

GLOBAL FOREST RESOURCES ASSESSMENT 2015

COUNTRY REPORT

**Kyrgyzstan**

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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## Report preparation and contact persons

### Contact persons

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N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

### Introductory Text

Place an introductory text on the content of this report

The Kyrgyz Republic features low-forested territories, as the forests mostly consist of mountain greenery rich in variety. Approximately 90% of the forests in the Kyrgyz Republic are situated at an altitude between 700-3,500 meters above sea level.

As of 1 January 2010 forested area (trees and shrubs) of the Kyrgyz Republic is 1,123,200 hectares or 5,6 % of total area of the country. The Forestry of the Kyrgyz Republic is not a major sector in the domestic economy. The Kyrgyz forests, because of their unique nature and major environmental significance, are very important in the global processes of regulating the state of the environment and preventing negative climate changes. Growing on mountain slopes, they help in the prevention of mud streams, hinder formation of landslides and avalanches, regulate water flow in the rivers to make more even throughout the year.

Because of this, according to the Forest Code of the Kyrgyz Republic, all forests in the country play ecological roles, fulfilling environmental, sanitary, hygienic, health, and other protective functions.

The System of Forest Assessment and Monitoring of Kyrgyzstan consists from following separate and complementary activities:

- National Forest Inventory
- Forest Management.

**National Forest Inventory** is the 1-st level of The System of Forest Assessment and Monitoring, which define the request of country.

**Forest Management** is 2-nd level of The System of Forest Assessment and Monitoring, which define the request of forestry planning (to formulate Forestry Management Plan)

2008-2010 the system of forest national inventory was created in the frame project FAO TCP/KYR/3102 (D) "Capacity Building for National Forest and Tree Resource Assessment and Monitoring" harmonized to the international standards, the European information systems focused on the Global Forest resources Assessment.

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 both the 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	Forest Code of the Kyrgyz Republic	Categories, definitions and classification of Forest Fund land	1999	Legislative basis of the sustainable management of forest resources. Legal principals / fundamentals

2	Land Code of the Kyrgyz Republic	Categories, definitions and classification of Land Fund	1999	Legislative basis of the sustainable management of land resources
3	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1993, Department of Forestry Development	Forest and Other wooded land	1993	Account, covering State Forest Fund and Prtoected Areas of the Kyrgyz Republic
4	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1998, Department of Forestry Development	Forest and Other wooded land	1998	Account, covering State Forest Fund and Prtoected Areas of the Kyrgyz Republic
5	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2003, State Forestry Service	Forest cover and Other wooded land	2003	Account, covering State Forest Fund and Prtoected Areas of the Kyrgyz Republic
6	Report	Forest and Other wooded land	2008-2010	Forest and Other wooded land of the republic

### 1.2.2 Classification and definitions

National class	Definition
Forest	Land spanning # 0.5 hectares with trees higher #5 meters and a canopy cover # 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
Other land	All land that is not classified as
Inland water bodies	Includes major rivers, lakes and water reservoirs.

### 1.2.3 Original data

Forest area					
National class	1993 1000ha	1998 1000ha	2003 1000ha	2008 1000 ##	2010 1000ha
Forest	836,4	858,3	869,3	677	677
Other wooded land	283,4	303	312,8	620	620
Other land*	17996,2	17954,7	17933,9	17819	17819

Inland water bodies	879	879	879	879	879
<b>Total:</b>	<b>1995</b>	<b>1995</b>	<b>1995</b>	<b>1995</b>	<b>1995</b>

\*/ approximated data

### Forest expansion, deforestation, reforestation

National category	Annual establishment of Forests, ha/year				Of which introduced species			
	1990	2000	2005	2010	1990	2000	2005	2010
Aforestation	35	40	177	590	ND	ND	ND	ND
Reforestation	3029	3313	2934	2020	ND	130	189	ND
... of which conversion of forest stand	ND	ND	133	142	ND	ND	ND	ND
Natural expansion forest	ND	ND	ND	ND	ND	ND	ND	ND

1) The data are the annual parameters, adjusted to the average parameters for the 5-year periods

## 1.3 Analysis and processing of national data

### 1.3.1 Adjustment

Forest area		
Data sources	Total Land Area (1000 ha)	Total Water Area (1000 ha)
National data	1995 <sup>1/</sup>	879 <sup>2/</sup>
FAOSTAT	1990	810
Difference	5	69



Conversion factor	0,999	0,92
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<sup>1/</sup> Official territory/ area according to the National Statistical Committee ( NSC ) of the Kyrgyz Republic.

<sup>2/</sup> 4.4 % of the total territory of the country, according to the NSC of the Kyrgyz Republic.

**Note:** The calibration of data was implemented without an application of the conversion factor, as the national quantitative data are of the official character. That is why the difference between the FAOSTAT data on “ *Total area* ” and “ *Inland water bodies* ”, and the corresponding national data, was regulated within the variable “ *Other land* ”.

### 1.3.2 Estimation and forecasting

<b>Forest area</b>					
<b>National category</b>	<b>1990 1000ha</b>	<b>2000 1000ha</b>	<b>2005 1000ha</b>	<b>2010 1000ha</b>	<b>2015 1000ha</b>
Forest	836,4	858,3	869,3	677	637
Other forest land	283,4	303	312,8	620	704,15
Other land	17996,2	17954,7	17933,9	17819	17774,85
Inland water bodies	879	879	879	879	879
<b>Total:</b>	<b>19995</b>	<b>19995</b>	<b>19995</b>	<b>19995</b>	<b>19995</b>

### 1.3.3 Reclassification

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National category	Category FRA2015			
	Forest	Other wooded land	Other land	Total:
Forest	100%			100%
Other wooded land		100%		100%
Other land			100%	100%

## 1.4 Data

Table 1a













Categories		Area (000 hectares)				
		1990	2000	2005	2010	2015
 Forest		836.4	858.3	869.3	677	637
 Other wooded land		283.4	303	312.8	620	704.15
 Other land		17996.2	17954.7	17933.9	17819	17774.85
 ... of which with tree cover		N/A	N/A	N/A	N/A	N/A
 Inland water bodies		879	879	879	879	879
	TOTAL	19995.00	19995.00	19995.00	19995.00	19995.00

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	N/A	N/A	N/A	N/A	N/A	N/A	N/A
 ... of which afforestation		0.035	0.04	0.177	0.15	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	N/A	N/A	N/A	N/A	N/A	N/A
 ... of which human induced		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
 Reforestation		3.029	3.313	2.934	2.02	N/A	N/A	N/A	N/A

	... of which artificial	3.029	3.313	2.934	2.02	N/A	0.13	0.189	N/A
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## Tiers

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

## 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 <b>Tier 2</b> : Data sources: Full cover mapping / remote sensing or old NFI (more than 10 years ago) <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>

## 1.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trends
Forest	Meets to the definition of FRA-2015	National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification landuse was revised
Other wooded land	Meets to the definition of FRA-2015	National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification landuse was revised
Other land	Meets to the definition of FRA-2015	National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification landuse was revised
Other land with tree cover	Meets to the definition of FRA-2015	National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification landuse was revised
Inland water bodies	Definitions have not been changed; The variable "Inland water bodies" was taken from the FAOSTAT database	No changes in the FAOSTAT database in the value of the variable "Inland water bodies" have been observed

Forest expansion	National definition was adjusted to FRA 2015 definition	According to the National Plan of Actions of the Kyrgyz Republic for 2006-2010, the annual planting of forest on the lands where there has not been an earlier forest-growing, is equal to 1000 ha. There are no data on the natural expansion of forest on the reason of the absence of the works on the accounting of these lands.
Deforestation	N/A	N/A
Reforestation	National definition was adjusted to FRA 2015 definition	According to the National Plan of Actions of the Kyrgyz Republic for 2006-2010, the annual planting of forest on the lands, earlier covered by forests is equal to 2000 ha.

**Other general comments to the table**

1. The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification landuse was revised 2. Estimation and forecasting was carried out by using linear interpolation

## 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	Forest Code of the Kyrgyz Republic	Categories, definitions and classification of Forest Fund land	1999	Legislative basis of the sustainable management of forest resources. Legal principals / fundamentals
2	Land Code of the Kyrgyz Republic	Categories, definitions and classification of Land Fund	1999	Legislative basis of the sustainable management of land resources

3	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1993	Forest Land and Other wooded land	1993	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
4	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1998	Forest Land and Other wooded land	1998	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
5	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2003, State Forestry Service	Forest Land and Other wooded land	2003	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
6	Report	Forest Land and Other wooded land	2008-2010	Forest land and other wooded land of Kyrgyz Republic

### 2.2.2 Classification and definitions

National class	Definition
Natural forests	Natural forests are dominating and their share is 60%, also there is natural regeneration
Planted forests	Planted forests are dominating and their share is 60%, also there is planting reforestation
N/A	N/A
N/A	N/A

### 2.2.3 Original data

National category	Forest area(1000ha)				
	1993	1998	2003	2008	2013
Natural forest	793,4	794,1	801,5	630	630
Planted forest	49,6	55,4	63,4	47	47

## 2.3 Analysis and processing of national data

## 2.3.1 Adjustment

Not needed.
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## 2.3.2 Estimation and forecasting




National category	Forest area(1000ha)					Forest area(1000ha)				
	1993	1998	2003	2008	2013	1990	2000	2005	2010	2015
Natural forest	793,4	794,1	801,5	630	630	817,9	777,8	785,2	613,7	613,7
Planted forest	49,6	55,4	63,4	47	47	74,11	39,06	47,06	47	47

## 2.3.3 Reclassification

National category	Category of FRA-2015		
	Natural forest	Planted forest	Total
Natural forest	100%		100%
Planted forest		100%	100%

## 2.4 Data

Table 2a

Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Primary forest	793.4	794.1	801.5	630	630
	Other naturally regenerated forest	N/A	N/A	N/A	N/A	N/A
	... of which of introduced species	N/A	N/A	N/A	N/A	N/A




	... of which naturalized	N/A	N/A	N/A	N/A	N/A
	Planted forest	49.6	55.4	63.4	47	47
	... of which of introduced species	N/A	N/A	N/A	N/A	N/A
TOTAL		843.00	849.50	864.90	677.00	677.00

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)	0	0	0	0	N/A
... of which planted	N/A	N/A	N/A	N/A	N/A

## Tiers

Category	Tier for status	Tier for reported trend
Primary forest	Tier 3	Tier 2
Other naturally regenerated forest	N/A	N/A
Planted forest	Tier 3	Tier 2
Mangroves	Tier 3	Tier 3

## 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	National definition was adjusted to the FRA 2015 definition	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised
Other naturally regenerating forest	NA	NA
Planted forest	National definition was adjusted to the FRA 2015 definition	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised
Mangroves	not used	not used

### Other general comments to the table

1. The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised  
 2. The data of other naturally regenerating forest is absent  
 3. Mangrove forest is not in Kyrgyzstan  
 4. Estimation and forecasting was carried out by using linear interpolation

### 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	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1993	Table coverage	1993	State Forest Fund territory
2	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1998	Table coverage	1998	State Forest Fund territory
3	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2003	Table coverage	2003	State Forest Fund territory

4	Report “Integrated Assessment of Natural Resources in Kyrgyzstan”	Table coverage	2008-2010	Forest land and other wooded land of Kyrgyz Republic
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### 3.2.2 Classification and definitions

National class	Definition
Growing stock (of forest stand)	Volume stem wood of all living trees in given forest stand.
Above-ground biomass	Same as FRA2015
Below-ground biomass	Same as FRA2015
Dead wood	Same as FRA2015
Carbon in above-ground biomass	Same as FRA2015
Carbon in below-ground biomass	Same as FRA2015
Carbon in dead wood	Same as FRA2015
Carbon in litter	Same as FRA2015
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.

### 3.2.3 Original data

<b>Growing stock</b>										
Original data (a)										
National category	Volume (million cubic meters over bark )									
	Forest					Other wood land				
	1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
Total growing stock	21,89	27,26	29,94	44,66	48	N/A	N/A	N/A	N/A	1000
... of which coniferous forests	16,08	19,8	21,66	31,66	39,4	N/A	N/A	N/A	N/A	10

... of which broadleaves forest	5,81	7,46	8,28	13	6,1	N/A	N/A	N/A	N/A	300
... of which mixed forest	N/A	N/A	N/A	N/A	2,5	N/A	N/A	N/A	N/A	N/A
... of which open wood land	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	690

## Original data (b)

National category	Volume (million cubic meters)				
	1993	1998	2003	2008	2015
<b>Forest</b>	<b>23,5</b>	<b>24,48</b>	<b>28,87</b>	<b>48</b>	<b>48</b>
Of which:					
<i>Coniferous</i>	<i>17,11</i>	<i>17,57</i>	<i>20,84</i>	<i>39,4</i>	<i>39,4</i>
Fir	12,38	12,46	15,35	33,9	33,9
Juniper	4,06	4,21	4,53	5	5
Other coniferous	0,67	0,9	0,96	0,5	0,5
<i>Broadleaves</i>	<i>4,26</i>	<i>4,66</i>	<i>5,43</i>	<i>6,1</i>	<i>6,1</i>
Nut	2,38	2,45	2,82	1,9	1,9
Apple	0,36	0,4	0,45	0,22	0,22
Maple	1,1	1,18	1,22	1,4	1,4
Hawthorn				0,05	0,05
Riparian				2,1	2,1
Poplar	0,28	0,4	0,59	0,19	0,19

Other broadleaves	0,14	0,23	0,35	0,24	0,24
<i>Mixed forests</i>	<i>2,13</i>	<i>2,25</i>	<i>2,6</i>	<i>2,5</i>	<i>2,5</i>

### 3.3 Analysis and processing of national data

#### 3.3.1 Adjustment

<b>Growing stock</b>
Not needed.

#### 3.3.2 Estimation and forecasting

<b>Growing stock</b>										
Original data (a)										
National category	Volume (million cubic meters over bark )									
	Forest					Other wood land				
	1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
Total growing stock	21,89	27,26	29,94	48	48	N/A	N/A	N/A	1000	1000
... of which coniferous forests	16,08	19,8	21,66	39,4	39,4	N/A	N/A	N/A	10	10
... of which broadleaves forest	5,81	7,46	8,28	6,1	6,1	N/A	N/A	N/A	300	300

... of which mixed forest	N/A	N/A	N/A	2,5	2,5	N/A	N/A	N/A	N/A	N/A
... of which open wood land	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	690	690

Original data (b)

National category	Volume (million cubic meters)				
	1993	1998	2003	2008	2015
<b>Forest</b>	<b>23,5</b>	<b>24,48</b>	<b>28,87</b>	<b>48</b>	<b>48</b>
Of which:					
<i>Coniferous</i>	<i>17,11</i>	<i>17,57</i>	<i>20,84</i>	<i>39,4</i>	<i>39,4</i>
Fir	12,38	12,46	15,35	33,9	33,9
Juniper	4,06	4,21	4,53	5	5
Other coniferous	0,67	0,9	0,96	0,5	0,5
<i>Broadleaves</i>	<i>4,26</i>	<i>4,66</i>	<i>5,43</i>	<i>6,1</i>	<i>6,1</i>
Nut	2,38	2,45	2,82	1,9	1,9
Apple	0,36	0,4	0,45	0,22	0,22
Maple	1,1	1,18	1,22	1,4	1,4
Hawthorn	##. ###	##. ###	##. ###	0,05	0,05
Riparian	##. ###	##. ###	##. ###	2,1	2,1
Poplar	0,28	0,4	0,59	0,19	0,19
Other broadleaves	0,14	0,23	0,35	0,24	0,24

<i>Mixed forests</i>	2,13	2,25	2,6	2,5	2,5
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### 3.3.3 Reclassification

National classes correspond to (coincide with) FRA-2015 categories
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## 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
	Total growing stock	21.89	27.26	29.94	48	48	N/A	N/A	N/A	1	1
	... of which coniferous	16.08	19.8	21.66	39.4	39.4	N/A	N/A	N/A	0.1	0.1
	... of which broadleaved	5.81	7.46	8.28	8.6	8.6	N/A	N/A	N/A	0.99	0.99

Table 3b

Category/Species name			Growing stock in forest (million cubic meters)			
Rank	Scientific name	Common name	1990	2000	2005	2010
1 st	<i>Picea Schrenkiana</i>	Spruce	11.49	14.46	15.94	32.6


2 nd	Juniperus	Juniper (var. tree)	3.92	4.39	4.62	5
3 rd	Juglans	Walnut	2.25	2.69	2.91	1.9
4 th	Acer turkestanica	Marple	1.06	1.18	1.25	1.4
5 th	Populus spp.	Poplar	0.19	0.5	0.65	0.19
6 th	Maluss spp.	Apple-tree	0.33	0.42	0.47	0.22
7 th	N/A	N/A	N/A	N/A	N/A	N/A
8 th	N/A	N/A	N/A	N/A	N/A	N/A
9 th	N/A	N/A	N/A	N/A	N/A	N/A
10 th	N/A	N/A	N/A	N/A	N/A	N/A
Remaining			2.65	3.62	4.1	6.69
TOTAL			21.89	27.26	29.94	48.00

**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)	8 cm	N/A
Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)	6 cm	Subject of a change between 4 and 8 depending on the species
Minimum diameter (cm) of branches included in growing stock (W)	no	Branches/twigs are not included
Volume refers to above ground (AG) or above stump (AS)	AS	Above stump

**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	21.89	27.26	29.94	48	48





	... of which coniferous	16.08	19.08	21.66	39.4	39.4
	... of which broadleaved	5.81	7.46	8.28	8.6	8.6

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	40.1	50.2	55.2	27.8	27.8	N/A	N/A	N/A	2.3	2.3
	Below ground biomass	17.04	21.46	23.56	8.1	8.1	N/A	N/A	N/A	0.9	0.9
	Dead wood	0	0	0	0.14	0.14	N/A	N/A	N/A	0.002	0.002
TOTAL		57.14	71.66	78.76	36.04	36.04	.00	.00	.00	3.20	3.20

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	18.9	23.6	25.9	13.3	13.3	N/A	N/A	N/A	0.3	0.3
	Carbon in below ground biomass	8	10.1	11.1	4	4	N/A	N/A	N/A	0.4	0.4
	<i>Subtotal Living biomass</i>	26.9	33.7	37	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon in dead wood	N/A	N/A	N/A	0.071	0.071	N/A	N/A	N/A	0.001	0.001
	Carbon in litter	20.1	20.8	21.3	16.5	16.5	N/A	N/A	N/A	8.6	8.6
	<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	31.8	32.6	33	80	80	N/A	N/A	N/A	75	75
TOTAL		78.80	87.10	91.30	113.87	113.87	.00	.00	.00	84.30	84.30

## Tiers

Variable/category	Tier for status	Tier for trend
Total growing stock	Tier 2	Tier 2
Net annual increment	Tier 2	Tier 2
Above ground biomass	Tier 2	Tier 2
Below ground biomass	Tier 2	Tier 2
Dead wood	Tier 2	Tier 2
Carbon in above-ground biomass	Tier 2	Tier 2
Carbon in below ground biomass	Tier 2	Tier 2
Carbon in dead wood and litter	Tier 2	Tier 2
Soil carbon	Tier 2	Tier 2

## 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>	<p>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</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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### 3.5 Comments on growing stock biomass and carbon

Category	Comments related to data definitions etc	Comments on the reported trend
Total growing stock	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also growing stock was recalculated
Growing stock of broadleaved coniferous	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also growing stock was recalculated
Growing stock composition	Definition has not been considered	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also growing stock was recalculated
Net annual increment	N/A	N/A
Above-ground biomass	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also biomass was recalculated
Below-ground biomass	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also biomass was recalculated

Dead wood	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also biomass was recalculated
Carbon in above-ground biomass	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also biomass was recalculated
Carbon in below-ground biomass	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also biomass was recalculated
Carbon in dead wood	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also carbon stock was recalculated
Carbon in litter	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also carbon stock was recalculated
Soil carbon	Definition has not been changed	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also carbon stock was recalculated

**Other general comments to the table**

The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised, also growing stock, biomass, carbon stock were recalculated

## 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	N/A	N/A	N/A	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

#### 4.2.2 Classification and definitions

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

N/A	N/A
N/A	N/A

#### 4.2.3 Original data

### 4.3 Analysis and processing of national data

#### 4.3.1 Adjustment

#### 4.3.2 Estimation and forecasting

#### 4.3.3 Reclassification

### 4.4 Data

Table 4a

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



	Production forest	0	0	0	0	0
	Multiple use forest	0	0	0	0	0

Table 4b

Rank	Name of product	Key species	Commercial value of NWFP removals 2010 (value 1000 local currency)	NWFP category
1 st	N/A	N/A	N/A	N/A
2 nd	N/A	N/A	N/A	N/A
3 rd	N/A	N/A	N/A	N/A
4 th	N/A	N/A	N/A	N/A
5 th	N/A	N/A	N/A	N/A
6 th	N/A	N/A	N/A	N/A
7 th	N/A	N/A	N/A	N/A
8 th	N/A	N/A	N/A	N/A
9 th	N/A	N/A	N/A	N/A
10 th	N/A	N/A	N/A	N/A
TOTAL			.00	

2010	
Name of local currency	N/A

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	N/A	N/A
1991	N/A	N/A
1992	N/A	N/A
1993	N/A	N/A
1994	N/A	N/A
1995	N/A	N/A
1996	N/A	N/A
1997	N/A	N/A
1998	N/A	N/A
1999	N/A	N/A
2000	N/A	N/A
2001	N/A	N/A
2002	N/A	N/A



2003	N/A	N/A
2004	N/A	N/A
2005	N/A	N/A
2006	N/A	N/A
2007	N/A	N/A
2008	N/A	N/A
2009	N/A	N/A
2010	N/A	N/A
2011	N/A	N/A

## 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	not applicable	not applicable
Multiple use forest	not applicable	not applicable
Total wood removals	not applicable	not applicable
Commercial value of NWFP	not applicable	not applicable

**Other general comments to the table**

Data for this chapter are absent, because the Kyrgyz Republic features low-forested territories, as the forests mostly consist mountain greenery rich in variety. Approximately 90% of the forests in Kyrgyz Republic are situated at an altitude between 700 – 3,500 meters above sea level. The Kyrgyz forest are very important in the global processes of regulating the state of the environmental and preventing negative climate changes. Growing on mountain slopes, they help in the prevention of mud streams, hinder formation of landslides and avalanches, regulate water flow in the rivers to make them more even throughout the year. Because of this, according to the Forest Code of the Kyrgyz Republic, all forests in the country play ecological roles, fulfilling environmental, sanitary, hygienic, health and other protective function.

## 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	Forest Code of the Kyrgyz Republic	Categories, definitions and classification of Forest Fund land	1999	Legislative basis of the sustainable management of forest resources. Legal principals / fundamentals

2	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1993	Forest Land and Other wooded land	1993	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
3	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1998	Forest Land and Other wooded land	1998	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
4	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2003	Forest Land and Other wooded land	2003	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
5	Report “Integrated Assessment of Natural Resources”	Forest Land and Other wooded land	2008-2010	Forest land and other wooded land of Kyrgyz Republic

### 5.2.2 Classification and definitions

National class	Definition
Water protection forests	Forests along rivers, lakes, reservoirs and other water bodies
Protective forests	Anti-erosion forests, desert and forest-poor mountain areas of importance for environmental protection
Forests of protected areas	Reserves, natural parks, wildlife sanctuaries, especially valuable forests, forests of scientific value, genetic reserves and natural monuments, walnut forests, juniper forests, pistachio forests
N/A	N/A

### 5.2.3 Original data

National category	Areas (1000 ha)				
	1993	1998	2003	2008	2013
Water protection forests	45,3	45,3	45,3	73,24	73,24
Protective forests	210,41	216,41	216,41	310,74	310,74
Forests of protected areas	587,29	587,79	603,19	739,07	739,07
<b>Total:</b>	<b>843</b>	<b>849,5</b>	<b>864,9</b>	<b>1123,05</b>	<b>1123,05</b>

## 5.3 Analysis and processing of national data

### 5.3.1 Adjustment

No needed

### 5.3.2 Estimation and forecasting

National category	Areas (1000 ha)					Areas (1000 ha)				
	1993	1998	2003	2008	2013	1990	2000	2005	2010	2015
Water protection forests	45,3	45,3	45,3	73,24	73,24	41,1	48,1	48,1	76,04	76,04
Protective forests	210,41	216,41	216,41	310,74	310,74	195,35	226,45	226,45	320,78	320,78
Forests of protected areas	587,29	587,79	603,19	739,07	739,07	564,49	602,49	618,39	754,27	754,27
<b>Total:</b>	<b>843</b>	<b>849,5</b>	<b>864,9</b>	<b>1123,1</b>	<b>1123,1</b>	<b>800,9</b>	<b>877,04</b>	<b>892,94</b>	<b>1151</b>	<b>1151</b>

### 5.3.3 Reclassification

National category	Category of FRA-2015		Total
	Protection of soil and water conservation	Ecosystem function, cultural and spiritual values	
Water protection forests	100%		100%
Protective forests	100%		100%

Forests of protected areas	100%		100%
Ecosystem function, cultural and spiritual values		100%	100%

## 5.4 Data

Table 5a

Categories		Forest area (1000 hectares)				
		1990	2000	2005	2010	2015
	Protection of soil and water	836.4	858.3	869.3	677	637
	... 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

The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised

Table 5b

Categories	Forest area (1000 hectares)				
	1990	2000	2005	2010	2015

Ecosystem services, cultural or spiritual values	836.4	858.3	869.3	677	637
...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 3	Tier 2
Ecosystem services, cultural or spiritual values	Tier 3	Tier 2

## 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
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Protection of soil and water	meets to definition of FRA-2015	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised
Production of clean water	meets to definition of FRA-2015	there is no information
Coastal stabilization	meets to definition of FRA-2015	there is no information
Desertification control	meets to definition of FRA-2015	there is no information
Avalanche control	meets to definition of FRA-2015	there is no information
Erosion, flood protection or reducing flood risk	meets to definition of FRA-2015	there is no information
Other protective functions	meets to definition of FRA-2015	there is no information
Ecosystem services, cultural or spiritual values	meets to definition of FRA-2015	there is no information
Public recreation	meets to definition of FRA-2015	there is no information
Carbon storage or sequestration	meets to definition of FRA-2015	there is no information
Spiritual or cultural services	meets to definition of FRA-2015	there is no information
Other ecosystem services	meets to definition of FRA-2015	there is no information

**Other general comments to the table**

The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised



## 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	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1993	Forest Land and Other wooded land	1993	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
2	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1998	Forest Land and Other wooded land	1998	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
3	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2003	Forest Land and Other wooded land	2003	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
4	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2008 (preliminary data)	Forest Land and Other wooded land	2009	Forest land and other wooded land of the State Forest Fund and Protected Areas of Kyrgyz Republic
5	Report	Forest Land and Other wooded land	2008-2010	Forest land and other wooded land of Kyrgyz Republic

#### 6.2.2 Classification and definitions

National class	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.

N/A	N/A
N/A	N/A

### 6.2.3 Original data

Original data (a)					
National category	Areas (1000 ha)				
	1993	1998	2003	2008	2013
Conservation of biodiversity	831,9	804,3	814,6	1050,9	1050,9
Forest area within protected areas	11,1	45,2	50,3	72,15	72,15
<b>Total:</b>	<b>843</b>	<b>849,5</b>	<b>864,9</b>	<b>1123,05</b>	<b>1123,05</b>

## 6.3 Analysis and processing of national data

### 6.3.1 Adjustment

No needed
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### 6.3.2 Estimation and forecasting

National category	Areas (1000 ha)					Areas(1000 ha)				
	1993	1998	2003	2008	2013	1990	2000	2005	2010	2015
Conservation of biodiversity	831,9	804,3	814,6	1050,9	1050,9	799,05	826,2	836,5	1072,8	1072,8



Forest area within protected areas	11,1	45,2	50,3	72,15	72,15	1,95	51,3	56,4	78,25	78,25
<b>Total:</b>	<b>843</b>	<b>849,5</b>	<b>864,9</b>	<b>1123,1</b>	<b>1123,1</b>	<b>801</b>	<b>877,5</b>	<b>892,9</b>	<b>1151</b>	<b>1151</b>

### 6.3.3 Reclassification

Reclassification (a)			
National category	Category of FRA-2015		Total
	Conservation of biodiversity	Forest area within protected areas	
Conservation of biodiversity	100%		100%
Forest area within protected areas		100%	100%

## 6.4 Data

Table 6

Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Conservation of biodiversity	799.05	826.2	836.5	677	637
	Forest area within protected areas	1.95	51.3	56.4	78.25	78.25

### Tiers

Category	Tier for status	Tier for reported trend
Conservation of biodiversity	Tier 3	Tier 2

Forest area within protected areas	Tier 3	Tier 2
------------------------------------	--------	--------

## Tier criteria

Category	Tier for status	Tier for reported trend
<ul style="list-style-type: none"> <li>Conservation of biodiversity</li> <li>Forests within protected areas</li> </ul>	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	<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

## 6.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Conservation of biodiversity	meets to definition of FRA-2015	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised and recalculation
Forest area within protected areas	meets to definition of FRA-2015	The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised and recalculation

## Other general comments to the table

The dates 2008 and 2010 have different as compared with previous data because National Forest Inventory was carried out in 2008-2010 and there were using the method of FAO, so the classification of land use was revised and recalculation

## 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	N/A	N/A	N/A	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
N/A	N/A
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

## 7.3.3 Reclassification

## 7.4 Data

Table 7

Scientific name of woody invasive species	Forest area affected (000 ha)	
	2005	2010
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
Total	N/A	N/A

## Tiers

Category	Tier for status	Tier for reported trend
Invasive species	N/A	N/A

## 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	N/A	N/A

#### Other general comments to the table

Data for this chapter are absent, because affection to forest by woody invasive species are not noted

## 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	Results of forest pathological monitoring	State Forest Fund and Protected Areas	1990, 2000, 2007, 2010	State Forest Fund and Protected Areas
2	The book of the fire registration	State Forest Fund and Protected Areas	2007, 2010	State Forest Fund and Protected Areas
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	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.



## 8.2.3 Original data

National category	Averagedatafor5years			
	1990	2000	2005	2010
Number of fires	N/A	11	14	1
Burned area, 1000 ha	N/A	0,94	0,4	0,006
Outbreaks of insects, 1000 ha	70	60	29	15
Outbreaks of diseases, 1000 ha	16	10	0,5	0,5
Severe weather events	0	0	0	0

## 8.3 Analysis and processing of national data

## 8.3.1 Adjustment

No needed
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## 8.3.2 Estimation and forecasting

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## 8.3.3 Reclassification

National category	Category of FRA-2015					Total
	Number of fires	Burned area	Outbreaks of insects	Outbreaks of diseases	Severe weather events	
Number of fires	100%					100%
Burned area		100%				100%

Outbreaks of insects			100%			100%
Outbreaks of diseases				100%		100%
Severe weather events					100%	100%

## 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	39.49	N/A	40.62	N/A	54.68	N/A	81.49	N/A	77.86	N/A
	... of which forest area burned	0.04	N/A	0.1	N/A	0	N/A	0.13	N/A	0.04	N/A
Category		2008		2009		2010		2011		2012	
		000 ha	#	000 ha	#	000 ha	#	000 ha	#	000 ha	#
	Total land area burned	21.03	N/A	25	N/A	16.19	N/A	39.72	N/A	6.16	N/A
	... of which forest area burned	0	N/A	0	N/A	0.04	N/A	0	N/A	0	N/A

Table 8b

Outbreak category	Description/name	Year(s) of latest outbreak	Area damaged (000 hectares)
1	Limantria dispar L. damages walnut forest	2005	30
1	Calioroa Limacina Retz. damages apple and plum plantations	2006-2008	4
1	Hyponomeuta malinellus Zell. damages apple planting	2004-2005	11

N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
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 2
<ul style="list-style-type: none"> <li>• Insects</li> <li>• Diseases</li> <li>• Severe weather events</li> </ul>	Tier 1	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	N/A	N/A

Insects	N/A	N/A
Diseases	N/A	N/A
Severe weather events	N/A	N/A

**Other general comments to the table**

Data for the table 8a are absent, because we don't use remote sensing

## 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	N/A

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	N/A

Other general comments

Data for the table 9 are absent, because we don't use remote sensing
--

## 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 Code	Category, definitions and classification land of forest fund	1999	Legal framework of sustainable forest management
2	Conception of forest sector development	Forest sector of country and other stakeholder	for 2025	Determines the strategy of the State on development of forest sector for 2025 and it is long-term document , which confirm by the Government
3	National Forest Program	Forest sector of country and other stakeholder	for 2015	Determines complex actions on implementation of Conception and it is middle-term document, which confirm by the Government
4	N/A	N/A	N/A	N/A

#### 10.2.2 Classification and definitions

National class	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.
N/A	N/A

N/A	N/A
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## 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			
... of which, in <u>publicly</u> owned forests				
... of which, in <u>privately</u> owned forests				
Legislation and regulations supporting sustainable forest management	yes	yes	yes	yes
... of which, in <u>publicly</u> owned forests				
... of which, in <u>privately</u> owned forests				

## 10.4 Comments

Variable / category	Comments related to data definitions etc
Policies supporting sustainable forest management	meets to definition of FRA-2015
Legislation and regulations supporting sustainable forest management	meets to definition of FRA-2015

## 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	Forest Code	1999	Defines the standart of joint forest managment
2	Conception of forest sector development	2004-2025	Defines the strategy on joint forest management
3	N/A	N/A	N/A
4	N/A	N/A	N/A

Table 11

<b>Is there a national platform that promotes or allows for stakeholder participation in forest policy development?</b>	yes
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### 11.3 Comments

Category	Comments related to data definitions etc
National stakeholder platform	Conception of forest sector development is long-term document, which has the strategical direction on involvement of local population and local communities in the joint forest management

Other general comments

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## 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	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1993,	Table coverage	1993	State Forest Fund territory
2	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1998,	Table coverage	1998	State Forest Fund territory
3	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2003,	Table coverage	2003	State Forest Fund territory
4	Report	Table coverage	2008-2010	Forest and other wood land of country

#### 12.2.2 Classification and definitions

National class	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 (sub-category)	Forest area that is designated by law or regulation to be retained as forest and may not be converted to other land use.
N/A	N/A
N/A	N/A

## 12.2.3 Original data

National category	Areas(1000ha)				
	1993	1998	2003	2008	2013
Forest area intended to be in permanent forest land use	843	849,5	864,9	1123,05	1123,05
...of which permanent forest estate (sub-category)	843	849,5	864,9	1123,05	1123,05

## 12.3 Analysis and processing of national data

## 12.3.1 Adjustment

No needed
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## 12.3.2 Estimation and forecasting

National category	Areas(1000ha)					Areas(1000ha)				
	1993	1998	2003	2008	2013	1990	2000	2005	2010	2015
Forest area intended to be in permanent forest land use	843	849,5	864,9	1123,05	1123,05	800,94	877,04	892,94	1151,1	1151,1



...of which permanent forest estate (sub-category)	843	849,5	864,9	1123,05	1123,05	800,94	877,04	892,94	1151,1	1151,1
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### 12.3.3 Reclassification

National category	Category of FRA-2015		Total
	Forest area intended to be in permanent forest land use	...of which permanent forest estate (sub-category)	
Forest area intended to be in permanent forest land use	100%		100%
...of which permanent forest estate (sub-category)		100%	100%

## 12.4 Data

Table 12

Categories		Forest area 2010 (000 ha)
	Forest area intended to be in permanent forest land use	677
	... of which permanent forest estate	677

Tiers

Category	Tier for status
Forest area intended to be in permanent forest land use	Tier 3
Permanent forest estate	Tier 3

## 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
Forest area intended to be in permanent forest land use	meets to definition of FRA-2015
Permanent forest estate	meets to definition of FRA-2015

## 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 Management Plan	forests and other wood land of country	1995-2013	Forests and toher wood land, state forest fund and protected areas
2	Integrated assessment of natural resources	forest and othe wood land of country	2008-2010	Forests and other wood land of country. Report of the project FAO TCP/KYR/3102 (D) “Capacity Building for National Forest and Tree Resource Assessment and Monitoring”
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 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.
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	100	2010	no	yes	yes	no	no	no
Other field assessments	83	2013	yes	no	no	no	no	no
Updates to other sources	N/A	N/A	no	no	no	no	no	no
Expert estimate	N/A	N/A						

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

The system of forest monitoring and assessment of Kyrgyzstan consist of following separate and complementary activities: • National Forest Inventory • Forest Management Planning National Forest Inventory is 1-st level of the system forest monitoring and assessment, which defines the request of country Forest Management Planning is 2-nd level of the system forest monitoring and assessment, which defines the request of forestry planning (formulate the forest management plan) The project FAO and Brazil Institute Satellite Researches on using satellite process is beginning

### 13.4 Comments

Category	Comments
Forest area monitored under a national forest monitoring framework	meets to definition of FRA-2015
N/A	N/A
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 Management Plans	Forests and other wood land of country	1995-2013	Forests and other wood land, state forest fund and protected areas
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	677
... of which for production	N/A
... of which for conservation	N/A

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>83</b>
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## Tiers

Category	Tier for status
Forest area with management plan	Tier 3
Percent of area under forest management plan that is monitored annually	Tier 3

## 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	meets to definition of FRA-2015
Monitoring of forest management plans	meets to definition of FRA-2015
N/A	N/A

## Other general comments

There are no 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	no
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
Stakeholder involvement	meets to definition of FRA-2015
N/A	N/A
N/A	N/A

Other general comments

There are no comments
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## 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
	N/A	0	0	0	0	0	0	0
	N/A	0	0	0	0	0	0	0
	N/A	0	0	0	0	0	0	0

		2007	2008	2009	2010	2011	2012	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
		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	N/A

## Other general comments

<b>Data for this Chapter are absent, because the certificate of forest using is not using</b>
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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	The book of the report on financing of forest sector	Forests and other wood land	2000, 2005, 2010	State Forest Fund, Protected Areas
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	31373	50725	75967
Public expenditure on forestry	13565	26607	110535
	2000	2005	2010
Name of Local Currency	som	N/A	N/A

**17.4 Comments**

<b>Category</b>	<b>Comments related to data definitions etc</b>
Forest revenue	meets to definition of FRA-2015
Public expenditure on forestry	meets to definition of FRA-2015
Other general comments	N/A

Other general comments

There are no comments

## 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	Constitution of the Kyrgyz Republic	Terminology and definitions related to the ownership	2007	N/A
2	Forest Code of the Kyrgyz Republic	Terminology and definitions related to the ownership	1999	Legal basis on the property rights on forests
3	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1993,	Data / information on the State forest ownership	1993	Account, covering forests of State Forest Fund and Special Protected Nature Territories (OOPT) of the Kyrgyz Republic
4	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 1998,	Data / information on the State forest ownership	1998	Account, covering forests of State Forest Fund and Special Protected Nature Territories (OOPT) of the Kyrgyz Republic
5	Simultaneous State Forest Fund Account of the Kyrgyz Republic for 2003,	Data / information on the State forest ownership	2003	Account, covering forests of State Forest Fund and Special Protected Nature Territories (OOPT) of the Kyrgyz Republic
6	Report	Forests and other wood land	2008-2010	forests and other wood land of country

## 18.2.2 Classification and definitions

National class	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 (sub-category)	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.
N/A	N/A
N/A	N/A

## 18.2.3 Original data

National category	Forest areas(1000ha)			
	1990	2000	2005	2010
Public ownership	836,4	858,3	859,9	1123,05



...of which owned by the state at national scale (sub-category)	836,4	858,3	859,9	1123,05
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### 18.3 Analysis and processing of national data

#### 18.3.1 Adjustment

No needed
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#### 18.3.2 Estimation and forecasting





Национальные категории	Площадь (1000 га)					Площадь (1000 га)				
	1993	1998	2003	2008	2013	1990	2000	2005	2010	2015
Общественная собственность	831,9	804,3	814,6	1050,9	1050,9	799,05	826,2	836,5	1072,8	1072,8
... в т. ч. принадлежащая государству на общенациональном уровне	831,9	804,3	814,6	1050,9	1050,9	799,05	826,2	836,5	1072,8	1072,8
<b>Всего:</b>	<b>831,9</b>	<b>804,3</b>	<b>814,6</b>	<b>1051</b>	<b>1050,9</b>	<b>799,1</b>	<b>826,2</b>	<b>836,5</b>	<b>1072,8</b>	<b>1072,8</b>





## 18.3.3 Reclassification

National category	Category of FRA-2015		Total
	Public ownership	...of which owned by the state at national scale (sub-category)	
Public ownership	100%		100%
...of which owned by the state at national scale (sub-category)		100%	100%

## 18.4 Data

Table 18a

Categories		Forest area (1000 hectares)			
		1990	2000	2005	2010
	Public ownership	836.4	858.3	869.3	677
	... of which owned by the state at national scale	836.4	858.3	869.3	677
	... of which owned by the state at the sub-national government scale	0	0	0	0
	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		836.40	858.30	869.30	677.00

## Tiers

Category	Tier for status	Tier for reported trend
Public ownership	Tier 3	Tier 2
Private ownership	Tier 1	Tier 1
Unknown ownership	Tier 1	Tier 1

## 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	836.4	858.3	869.3	677
Individuals	0	0	0	0
Private companies	0	0	0	0
Communities	0	0	0	0
Other	0	0	0	0

TOTAL	836.40	858.30	869.30	677.00
-------	--------	--------	--------	--------

Category	Tier for reported trend	Tier for status
Public Administration	Tier 3	Tier 2
Individuals	Tier 1	Tier 1
Private companies	Tier 1	Tier 1
Communities	Tier 1	Tier 1
Other	Tier 1	Tier 1

### 18.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Public ownership	meets to definition of FRA-2015	According to the Constitution all forest of country are only public ownership
Private ownership	N/A	N/A
Unknown ownership	N/A	N/A
Management rights	N/A	N/A

#### Other general comments to the table

There are no comments

## 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	Statistical yearbook	2000, 2005,2010	Country's territory	N/A
2	UNECE publication "Employment Trends and Prospects in the European Forest Sector" page 24 (available at: <a href="http://www.unece.org/timber/docs/dp/dp-29.pdf">http://www.unece.org/timber/docs/dp/dp-29.pdf</a> )	1990	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
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).
N/A	N/A
N/A	N/A

## 19.2.3 Original data

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## 19.3 Data

Table 19

Category		Employment (000 years FTE)			
		1990	2000	2005	2010
	Employment in forestry	2.9	4.2	3.1	2.9
	... of which female	N/A	N/A	N/A	0.5

## 19.4 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Employment in forestry	meets to definition of FRA-2015	N/A

<b>Other general comments to the table</b>
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There are no comments
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## 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)	N/A	N/A	N/A

### 20.3 Comments

Category	Comments
N/A	N/A

Other general comments

Given that all the forests of the republic according to the Forest Code of the Kyrgyz Republic are the environmental contribution to the gross domestic product (GDP) is absent.

## 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	Conception of forest sector development	Forest sector of country and other stakeholder	2004-2025	Determines the strategy of the State on development of forest sector for 2025 and it is long-term document , which confirm by the Government
2	National Forest Program	Forest sector of country and other stakeholder	2004-2015	Determines complex actions on implementation of Conception and it is middle-term document, which confirm by the Government
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	1203.26	1303.5

Table 21b

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



**21.4 Comments**

<b>Category</b>	<b>Comments</b>
Government target/aspiration for forest area	meets to the definition of FRA-2015
Forests earmarked for conversion	N/A

Other general comments

There are no comments