the table**

N/A

## 4. What is the status of forest production and how has it changed over time?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 4.1 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.
Non wood forest product (NWFP)	Goods derived from forests that are tangible and physical objects of biological origin other than wood.
Commercial value of NWFP	For the purpose of this table, value is defined as the commercial market value at the forest gate.
Category	Definition
Production forest	Forest area designated primarily for production of wood, fibre, bio-energy and/or non-wood forest products.
Multiple use forest	Forest area designated for more than one purpose and where none of these alone is considered as the predominant designated function.
Total wood removals	The total of industrial round wood removals and woodfuel removals.
...of which woodfuel	The wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use.

### 4.2 National data

#### 4.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Resources Management Bureau of FRWO	Forest Resource map 1:25000 for North of Iran	1997	N/A
2	Forest Resources Management Bureau of FRWO	Forest Resource map 1:25000 for North of Iran	2011	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 4.2.2 Classification and definitions

National class	Definition
Production	In accordance with the FRA 2015 classification

Multiple purpose	In accordance with the FRA 2015 classification
N/A	N/A
N/A	N/A

#### 4.2.3 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 purposes.

### 4.3 Analysis and processing of national data

#### 4.3.1 Adjustment

See 1.3.1 description.

#### 4.3.2 Estimation and forecasting


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

#### 4.3.3 Reclassification

Reclassification into FRA 2015 categories not to be necessary.

### 4.4 Data

Table 4a

Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Production forest	1500	1500	1500	1500	1500


	Multiple use forest	0	0	0	0	0
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Table 4b

Rank	Name of product	Key species	Commercial value of NWFP removals 2010 (value 1000 local currency)	NWFP category
1 st	??????????	Anchusaitalica	7000000	3
2 nd	?????	Astragalussp	75000000	3
3 rd	????????????????	Ferulaassafoetida	49500000	1
4 th	?????	Thymuskotschyanus	19200000	3
5 th	???	Pistaciaatlantica	40000000	3
6 th	?????	Pistaciaatlantica	5400000	3
7 th	?????	Ferulagummosa	15000000	3
8 th	??????????	Glycyrrhizaglabra	1400000	3
9 th	??????????	Amygdaluscoparia	100000	1
10 th	?????	Alliumascalonicum	10800000	1
TOTAL			223400000.00	

2010	
Name of local currency	Iranian rial

Category
<b>Plant products / raw material</b>
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
<b>Animal products / raw material</b>
9 Living animals
10 Hides skins and trophies
11 Wild honey and beeswax
12 Wild meat
13 Raw material for medicine
14 Raw material for colorants
15 Other edible animal products
16 Other non-edible animal products

Table 4c Pre-filled data from FAOSTAT

Year	FRA 2015 category (1000 m <sup>3</sup> u.b.)	
	Total wood removals	...of which woodfuel
1990	1217	326
1991	1495	363
1992	1400	338
1993	1552	357
1994	1583	355
1995	1457	307
1996	1427	287
1997	1499	286
1998	1286	227
1999	1149	189
2000	1114	54
2001	1114	54
2002	710	103
2003	906	93

2004	820	77
2005	774	72
2006	794	65
2007	867	67
2008	886	67
2009	853	60
2010	750	53
2011	750	53

## Tiers

Category	Tier for status	Tier for reported trend
Production forest	Tier 1	Tier 1
Multiple use forest	Tier 1	Tier 1

## Tier Criteria

Category	Tier for status	Tier for reported trend
Production forest Multiple use forest	Tier 3: Updated including field verifications national forest maps including functions Tier 2: Forest maps older than 6 years including forest functions Tier 1: Other	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other

## 4.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Production forest	Based on wood production as main factor	N/A
Multiple use forest	Based on other conservative and socioeconomic factors	N/A
Total wood removals	N/A	N/A
Commercial value of NWFP	N/A	N/A

## Other general comments to the table

N/A
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## 5. How much forest area is managed for protection of soil and water and ecosystem services?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 5.1 Categories and definitions

Category	Definition
Protection of soil and water	Forest area designated or managed for protection of soil and water
...of which production of clean water ( <i>sub-category</i> )	Forest area primarily designated or managed for water production, where most human uses are excluded or heavily modified to protect water quality.
...of which coastal stabilization ( <i>sub-category</i> )	Forest area primarily designated or managed for coastal stabilization.
...of which desertification control ( <i>sub-category</i> )	Forest area primarily designated or managed for desertification control.
...of which avalanche control ( <i>sub-category</i> )	Forest area primarily designated or managed to prevent the development or impact of avalanches on human life assets or infrastructure.
...of which erosion, flood protection or reducing flood risk ( <i>sub-category</i> )	Forest area primarily designated or managed for protecting communities or assets from the impacts of erosion riparian floods and landslides or for providing flood plain services.
...of which other ( <i>sub-category</i> )	Forest area primarily designated or managed for other protective functions.
Ecosystem services, cultural or spiritual values	Forest area primarily designated or managed for selected ecosystem services or cultural or spiritual values.
...of which public recreation ( <i>sub-category</i> )	Forest area designated or managed for public recreation.
...of which carbon storage or sequestration ( <i>sub-category</i> )	Forest area designated or managed for carbon storage or sequestration.
...of which spiritual or cultural services ( <i>sub-category</i> )	Forest area designated or managed for spiritual or cultural services.
...of which other ( <i>sub-category</i> )	Forest area designated or managed for other ecosystem services.

### 5.2 National data

#### 5.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forestry technical Bureau of FRWO	projects Forestry plans	1990-2015	N/A



2	Forest Resources Management Bureau of FRWO	forest cover map 1:25000 for out of north Iran	2011	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

### 5.2.2 Classification and definitions

National class	Definition
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

### 5.2.3 Original data

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## 5.3 Analysis and processing of national data

### 5.3.1 Adjustment

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### 5.3.2 Estimation and forecasting


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### 5.3.3 Reclassification

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## 5.4 Data

Table 5a

Categories		Forest area (1000 hectares)				
		1990	2000	2005	2010	2015
	Protection of soil and water	7377.058	7626.656	8992.98	8992.98	8726.98

	... of which production of clean water	N/A	N/A	N/A	N/A	N/A
	... of which coastal stabilization	N/A	N/A	N/A	N/A	N/A
	... of which desertification control	N/A	N/A	N/A	N/A	N/A
	... of which avalanche control	N/A	N/A	N/A	N/A	N/A
	... of which erosion, flood protection or reducing flood risk	N/A	N/A	N/A	N/A	N/A
	... of which other (please specify in comments below the table)	N/A	N/A	N/A	N/A	N/A

**Other**

1934.494 (000 hectares)

Table 5b

Categories	Forest area (1000 hectares)				
	1990	2000	2005	2010	2015
Ecosystem services, cultural or spiritual values	46	46	46	46	46
...of which public recreation	N/A	N/A	N/A	N/A	N/A
...of which carbon storage or sequestration	N/A	N/A	N/A	N/A	N/A
...of which spiritual or cultural services	N/A	N/A	N/A	N/A	N/A
...of which other (please specify in comments below the table)	N/A	N/A	N/A	N/A	N/A

## Tiers

Category	Tier for reported trend	Tier for status
Protection of soil and water	Tier 1	Tier 1

Ecosystem services, cultural or spiritual values	Tier 1	Tier 1
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## Tier criteria

Category	Tier for status	Tier for reported trend
Protection of soil and water	Tier 3: High reliability data derived either from high intensity sample survey or data obtained from national or state agencies responsible for regulations or legislation relating to soil and water protection. Tier 2: Approaches based on low intensity or incomplete sample-based surveys or studies that provide data for specific areas that is extrapolated through statistical analysis to national level estimates. Tier 1: Other	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other
<ul style="list-style-type: none"> <li>• Cultural or spiritual values</li> <li>• Public recreation</li> <li>• Spiritual or cultural services</li> <li>• Other</li> </ul>	Tier 3: High reliability data derived either from high intensity sample survey or data obtained from national or state agencies responsible for regulations. Tier 2: Approaches based on low intensity or incomplete sample-based surveys or studies that provide data for specific areas that is extrapolated through statistical analysis to national level estimates. Tier 1: Other	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other

## 5.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Protection of soil and water	Increase forest cover to protection of soil and water	N/A
Production of clean water	N/A	N/A
Coastal stabilization	Development of Mangrove forests	N/A
Desertification control	Reforestation activities in desert	N/A
Avalanche control	N/A	N/A
Erosion, flood protection or reducing flood risk	Increase forest cover to prevent erosion	N/A
Other protective functions	N/A	N/A
Ecosystem services, cultural or spiritual values	Forest Park Management Plan for the use of ecosystem services	N/A
Public recreation	N/A	N/A
Carbon storage or sequestration	N/A	N/A
Spiritual or cultural services	N/A	N/A

Other ecosystem services	Forest are under severe drought effect and shifting agriculture hasnot any services	N/A
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<b>Other general comments to the table</b>
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N/A
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## 6. How much forest area is protected and designated for the conservation of biodiversity and how has it changed over time?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 6.1 Categories and definitions

Category	Definition
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.
Forest area within protected areas	Forest area within formally established protected areas independently of the purpose for which the protected areas were established.

### 6.2 National data

#### 6.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Engineering Technical Bureau of FRWO	Conservation of biodiversity	2004	N/A
2	Forest Resources Management Bureau of FRWO	forest cover map 1:25000 for out of north Iran	2011	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 6.2.2 Classification and definitions

National class	Definition
Conservation of biodiversity	Biodiversity/watershed credits are used as a mechanism for generating finance for biodiversity protection. Biodiversity credits can be introduced as part of a broader regulatory programme that requires developers to achieve a minimum standard of biodiversity protection. Where development results in reduced biodiversity, developers would be required to offset this damage through biodiversity enhancement elsewhere
N/A	N/A
N/A	N/A
N/A	N/A

### 6.2.3 Original data

<p>Production forest: 1 500 000 hectares.</p> <p>Conservation of biodiversity: Arasbaran Forests (152 851 hectares). Some parts of this forest is designated as Global Biosphere Reserve and the rest are conserved by FRWO and DOE of Iran</p> <p>The rest of the forest area is classified as multiple purposes.</p>
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## 6.3 Analysis and processing of national data

### 6.3.1 Adjustment

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### 6.3.2 Estimation and forecasting



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

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## 6.4 Data

Table 6

Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Conservation of biodiversity	153	153	153	153	419
	Forest area within protected areas	N/A	N/A	1069	1069	1069

### Tiers

Category	Tier for status	Tier for reported trend
Conservation of biodiversity	Tier 1	Tier 1
Forest area within protected areas	Tier 2	Tier 2

### Tier criteria

Category	Tier for status	Tier for reported trend
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<ul style="list-style-type: none"> <li>• Conservation of biodiversity</li> <li>• Forests within protected areas</li> </ul>	<p>Tier 3: Data obtained from national or state agencies responsible for conservation and protected area or legislation relating to area protection. Tier 2: Studies that provide data for specific areas that is extrapolated through statistical analysis to national level estimates Tier 1 Other</p>	<p><b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other</p>
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## 6.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Conservation of biodiversity	Conservation of rare and endangered species through forest reserve plans	N/A
Forest area within protected areas	Under protection areas of environment department	Currently 10 percent of forest is going to be managed as protective forest by DOE.

### 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.

## 7. What is the area of forest affected by woody invasive species?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 7.1 Categories and definitions

Category	Definition
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.

### 7.2 National data

#### 7.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Resources Management Bureau of FRWO	forest cover map 1:25000 for out of north Iran	2011	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 7.2.2 Classification and definitions

National class	Definition
Invasive species	In accordance with the FRA classification
N/A	N/A
N/A	N/A
N/A	N/A

#### 7.2.3 Original data

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### 7.3 Analysis and processing of national data

#### 7.3.1 Adjustment

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## 7.3.2 Estimation and forecasting

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## 7.3.3 Reclassification

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## 7.4 Data

Table 7

Scientific name of woody invasive species	Forest area affected (000 ha)	
	2005	2010
1. Prosopis Juliflora	90	100
2.	N/A	N/A
3.	N/A	N/A
4.	N/A	N/A
5.	N/A	N/A
6.	N/A	N/A
7.	N/A	N/A
8.	N/A	N/A
9.	N/A	N/A
10.	N/A	N/A
Total	90	100

## Tiers

Category	Tier for status	Tier for reported trend
Invasive species	Tier 1	Tier 1

## Tier Criteria

Category	Tier for status	Tier for reported trend
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Invasive species	Tier 3: Systematic assessment in forest inventory or other survey (e.g. by conservation department) within the last 5 years) Tier 2: Systematic assessment in forest inventory or other survey (e.g. by conservation department conducted more than 5 years ago) Tier 1: Other	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other
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### 7.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Invasive species	Species listed is in uncontrolled development condition, especially in agricultural lands	N/A

#### Other general comments to the table

Note: The total forest area affected by woody invasive species and the agriculture and private land could not be separated so the affected could be clear later.

## 8. How much forest area is damaged each year?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 8.1 Categories and definitions

Category	Definition
Number of fires	Number of fires per year
Burned area	Area burned per year
Outbreaks of insects	A detectable reduction in forest health caused by a sudden increase in numbers of harmful insects.
Outbreaks of diseases	A detectable reduction in forest health caused by a sudden increase in numbers of harmful pathogens, such as bacteria, fungi, phytoplasma or virus.
Severe weather events	Damage caused severe weather events, such as snow, storm, drought, etc.

### 8.2 National data

#### 8.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Resources Management Bureau of FRWO	forest cover map 1:25000 for out of north Iran	2011	N/A
2	Of the FRA 2015 external data Final	FRA 2015	2015	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 8.2.2 Classification and definitions

National class	Definition
Number of fires	In accordance with the FRA classification
Burned area	In accordance with the FRA classification
Outbreaks of insects	In accordance with the FRA classification
Outbreaks of diseases	In accordance with the FRA classification

## 8.2.3 Original data

## 8.3 Analysis and processing of national data

## 8.3.1 Adjustment

## 8.3.2 Estimation and forecasting

## 8.3.3 Reclassification

## 8.4 Data

Table 8a

Category		000 ha, number of fires									
		2003		2004		2005		2006		2007	
		000 ha	#	000 ha	#	000 ha	#	000 ha	#	000 ha	#
	Total land area burned	165.58	N/A	183.25	N/A	113.82	N/A	157.52	N/A	294.57	N/A
	... of which forest area burned	0.79	8.03	0.17	N/A	0.65	644	27.52	N/A	0.58	N/A
Category		2008		2009		2010		2011		2012	
		000 ha	#	000 ha	#	000 ha	#	000 ha	#	000 ha	#
	Total land area burned	21.34	N/A	142.98	N/A	642.52	N/A	98.85	N/A	60.99	N/A
	... of which forest area burned	1.02	N/A	1.34	N/A	1.02	N/A	0.15	N/A	0.35	N/A

Table 8b

Outbreak category	Description/name	Year(s) of latest outbreak	Area damaged (000 hectares)
Boxywoodblight	Calonectriapseudonaviculata	2013	150
Charcoal diseases	Bioscogniauxiamediterranea	2013	1050
Semi-parasitic plants	1-Loranthuseuropaerus2- L.grewinkii3-Viscumalbum4- Arcetobiumoxycedri	2013	900
Spodoptera pests (in northern and northwest of country)	1-Erannisdefolaria2- Ennomosquercinaria3- Opherophthoraburmata4- Lymantriadispar5- Hyphantriacunea6- Euproctischrysorrhoea7- Tortrixviridana8- Galerucellalineola9- Alticavidridula	2012	50
Spodoptera pests (in western and southwest of country)	1-Tortrixviridana2- Porteshiamelania3- Esfandiariaobesa4- Ocneriaterebynthina5- Leucomawiltshirei	2012	400
Dutch elm diseases	Ophiostomanovo-ulmi	2012	1500
Rat	1-Nosekiaindica2- Rhombomysopimus3- Allagtagaelater4-Citellusfulvus	2011	300
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Outbreak category
1 Insects
2 Diseases
3 Severe weather events

## Tiers

Category	Tier for status	Tier for trend
Area affected by fire	Tier 2	Tier 1
<ul style="list-style-type: none"> <li>• Insects</li> <li>• Diseases</li> <li>• Severe weather events</li> </ul>	Tier 3	Tier 1

## Tier criteria

Category	Tier for status	Tier for reported trend
Burned area	<b>Tier 3</b> : National fire monitoring routines <b>Tier 2</b> : Remote sensing surveys <b>Tier 1</b> : Other	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other
<ul style="list-style-type: none"> <li>• Insects</li> <li>• Diseases</li> <li>• Severe weather events</li> </ul>	<b>Tier 3</b> : Systematic survey (e.g. via inventory or aerial damage assessment) <b>Tier 2</b> : Management records <b>Tier 1</b> : Other	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other

## 8.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Burned area	By the monitoring operations performed each the proportion of infected area was measured.	N/A
Insects	By the monitoring operations performed each the proportion of infected area was measured.	N/A
Diseases	By the monitoring operations performed infected area was measured.	N/A
Severe weather events	Is not serious	N/A

## Other general comments to the table

N/A

## 9. What is the forest area with reduced canopy cover?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

Category	Definition
Reduction in canopy cover	Forest that has undergone a reduction of canopy cover of more than 20% between the years 2000 and 2010 within the forest canopy cover range of 30-80% as detected by the MODIS VCF sensor.

Table 9

Category	Area of forest with reduced canopy cover (000 ha)
Reduction in canopy cover	20.84

Tiers

Category	Tier for reported trend
Reduction in canopy cover	N/A

Tier criteria

Category	Tier for reported trend
Reduction in canopy cover	<b>Tier 3</b> : Remote sensing with ground truthing and/or Landsat imagery <b>Tier 2</b> : Remote sensing using Modis (using pre-filled data provided by FAO) <b>Tier 1</b> : Expert opinion

Comments

Category	Comments related to data definitions etc
Reduction in canopy cover	Based on FRA 2015 external data , dried dry lant forest isnot included.

Other general comments

--

## 10. What forest policy and regulatory framework exists to support implementation of sustainable forest management SFM?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 10.1 Categories and definitions

Category	Definition
Policies supporting sustainable forest management	Policies or strategies that explicitly encourage sustainable forest management.
Legislation and regulations supporting sustainable forest management	Legislation and regulations that govern and guide sustainable forest management, operations and use.

### 10.2 National data

#### 10.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Resources Management Bureau of FRWO	Policies and strategies of forest management	2012	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 10.2.2 Classification and definitions

National class	Definition
Strategic Policies of Natural Resources Sector In The Fifth Five - Year Development Plan	Strengthening national will for conservation, revival, improvement, development, and increase of productivity in natural resources
N/A	N/A
N/A	N/A
N/A	N/A



## 10.2.3 Original data

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## 10.3 Data

Table 10

Category				
	National	Sub-national		
		Regional	Provincial/State	Local
Policies supporting sustainable forest management	yes	yes	yes	yes
... of which, in <u>publicly</u> owned forests	yes	yes	yes	yes
... of which, in <u>privately</u> owned forests	no	no	no	no
Legislation and regulations supporting sustainable forest management	no	no	no	no
... of which, in <u>publicly</u> owned forests	no	no	no	no
... of which, in <u>privately</u> owned forests	no	no	no	no

## 10.4 Comments

Variable / category	Comments related to data definitions etc
Policies supporting sustainable forest management	N/A
Legislation and regulations supporting sustainable forest management	N/A

Other general comments

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## 11. Is there a national platform that promotes stakeholder participation in forest policy development?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 11.1 Categories and definitions

Category	Definition
National stakeholder platform	A recognized procedure that a broad range of stakeholders can use to provide opinions, suggestions, analysis, recommendations and other input into the development of national forest policy.

### 11.2 National data

#### 11.2.1 Data sources

	References to sources of information	Years	Additional comments
1	N/A	N/A	N/A
2	N/A	N/A	N/A
3	N/A	N/A	N/A
4	N/A	N/A	N/A

Table 11

Is there a national platform that promotes or allows for stakeholder participation in forest policy development?	yes
--	-----

### 11.3 Comments

Category	Comments related to data definitions etc
National stakeholder platform	Necessary instructions have been created to empower local communities

Other general comments

--

## 12. What is the forest area intended to be in permanent forest land use and how has it changed over time?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 12.1 Categories and definitions

Category	Definition
Forest area intended to be in permanent forest land use	Forest area that is designated or expected to be retained as forest and is highly unlikely to be converted to other land use.
...of which permanent forest estate ( <i>sub-category</i> )	Forest area that is designated by law or regulation to be retained as forest and may not be converted to other land use.

### 12.2 National data

#### 12.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Resources Management Bureau of FRWO	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 12.2.2 Classification and definitions

National class	Definition
Forest area intended to be in permanent forest land use	In accordance with the FRA classification
N/A	N/A
N/A	N/A
N/A	N/A

#### 12.2.3 Original data

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## 12.3 Analysis and processing of national data

### 12.3.1 Adjustment

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### 12.3.2 Estimation and forecasting



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### 12.3.3 Reclassification

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## 12.4 Data

Table 12

Categories		Forest area 2010 (000 ha)
	Forest area intended to be in permanent forest land use	10691.98
	... of which permanent forest estate	10691.98

### Tiers

Category	Tier for status
Forest area intended to be in permanent forest land use	Tier 2
Permanent forest estate	Tier 2

### Tier Criteria

Category	Tier for status
Forest area intended to be in permanent forest land use	<b>Tier 3</b> : National or sub-national land use plans strategy documents or other reports within the past 10 years <b>Tier 2</b> : National or sub-national land use plans strategy documents or other reports within the past 20 years <b>Tier 1</b> : Other
Permanent forest estate	<b>Tier 3</b> : National or sub-national land use plans strategy documents or other reports within the past 10 years <b>Tier 2</b> : National or sub-national land use plans strategy documents or other reports within the past 20 years <b>Tier 1</b> : Other

## 12.5 Comments

Category	Comments related to data definitions etc

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Forest area intended to be in permanent forest land use	The forest area and planted forest changes to other land use is forbidden due to legislation.
Permanent forest estate	The area of natural forest of country and planted forest would be permanent.

Other general comments

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### 13. How does your country measure and report progress towards SFM at the national level?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

#### 13.1 Categories and definitions

Category	Definition
Forest area monitored under a national forest monitoring framework	Forest area monitored by a national monitoring framework or systems that provide measurement based periodic monitoring of forest extent and quality.
Forest reporting at national scale	National reporting of forest extent and characteristics that includes some measure of progress toward sustainable forest management.

#### 13.2 National data

##### 13.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Resources Management Bureau of FRWO	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

##### 13.2.2 Classification and definitions

National class	Definition
Forest reporting at national scale	In accordance with the FRA classification
N/A	N/A
N/A	N/A
N/A	N/A

#### 13.3 Data

Table 13a

Category	% of total forest area	Most recent year	Check all boxes that apply					
			Continuous	Periodic	Permanent ground plots	Temporary ground plots	Aerial/remote sensing sample based	Aerial/remote sensing full coverage
Forest inventory	17.5	2005		yes	yes	yes		yes
Other field assessments	N/A	N/A		yes	yes	yes		
Updates to other sources	N/A	N/A	no	yes	yes			
Expert estimate	100	2000						

Table 13b

Type of forest reporting used at national scale	Check boxes that apply
1 Criteria and Indicators reporting	yes
2 Periodic national state of the forest report	yes
3 Other (please document)	no
4 None	no

#### Other type of forest reporting

N/A

### 13.4 Comments

Category	Comments
Policies, objective and criteria in the implementation of sustainable forest management plans:	1- promotion of social – economical indicator 2- promotion and ecological sustainability of projects, conservation of soil and water 3- promotion of biodiversity indicators in forest habitats 4- promotion of participatory indicators in the implementation of plans 5- achievement of the objectives of national and international obligations related to forest sector 6- assessment of effectiveness rates of the implemented projects and plans 7- conservation of endangered and threatened species
National Forest Programme	Based on National Forest Programme, forests are measured by seven indicators on the basis of ecosystem approach in two phases. Phase I has been finalized and the second phase is under planning.
N/A	N/A

## Other general comments

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## 14. What is the area of forest under a forest management plan and how is this monitored?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 14.1 Categories and definitions

Category	Definition
Forest area with management plan	Forest area that has a long-term documented management plan, aiming at defined management goals which is periodically revised
...of which for production ( <i>sub-category</i> )	Forest management plan mainly focused on production
...of which for conservation ( <i>sub-category</i> )	Forest management plan mainly focused on conservation
Monitoring of forest management plans	Government monitoring of forest management plan implementation conducted through field visits or audits of forest management plan performance

### 14.2 National data

#### 14.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Forest Resources Management Bureau of FRWO	forest resource map 1:25000 for out of north Iran	2011	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

### 14.3 Data

Table 14a

Forest plan type	Forest area 2010 (000 ha)
Forest area with management plan	4367
... of which for production	1500
... of which for conservation	2867

Table 14b

Indicate which (if any) of the following are required in forest management plans in your country	
1 Soil and water management	yes

2 High conservation value forest delineation	yes
3 Social considerations community involvement	yes

Table 14c

<b>Percent of area under forest management plan that is monitored annually</b>	<b>10</b>
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## Tiers

Category	Tier for status
Forest area with management plan	Tier 2
Percent of area under forest management plan that is monitored annually	Tier 1

## Tier criteria

Category	Tier for status
Forest area with management plan	<b>Tier 3</b> : Reports that describe national records 5 years old or less that contain long-term forest monitoring plans <b>Tier 2</b> : Industry or other records indicating the presence of a long-term forest management plan <b>Tier 1</b> : Other
Percent of area under forest management plan that is monitored annually	<b>Tier 3</b> : Government documentation of monitoring extent <b>Tier 2</b> : Reports from forest managers or other documental sources <b>Tier 1</b> : Other

## 14.4 Comments

Category	Comments
Forest area with management plan	Protective forest by DOE could be considered.
N/A	N/A
N/A	N/A

## Other general comments

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## 15. How are stakeholders involved in the management decision making for publicly owned forests?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 15.1 Categories and definitions

Category	Definition
Stakeholder involvement	Stakeholder involvement is defined as significant inputs into at least one aspect of forest management at the operational scale

Table 15

Please indicate the type of stakeholder involvement in forest management decision making required in your country	
1. Planning phase	yes
2. Operations phase	yes
3. Review of operations	yes

Tiers

Category	Tier for status
Type of stakeholder inputs	Tier 2

Tier criteria

Category	Tier for status
Type of stakeholder inputs	<b>Tier 3</b> : Government (national or sub-national) documentation of stakeholder inputs <b>Tier 2</b> : Government (national or subnational) requirement but stakeholder inputs not documented <b>Tier 1</b> : Other

### 15.2 Comments

Category	Comments
Forest management	All forest management including planning, operations and review are carried out both by public and private sector considering the local condition.
N/A	N/A
N/A	N/A

Other general comments

--

## 16. What is the area of forest under an independently verified forest certification scheme?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 16.1 Categories and definitions

Category	Definition
FSC certification	Forest area certified under the Forest Stewardship Council certification scheme
PEFC certification	Forest area certified under the Programme for the Endorsement of Forest Certification scheme
Other international forest management certification	Forest area certified under an international forest management certification scheme with published standards and is independently verified by a third-party, excluding FSC and PEFC certification.
Certified forest area using a domestic forest management certification scheme	Area certified under a forest management certification scheme with published standards that are nationally recognized and independently verified by a thirdparty

### 16.2 Data

Table 16a













International forest management certification		Forest area (000 ha)						
		2000	2001	2002	2003	2004	2005	2006
	FSC	0	0	0	0	0	0	0
	PEFC	0	0	0	0	0	0	0
	Other	0	0	0	0	0	0	0
		2007	2008	2009	2010	2011	2012	
	FSC	0	0	0	0	0	0	
	PEFC	0	0	0	0	0	0	
	Other	0	0	0	0	0	0	

Table 16b

Domestic forest management certification		Forest area (000 ha)						
		2000	2001	2002	2003	2004	2005	2006
	1.Name	0	0	0	0	0	0	0
	2.Name	0	0	0	0	0	0	0
	3.Name	0	0	0	0	0	0	0

		2007	2008	2009	2010	2011	2012	
	1.Name	0	0	0	0	0	0	
	2.Name	0	0	0	0	0	0	
	3.Name	0	0	0	0	0	0	

## Tier criteria

Category	Tier for status
<b>International</b> forest management certification	Tier 3: International forest management scheme records maintained by the certifying organization for the reporting year Tier 2: International forest management scheme records reported by the certifying organization for a period 2 years prior to the reporting year Tier: 1 Other
<b>Domestic</b> forest management certification	Tier 3: National registry reports for domestic forest management certification maintained by the certifying organization for the reporting year Tier 2: Domestic forest management scheme records reported by the certifying organization for a period 2 years prior to the reporting year Tier: 1 Other

## Tiers

Category	Tier for status
<b>International</b> forest management certification	N/A
<b>Domestic</b> forest management certification	N/A

## 16.3 Comments

Category	Comments related to data definitions etc
Certified forest area using an international forest management certification scheme	N/A
Domestic forest management certification	- FRWO is mandated by law to manage and control forest management certification system at national level and carry it out through forest management plans which are devised within national development plans. - Mazandaran Wood and Paper Company, as one of the major industry in forest sector in Iran, holds ISO14000 in addition to domestic forest management certification (150000 ha) - 1.1 million ha.( Zagros and South regions), 0.14 million ha (Arasbaran region),1.544 million ha (Iran-o- Turani), 1.4 million ha (Caspian region) totally 4.184 million ha are under forestry management plan.

## Other general comments

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## 17. How much money do governments collect from and spend on forests?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 17.1 Categories and definitions

Category	Definition
Forest revenue	All government revenue collected from the domestic production and trade of forest products and services. For this purpose revenue include: <ul style="list-style-type: none"> <li>• <u>Goods</u> : roundwood; sawnwood; biomass; woodbased panels; pulp and paper and non-wood forest products.</li> <li>• <u>Services</u> : including concession fees and royalties, stumpage payments, public timber sales revenue taxes and charges based on forest area or yield, taxes on domestic trade and export of forest products, special levies on forestry activities and payments into forest related funds, other miscellaneous inspection, licence and administrative fees levied by forest administrations, permit and licence fees for recreation and other forest related activities.</li> </ul>
Public expenditure on forestry	All government expenditure on forest related activities.

### 17.2 National data

#### 17.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Budget and Planning Office(Bureau)	FRA 2010	N/A	National report FRWO 2008 Revenue and Expenditure
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

### 17.3 Data

Table 17

Category	Revenues / expenditures (000 local currency)		
	2000	2005	2010
Forest revenue	N/A	50000000	50000000
Public expenditure on forestry	N/A	550000000	550000000

	2000	2005	2010
Name of Local Currency	Rails	Rails	Rails

**17.4 Comments**

<b>Category</b>	<b>Comments related to data definitions etc</b>
Forest revenue	Revenue is from wood and non wood product gathered by FRWO and isnot included recreation and nature tourisemes.gathered by private sector.
Public expenditure on forestry	It just included activities which held by FRWO.
Other general comments	N/A

Other general comments

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## 18. Who owns and manages the forests and how has this changed?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 18.1 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.
...of which owned by the state at national scale ( <i>sub-category</i> )	Forest owned by the State at the national scale or administrative units of the public administration or by institutions or corporations owned by the public administration.
...of which owned by the state at the sub-national government scale ( <i>sub-category</i> )	Forest owned by the State at the sub-national government scale 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 cooperatives corporations and other business entities, private, religious and educational institutions, pension or investment funds, NGOs, nature conservation associations and other private institutions.
...of which individuals ( <i>sub-category</i> )	Forest owned by individuals and families.
...of which private business entities and institutions ( <i>sub-category</i> )	Forest owned by private corporations cooperatives companies and other business entities as well as private nonprofit organizations such as NGOs nature conservation associations, and private religious and educational institutions etc.
...of which local tribal and indigenous communities ( <i>sub-category</i> )	Forest owned by a group of individuals belonging to the same community residing within or in the vicinity of a forest area or forest owned by communities of indigenous or tribal people The community members are coowners that share exclusive rights and duties and benefits contribute to the community development.
Unknown ownership	Forest area where ownership is unknown includes areas where ownership is unclear or disputed.
Categories related to management rights of public forests	Definition
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 companies	Forest management rights and responsibilities are transferred from the Public Administration to corporations, other business entities private cooperatives, private nonprofit 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.

### 18.2 National data



## 18.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Engineering Technical Bureau of FRWO	Public ownership	2000	N/A
2	Forest Resources Management Bureau of FRWO	forest cover map 1:25000 for out of north Iran	2011	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

## 18.2.2 Classification and definitions

National class	Definition
N/A	Definition is according to FRA classification
N/A	N/A
N/A	N/A
N/A	N/A

## 18.2.3 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. Question 1 has, therefore, been used as input to this table.

## 18.3 Analysis and processing of national data









## 18.3.1 Adjustment

## 18.3.2 Estimation and forecasting

## 18.3.3 Reclassification

## 18.4 Data

Table 18a

Categories		Forest area (1000 hectares)			
		1990	2000	2005	2010
	Public ownership	9076.058	9325.656	10691.98	10691.98
	... of which owned by the state at national scale	N/A	N/A	N/A	N/A
	... of which owned by the state at the sub-national government scale	N/A	N/A	N/A	N/A
	Private ownership	0	0	0	0
	... of which owned by individuals	0	0	0	0
	... of which owned by private business entities and institutions	0	0	0	0
	... of which owned by local, tribal and indigenous communities	0	0	0	0
	Unknown ownership	0	0	0	0
TOTAL		9076.06	9325.66	10691.98	10691.98

## Tiers

Category	Tier for status	Tier for reported trend
Public ownership	Tier 3	Tier 3
Private ownership	Tier 3	Tier 3
Unknown ownership	Tier 3	Tier 3

## Tier criteria

Category	Tier for status	Tier for reported trend
Ownership	Tier 3: National forestry statistics registers of land titles or maps on land ownership or all forest area under one ownership category that is five years old or less. Tier 2: National forestry statistics registers of land titles or maps on land ownership or questionnaires that are more than five years old. Tier 1: Other	<b>Tier 3</b> : Estimate based on repeated compatible tiers 3 (tier for status) <b>Tier 2</b> : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) <b>Tier 1</b> : Other

Table 18b - Holder of management rights of public forests

Categories	Forest area (000 hectares)			
	1990	2000	2005	2010
Public Administration	N/A	N/A	N/A	517.5
Individuals	N/A	N/A	N/A	N/A
Private companies	N/A	N/A	N/A	373.7
Communities	N/A	N/A	N/A	103.5
Other	N/A	N/A	N/A	N/A
TOTAL	.00	.00	.00	994.70

Category	Tier for reported trend	Tier for status
Public Administration	Tier 2	Tier 2
Individuals	Tier 1	Tier 2
Private companies	Tier 1	Tier 2
Communities	Tier 1	Tier 2
Other	Tier 1	Tier 2

### 18.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Public ownership	N/A	N/A
Private ownership	N/A	N/A
Unknown ownership	N/A	N/A
Management rights	N/A	N/A

Other general comments to the table
N/A

## 19. How many people are directly employed in forestry?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 19.1 Categories and definitions

Category	Definition
Full-time equivalents (FTE)	A measurement equal to one person working full-time during a specified reference period.
Employment in forestry	Employment in activities related to production of goods derived from forests. This category corresponds to the ISIC/NACE Rev. 4 activity A02 (Forestry and logging).

### 19.2 National data

#### 19.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Plan & Programme Bureau - FRWO	Person years	2004	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 19.2.2 Classification and definitions

National class	Definition
N/A	Definition is according to FRA classification
N/A	N/A
N/A	N/A
N/A	N/A

#### 19.2.3 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
NorthForestIntegrated Management Plan	0.8	1.2
NorthForestUtilization 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
<b>National class</b>		
<b>FRA Classes</b>		
Conservation and Protection Plan=		Provision of services
Land Cadastral & Demarcation=		Unspecified forestry activities
Out of North Forest Management Plan=		Primary production of goods
NorthForestIntegrated Management Plan =		Primary production of goods
NorthForestUtilization 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

### 19.3 Data

Table 19

Category	Employment (000 years FTE)
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		1990	2000	2005	2010
	Employment in forestry	65.83	52.759	49.155	14.35
	... of which female	4.6081	6.33108	1.9662	1.9662

#### 19.4 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Employment in forestry	N/A	N/A

#### 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 cannot be separated exactly. It excludes the number of persons who are employed in Forest Advisory Institutes.

## 20. What is the contribution of forestry to Gross Domestic Product (GDP)?

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 20.1 Categories and definitions

Category	Definition
Gross value added from forestry (at basic prices)	This category corresponds to the ISIC/NACE Rev. 4 activity A02 (Forestry and logging).

### 20.2 Data

Table 20 (Pre-filled data from UNdata/EUROSTAT)

Category	Million	Currency	Year for latest available information
Gross value added from forestry (at basic prices)	3462500	Iranian rial	2007

### 20.3 Comments

Category	Comments
Gross value added from forestry (at basic prices)	N/A

Other general comments

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## 21. What is forest area likely to be in the future

Documents for this question:

- [Guide for country reporting FRA 2015](#)
- [FRA 2015 Terms and Definitions](#)

### 21.1 Categories and definitions

Category	Definition
Government target/aspiration for forest area	Government target/aspiration for forest area for a specific year.
Forests earmarked for conversion	Forest area that is allocated/classified or scheduled to be converted into non-forest uses.

### 21.2 National data

#### 21.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	The Vision 2025 on Natural Resources Development and Watershed Management	Forest area	2025	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

### 21.3 Data

Table 21a

Category	Forest area (000 ha)	
	2020	2030
Government target/aspiration for forest area	3507	5556.7

Table 21b

Category	Forest area (000 ha)
	2013
Forests earmarked for conversion	0

### 21.4 Comments

Category	Comments
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Government target/aspiration for forest area	The country have a National Forest Strategy for forest expansion 1-1-The Vision 2025 on Natural Resources Development and Watershed Management 1-2- Fifth five- Year Development Programme
Forests earmarked for conversion	N/A

Other general comments

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