

GLOBAL FOREST RESOURCES ASSESSMENT 2015

COUNTRY REPORT

Georgia

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

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Introductory Text

Place an introductory text on the content of this report

Forest is the natural resource of special value for Georgia, it occupies more than one third of its territory and has very significant vital and economical functions. But it is notable that heavy energetic crisis, breaking of infrastructural systems and financial deficiency developed after achieving independence have produced a number of problems which have been reflected on common situation of forest usage and its protection. Illegal cutting, illicit export of raw material, uncontrollable sending of cattle to pastures (usage of pastures) in restricted areas, different pests and diseases have become more frequent.

Woods occupy approximately 40% (2.8225 m h.) of common territory of the country, more than 80% of which is on the gentle slopes (21 degree and above). The circumstance that 95% of forest is of natural origin and 500 thousand hectares of which is the category of virgin forest must be taken into account. At present the most part of land covered by forest is governed by the state. Only 20%-30% of the area is set aside for industrial forest and the other part is functionally recreative and reserve forest. The volume of standing stem trees is estimated as 454 cubic meters (average annual wood increase is 4,5 m cubic meters), i.e. 80 cubic meters per resident, that is three times more than average European index.

In the state Forest Fund 33,4% of middle-aged lots dominate, 35,4% of ripe and oldest lots, that indicates at the necessity of carrying out of complex measures for sanitation and rejuvenation. According to data of Forest Fund the largest part of territories covered with forest is represented with a beech species (approximately 50%). Oak, pine-tree, fir, hornbeam and other wood species and bushes are also located in very important areas. Georgian forests are rich with other wood resources, namely with products of wood and non-wood plants and other resources (among them drug plants, mushrooms and others).

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Desk Study?

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

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

Documents for this question:

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

1.1 Categories and definitions

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

1.2 National data

1.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Ministry of Environment and Nature Resources – National Forest Agency	Forest cover	2011	The distribution of the State ForestFund by forest and land use categories and species composition

2	State Forestry Department of Georgia. State Inventory of the Forest Fund. Tbilisi, 2003.	Forest cover and wood volumes	2003	The distribution of the State Forest Fund by forest and land use categories and species composition
3	Forest Code of Georgia, 1999	Forest cover	From 1999 onwards	Includes definitions of forest and other land uses within the State Forest Fund
4	N/A	N/A	N/A	N/A

1.2.2 Classification and definitions

National class	Definition
Forest	Part of geographic landscape, which includes the unity of trees (defined by the Georgian legislation as parts of forests), lands, bushes, grasses, animals and other objects, which are biologically inter-related and have an impact upon each other as well as environment.
State Forest Fund (SFF)	The integrity of state forest, land and other resources defined as SFF by the Georgian legislation. Includes the land categories listed below in this table.
Forest lands	Open plantations, nurseries, clear-cut areas, fire damaged and dead stands, 0.1 ha and larger fields and forest farm yards.
Agricultural lands	Arable lands, meadows, pastures, orchards and wine yards.
Lands of special use	Hard surface roads and passage ways of various purpose, power and communication lines, oil and gas pipelines, areas allocated for mining, ponds and lands of private households.
Idle lands	Swamps, sands, glaciers and rocks.
Restoration	Restoration of the Georgian Forest Fund is a multi-year cycle of activities, carried out with the purpose of restoration and afforestation of the bare land plots under the Forest Fund or the open stands of the Forest Fund
Forest restoration implies	a) thinning or removing underbrush with the purpose of stimulating natural regeneration of forests, also carrying out tending, protecting, cleaning, planting, and sowing in the managed forests, forest edges, and subalpine open woodlands; b) improving species composition, age structure, quality, productivity, protecting capacity and other values of the forests
Deforestation	N/A

1.2.3 Original data

N a t i o n a l C a t e g o r i e s	A r e a (1 0 0 0 h e c t a r e s)
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	1995	2008	2013
Fore s t	2760. 6	2772.5	2 822.4
wh ic h in c l u d e s s h r u b l a n d s l e s s t h a n 5 m e t e r s	25.0	25.0	25.0
Fore s t l a n d s	72.1	25.9	6.9
w h i c h i n c l u d e s:			
Op e n p l a n t a t i o n s	8.2	2.0	2.0
F i r e - d a m a g e d a n d d e a d s t a n d s	0.5	0.9	3.9
C l e a r - c u t a r e a s	1.0	1.0	1.0
A g r i c u l t u r a l l a n d s	7 1 . 7	5 2 . 6	88.3
L a n d s o f s p e c i a l u s e	1 0 . 0	8 . 3	11.3
Idle l a n d s a n d o t h e r	77.0	55.0	78.7
TOTAL	2991. 4	2914.3	3007.6

1.3 Analysis and processing of national data

1.3.1 Adjustment

1.3.2 Estimation and forecasting

1.3.3 Reclassification

1.4 Data

Table 1a

Categories		Area (000 hectares)				
		1990	2000	2005	2010	2015
	Forest	2752.3	2760.6	2772.5	2822.4	2822.4
	Other wooded land	80	72.1	25.9	6.9	6.9
	Other land	4116.7	4116.3	4150.6	4119.7	4119.7
	... of which with tree cover	N/A	N/A	N/A	N/A	N/A
	Inland water bodies	21	21	21	21	21
	TOTAL	6970.00	6970.00	6970.00	6970.00	6970.00

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	8.3	11.9	49.9	0	0	0	0
	... of which afforestation	N/A	0	0	0	0	0	0	0
	... of which natural expansion of forest	N/A	8.3	11.9	49.9	0	0	0	0
	Deforestation	N/A	0	0	0	0	0	0	0
	... of which human induced	N/A	0	0	0	0	0	0	0
	Reforestation	N/A	0	0	0	0	0	0	0
	... of which artificial	N/A	0	0	0	0	0	0	0

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"> • Forest • Other wooded land • Afforestation • Reforestation • Natural expansion of forest • Deforestation 	Tier 3 : Data sources: Either recent (less than 10 years ago) National Forest Inventory or remote sensing, with ground truthing, or programme for repeated compatible NFIs Tier 2 : Data sources: Full cover mapping / remote sensing or old NFI (more than 10 years ago) Tier 1 : Other	Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other

1.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trends
Forest	N/A	N/A
Other wooded land	N/A	N/A
Other land	N/A	N/A
Other land with tree cover	N/A	N/A
Inland water bodies	N/A	N/A
Forest expansion	N/A	N/A
Deforestation	N/A	N/A
Reforestation	N/A	N/A

Other general comments to the table
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For table 1a: "Other wooded lands" transferred to "forest" in 2010.

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	Ministry of Environment and Nature Resources – National Forest Agency	Forest cover	2011	The distribution of the State ForestFund by forest and land use categories and species composition
2	State Forestry Department of Georgia. State Inventory of the Forest Fund. Tbilisi, 2003.	Forest cover and wood volumes	2003	The distribution of the State ForestFund by forest and land use categories and species composition

3	Forest Code of Georgia, 1999	Forest cover	From 1999 onwards	Includes definitions of forest and other land uses within the State Forest Fund
4	N/A	N/A	N/A	N/A

2.2.2 Classification and definitions

National class	Definition
N/A	Comply with FRA 2015 definitions
N/A	N/A
N/A	N/A
N/A	N/A

2.2.3 Original data

	Area (1000 hectares)				
	Forest				
	1990	2000	2005	2010	2013
Primary	5 0 0	5 0 0	5 0 0	5 0 0	5 0 0
Natural	2198.3	2200.6	2212.0	2250.4	2250.4
Planted forest	54	60	6 0 .5	72.0	72.0
TOTAL	2752.3	2760.6	2772.5	2 822.4	2 822.4

2.3 Analysis and processing of national data

2.3.1 Adjustment

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2.3.2 Estimation and forecasting

As strong change is not observed, the forecast for 2015 remains as the last years.

2.3.3 Reclassification

2.4 Data

Table 2a

Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Primary forest	500	500	500	500	500
	Other naturally regenerated forest	2198.3	2200.6	2212	2250.4	2250.4
	... of which of introduced species	0	0	0	0	0
	... of which naturalized	0	0	0	0	0
	Planted forest	54	60	60.5	72	72
	... of which of introduced species	0	0	0	0	0
TOTAL		2752.30	2760.60	2772.50	2822.40	2822.40

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	0

... of which planted	0	0	0	0	0
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Tiers

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

Tier Criteria

Category	Tier for status	Tier for reported trend
Primary forest/Other naturally regenerated forest/Planted forest	<p>Tier 3 : 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>Tier 2 : Data sources: Full cover mapping/ remote sensing or old NFI (more than 10 years) Tier 1 : Other</p>	<p>Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other</p>

2.5 Comments

Category	Comments related to data definitions etc	Comments on reported trend
Primary forest	Area of primary forest was evaluated with the expert assessment and reflects the area of protected forests. However available data is far insufficient for more detailed evaluation especially on trend of this category.	According to expert estimates and available statistical data, primary forest area remained virtually unchanged in 1990, 2000, 2005 and 2010, 2015.
Other naturally regenerating forest	N/A	N/A
Planted forest	N/A	N/A
Mangroves	N/A	N/A

Other general comments to the table

N/A

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

Documents for this question:

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

3.1 Categories and definitions

Category	Definition
Growing stock	Volume over bark of all living trees with a minimum diameter of 10 cm at breast height (or above buttress if these are higher). Includes the stem from ground level up to a top diameter of 0 cm, excluding branches.
Net Annual Increment (NAI)	Average annual volume of gross increment over the given reference period less that of natural losses on all trees, measured to minimum diameters as defined for "Growing stock".
Above-ground biomass	All living biomass above the soil including stem stump branches bark seeds and foliage.
Below-ground biomass	All biomass of live roots. Fine roots of less than 2 mm diameter are excluded because these often cannot be distinguished empirically from soil organic matter or litter.
Dead wood	All non-living woody biomass not contained in the litter either standing lying on the ground or in the soil. Dead wood includes wood lying on the surface dead roots and stumps larger than or equal to 10 cm in diameter or any other diameter used by the country.
Carbon in above-ground biomass	Carbon in all living biomass above the soil including stem stump branches bark seeds and foliage.
Carbon in below-ground biomass	Carbon in all biomass of live roots. Fine roots of less than 2 mm diameter are excluded because these often cannot be distinguished empirically from soil organic matter or litter.
Carbon in dead wood	Carbon in all non-living woody biomass not contained in the litter, either standing, lying on the ground, or in the soil. Dead wood includes wood lying on the surface, dead roots and stumps larger than or equal to 10 cm in diameter or any other diameter used by the country.
Carbon in litter	Carbon in all non-living biomass with a diameter less than the minimum diameter for dead wood (e.g. 10 cm) lying dead in various states of decomposition above the mineral or organic soil.
Soil carbon	Organic carbon in mineral and organic soils (including peat) to a soil depth of 30 cm.

3.2 National data

3.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Ministry of Environment and Nature Resources – National Forest Agency	Forest cover	2011	The distribution of the State ForestFund by forest and land use categories and species composition
2	State Forestry Department of Georgia. State Inventory of the Forest Fund. Tbilisi, 2003.	Forest cover and wood volumes	2003	The distribution of the State ForestFund by forest and land use categories and species composition
3	Forest Code of Georgia, 1999	Forest cover	From 1999 onwards	Includes definitions of forest and other land uses within the State Forest Fund

4	FRA 2010	N/A	2010	N/A
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3.2.2 Classification and definitions

National class	Definition
Growing stock	Volume over bark of all living trees more than 8 cm in diameter at breastheight (or above buttress if these are higher).
N/A	N/A
N/A	N/A
N/A	N/A

3.2.3 Original data

V o l u m e (m i l l i o n c u b i c m e t e r s o v e r b a r k)										
Fore s t						Other wooded land				
	1990	1995	2003	2013	Differ e n c e p e r y e a r 1990-2013	1990	1995	2003	2013	Differ e n c e p e r y e a r 1995-2013
Growing S t o c k	4 2 1 . 2	4 3 4 . 8	4 5 1 . 7	454.5	33.3	n.a.	n.a.	n.a.	n.a.	n.a.
FRA 2010 ca tego r y / S p e c i e s n a m e						Gro w i n g s t o c k i n f o r e s t (m i l l i o n c u b i c m e t e r s)				
Rank	Scientific n a m e					Com m o n n a m e		2013		
1st	<i>Fag u s o r i e n t a l i s</i>					Beech		229.3		

2nd	<i>Abies nordmanniana</i>	Fir	75.9
3rd	<i>Picea sp p.</i>	Spruce	33.7
4th	<i>Carpinusucasica</i>	Hornbeam	24.6
5th	<i>Quercus spp.</i>	Oak	23.6
6th	<i>Pinus sp p.</i>	Pine	14.6
7th	<i>Alnus barbata</i>	Alder	13.8
8th	<i>Castanea sativa</i>	Chestnut	12.7
9th	<i>Betula litwinowii</i>	Birch	3.5
10th	<i>Acer campestre</i>	Maple	9.2
Remaining			11.6
TOTAL			454.5

3.3 Analysis and processing of national data

3.3.1 Adjustment

3.3.2 Estimation and forecasting

3.3.3 Reclassification

3.4 Data

Table 3a

Category	Growing stock volume (million m ³ over bark)									
	Forest					Other wooded land				
	1990	2000	2005	2010	2015	1990	2000	2005	2010	2015

	Total growing stock	421.2	445.4	455.9	454.5	454.5	N/A	N/A	N/A	N/A	N/A
	... of which coniferous	113.4	121.7	127.5	124.2	124.2	N/A	N/A	N/A	N/A	N/A
	... of which broadleaved	307.8	323.7	328.4	330.3	330.3	N/A	N/A	N/A	N/A	N/A

Table 3b

Category/Species name			Growing stock in forest (million cubic meters)			
Rank	Scientific name	Common name	1990	2000	2005	2010
1 st	Fagus orientalis	Beech	N/A	224.7	225.9	231.3
2 nd	Abies nordmanniana	Fir	N/A	74.7	76.8	75.9
3 rd	Picea spp.	Spruce	N/A	32.4	34.3	33.7
4 th	Carpinus caucasica	Hornbeam	N/A	24.6	24.9	24.6
5 th	Quercus spp.	Oak	N/A	23.6	23.8	23.6
6 th	Pinus spp.	Pine	N/A	14.6	16.4	14.6
7 th	Alnus barbata	Alder	N/A	13.8	13.9	13.8
8 th	Castanea sativa	Chestnut	N/A	12.7	13.4	12.7
9 th	Betula litwinowii	Birch	N/A	3.5	3.6	3.5
10 th	Acer campestre	Maple	N/A	9.2	9.7	9.2
Remaining			N/A	11.6	13.2	11.6
TOTAL			.00	445.40	455.90	454.50

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	N/A
Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)	4	N/A
Minimum diameter (cm) of branches included in growing stock (W)	2	N/A

Volume refers to above ground (AG) or above stump (AS)	AG/AS	N/A
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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 ³ per hectare and year)				
		Forest				
		1990	2000	2005	2010	2015
	Net annual increment	1.8	1.8	1.8	1.8	1.8
	... of which coniferous	2.2	2.2	2.2	2.2	2.2
	... of which broadleaved	1.7	1.7	1.7	1.7	1.7

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	304.11	321.53	329.18	336.8	336.8	N/A	N/A	N/A	N/A	N/A
	Below ground biomass	79.19	83.85	85.71	87.7	87.7	N/A	N/A	N/A	N/A	N/A
	Dead wood	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL		383.30	405.38	414.89	424.50	424.50	.00	.00	.00	.00	.00

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	152.05	160.78	164.59	168.4	168.4	N/A	N/A	N/A	N/A	N/A

	Carbon in below ground biomass	39.59	41.86	42.86	43.85	43.85	N/A	N/A	N/A	N/A	N/A
	<i>Subtotal Living biomass</i>	191.64	202.64	207.45	212.25	212.25	N/A	N/A	N/A	N/A	N/A
	Carbon in dead wood	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon in litter	53.6	53.6	53.6	53.6	53.6	N/A	N/A	N/A	N/A	N/A
	<i>Subtotal Dead wood and litter</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Soil carbon	191.2	191.1	191.1	191.1	191.2	N/A	N/A	N/A	N/A	N/A
TOTAL		436.44	447.34	452.15	456.95	457.05	.00	.00	.00	.00	.00

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
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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	Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other
<ul style="list-style-type: none"> • Carbon in above ground biomass • Carbon in below ground biomass • Carbon in dead wood and litter • Soil carbon 	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	Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other

3.5 Comments on growing stock biomass and carbon

Category	Comments related to data definitions etc	Comments on the reported trend
Total growing stock	Data for 1990 added. We can not estimate growing stock volume according to FRA2015 definition.	N/A
Growing stock of broadleaved coniferous	N/A	N/A
Growing stock composition	N/A	N/A
Net annual increment	Forest inventory was not conducted for last 20 years (we just started). Data is not accurate. In 4.3.2 we have no data.	N/A
Above-ground biomass	Data is from scientific reports. We have no official data.	N/A
Below-ground biomass	N/A	N/A
Dead wood	N/A	N/A
Carbon in above-ground biomass	N/A	N/A

Carbon in below-ground biomass	N/A	N/A
Carbon in dead wood	N/A	N/A
Carbon in litter	N/A	N/A
Soil carbon	N/A	N/A

Other general comments to the table

Biomass and Carbon data Data from 2010 was applied to 2015.

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	Ministry of Environment and Nature Resources – National Forest Agency	Forest cover	2011	The distribution of the State ForestFund by forest and land use categories and species composition
2	State Forestry Department of Georgia. State Inventory of the Forest Fund. Tbilisi, 2003.	Forest cover and wood volumes	2003	The distribution of the State ForestFund by forest and land use categories and species composition
3	Forest Code of Georgia, 1999	Forest cover	From 1999 onwards	Includes definitions of forest and other land uses within the State Forest Fund
4	National Statistics Office of Georgia	N/A	2013	Wood removals

4.2.2 Classification and definitions

National class	Definition
Comply with FRA 2015 definitions	N/A
N/A	N/A
N/A	N/A
N/A	N/A

4.2.3 Original data

Volumes of removed industrial round wood and woodfuel (1000 m ³ , overbark)												
	1988	1990	1991	1992	1998	1999	2000	2001	2002	2005	2008	2012
Industrial round wood	162.9	104	90	55.4	92.4	99.1	110	70.4	80.9	180.3	40.9	62.0
Woodfuel	340.7	239.2	236.6	174.6	257.3	280.2	321.5	273.2	360.2	579.9	752.2	390.5
TOTAL	503.6	343.2	326.6	230	349.7	379.3	431.5	343.6	441.1	760.2	793.1	452.5
No data are available for Non-wood forest products removals and value of removals												

4.3 Analysis and processing of national data

4.3.1 Adjustment

Not applied

4.3.2 Estimation and forecasting

Not applied

4.3.3 Reclassification

Not applied

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	2752.3	2760.6	2770.839	2770.839	2770.839

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	Lari

Category
Plant products / raw material
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
Animal products / raw material
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 ³ u.b.)	
	Total wood removals	...of which woodfuel
1990	343.2	239.2
1991	326.6	236.6
1992	230	174.6
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	349.7	257.3
1999	379.3	280.2
2000	431.5	321.5
2001	343.6	273.2
2002	441.1	360.2
2003	449.7	367.3
2004	542.9	443.3
2005	760.2	579.9
2006	641.164	473
2007	838.006	733
2008	793.1	752.2
2009	697.4	615
2010	798.8	714
2011	595.4	534

Tiers

Category	Tier for status	Tier for reported trend
Production forest	Tier 2	Tier 2
Multiple use forest	Tier 2	Tier 2

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	Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other

4.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Production forest	N/A	N/A
Multiple use forest	N/A	N/A
Total wood removals	Table 4c (FAOSTAT) has been changed according to our official statistics (see 4.2.3.)	N/A
Commercial value of NWFP	N/A	N/A

Other general comments to the table

N/A

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	Ministry of Environment and Nature Resources – National Forest Agency	Forest cover	2011	The distribution of the State ForestFund by forest and land use categories and species composition

2	State Forestry Department of Georgia. State Inventory of the Forest Fund. Tbilisi, 2003.	Forest cover and wood volumes	2003	The distribution of the State Forest Fund by forest and land use categories and species composition
3	Forest Code of Georgia, 1999	Forest cover	From 1999 onwards	Includes definitions of forest and other land uses within the State Forest Fund
4	N/A	N/A	N/A	N/A

5.2.2 Classification and definitions

National class	Definition
Resort forest	Areas of the State Forest Fund falling in the primary and secondary sanitary protection zones, where forest management mainly implies increasing of health improving capacity, sanitary and hygienic condition of forest.
Green zone forest	Forested areas adjacent to cities and other settlements, recreational areas of the Usable State Forest Fund, where forest management mainly implies improvement of recreational, , sanitary, hygienic and aesthetic properties of forests.
Forest for soil protection and water regulation	Areas of the State Forest Fund with special properties and to the forest edges that are not clustered under a separate category.
Protected Areas	Areas of State Forest Fund designated for the protection of relatively large and especially picturesque ecosystems of national and international importance to promote scientific research, education and recreational activities and protect environment

5.2.3 Original data

Category	Total Forest area (1000 hectares)
Resort forest	101.2
Green zone forest	247.1
Forest for soil protection and water regulation	2200.4
Protected Areas	273.7
Total	2 822.4

5.3 Analysis and processing of national data

5.3.1 Adjustment

5.3.2 Estimation and forecasting

5.3.3 Reclassification

5.4 Data

Table 5a

Categories		Forest area (1000 hectares)				
		1990	2000	2005	2010	2015
CFRQ	Protection of soil and water	N/A	2200.4	2200.4	2200.4	2200.4
CFRQ	... of which production of clean water	N/A	N/A	N/A	N/A	N/A
CFRQ	... of which coastal stabilization	N/A	N/A	N/A	N/A	N/A
CFRQ	... of which desertification control	N/A	N/A	N/A	N/A	N/A
CFRQ	... of which avalanche control	N/A	N/A	N/A	N/A	N/A
CFRQ	... of which erosion, flood protection or reducing flood risk	N/A	N/A	N/A	N/A	N/A
CFRQ	... of which other (please specify in comments below the table)	N/A	N/A	N/A	N/A	N/A

Other

N/A

Table 5b

Categories	Forest area (1000 hectares)				
	1990	2000	2005	2010	2015
Ecosystem services, cultural or spiritual values	622	622	622	622	622
...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	0	0	1.661	1.661	1.661
...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 3
Ecosystem services, cultural or spiritual values	Tier 3	Tier 3

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	Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other

<ul style="list-style-type: none"> • Cultural or spiritual values • Public recreation • Spiritual or cultural services • Other 	<p>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</p>	<p>Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other</p>
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5.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Protection of soil and water	N/A	N/A
Production of clean water	N/A	N/A
Coastal stabilization	N/A	N/A
Desertification control	N/A	N/A
Avalanche control	N/A	N/A
Erosion, flood protection or reducing flood risk	N/A	N/A
Other protective functions	N/A	N/A
Ecosystem services, cultural or spiritual values	N/A	N/A
Public recreation	N/A	N/A
Carbon storage or sequestration	N/A	N/A
Spiritual or cultural services	N/A	N/A
Other ecosystem services	N/A	N/A

Other general comments to the table

Table 5.2.3 Do not understand the question

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	Ministry of Environment and Nature Resources – National Forest Agency	Forest cover	2011	The distribution of the State Forest Fund by forest and land use categories and species composition
2	State Forestry Department of Georgia. State Inventory of the Forest Fund. Tbilisi, 2003.	Forest cover and wood volumes	2003	The distribution of the State Forest Fund by forest and land use categories and species composition
3	Forest Code of Georgia, 1999	Forest cover	From 1999 onwards	Includes definitions of forest and other land uses within the State Forest Fund
4	Ministry of Environment and Nature Resources - Agency of Protected Areas	N/A	2011	N/A

6.2.2 Classification and definitions

National class	Definition
According to IUCN categories.	N/A
N/A	N/A
N/A	N/A
N/A	N/A

6.2.3 Original data

There are 64 Protected Areas of different categories according to the IUCN:

- 14 Strict Nature Reserves
- 10 National Parks
- 18 Managed Nature Reserves
- 24 Natural Monuments
- 2 Protected Landscapes

Protected Areas(1000 hectares)

1	Strict Nature Reserves	140,9
2	National Parks	276,8
3	Managed Nature Reserves	66,8
4	Natural Monuments	0,8
5	Protected Landscapes	34,9
	Total	520.2

6.3 Analysis and processing of national data

6.3.1 Adjustment

Not applied

6.3.2 Estimation and forecasting

Not applied

6.3.3 Reclassification

6.4 Data

Table 6

Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Conservation of biodiversity	0	0	0	0	0
	Forest area within protected areas	N/A	273.7	273.7	273.7	273.7

Tiers

Category	Tier for status	Tier for reported trend
Conservation of biodiversity	Tier 3	Tier 3
Forest area within protected areas	Tier 3	Tier 3

Tier criteria

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

6.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Conservation of biodiversity	We have not official category of forest defined by FRA2015 as Conservation of Biodiversity.	N/A
Forest area within protected areas	N/A	N/A

Other general comments to the table

N/A

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

7.2.3 Original data

No data are available

7.3 Analysis and processing of national data

7.3.1 Adjustment

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
1.	N/A	N/A
2.	N/A	N/A
3.	N/A	N/A
4.	N/A	N/A
5.	N/A	N/A
6.	N/A	N/A
7.	N/A	N/A
8.	N/A	N/A
9.	N/A	N/A

10.	N/A	N/A
Total	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
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	Tier 3 : Estimate based on repeated compatible tiers 3 (tier for status) Tier 2 : Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1 : Other

7.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Invasive species	No data	N/A

Other general comments to the table

N/A

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	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

8.2.2 Classification and definitions

National class	Definition
N/A	N/A

8.2.3 Original data

Forest fires (ha) 2000-2013		
	Number of fires	Forest fires (ha)
2000	34	85
2001	28	148
2002	36	607
2003	5	52
2004	21	32
2005	23	44.8
2006	95	765.77
2007	6	3.4
2008	32	1269.5
2009	7	60.4
2010	21	371.1
2011	4	7.0
2012	11	198.95
Average 2000-2012		280.3
Outbreaks of insects (ha)		
	Outbreaks of insects	Studied area (ha)

2011	<i>Ips typographus</i>	26 267
Outbreaks of diseases		
	Outbreaks of diseases	Studied area (ha)
2005	<i>Endothia parasitica</i>	5825
2009	<i>Endothia parasitica</i>	8635

Major outbreaks of insects and diseases affecting forest health and vitality

Descript io n / name	Tree sp ec i es or ge n era af f ec t ed (scientific name)	Year(s) of latest o u t b reak	Area affected (1000 h ectares)	If cyclic , approx. c y cle (ye a rs)
Dendroc to nus micans	Picea	1 96 4 -till no w per i odically	n.a.	
I p s ty p ographus L.	Picea	2003	n.a.	
De nd roli m us p ini L.	Pinus	1 98 2 -till no w per i odically	n.a.	
Neo d ipr i on sertifer G e offr.	Pi nu s	1 99 0 -till no w per i odically	n.a.	

Lymantria didymata L.	Quercus, Carpinus cucasica etc.	1998	n.a.	
Eranis defoliaria L.	Quercus, Carpinus cucasica etc.	1996	n.a.	
Cryphonectria parasitica	Castanea	2003	n.a.	

Severe weather events - Not available

8.3 Analysis and processing of national data

8.3.1 Adjustment

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8.3.2 Estimation and forecasting

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8.3.3 Reclassification

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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	N/A	N/A								
	... of which forest area burned	0.052	5	0.032	21	0.448	23	0.766	95	0.034	6
Category		2008		2009		2010		2011		2012	
		000 ha	#								
	Total land area burned	N/A	N/A								
	... of which forest area burned	1.2695	32	0.06	7	0.371	21	7	4	0.199	11

Table 8b

Outbreak category	Description/name	Year(s) of latest outbreak	Area damaged (000 hectares)
Insects	Ipstypographus	2011	26.3
Diseases	Endothiaparasitica	2009	8.6
N/A	N/A	N/A	N/A
Insects	Dendroctonusmicans	1964-tillnow periodically	N/A
Insects	Dendrolimuspinil.	1982-tillnow periodically	N/A
Insects	NeodiprionsertiferGeoffr	1990-tillnow periodically	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 3	Tier 3
<ul style="list-style-type: none"> Insects Diseases Severe weather events 	Tier 2	Tier 1

Tier criteria

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

8.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Burned area	In 2008 was totally 32 cases of forest fire, but small ones. One big forest fire (in 2008) was in Borjomi region due to Russian military attack and around 1000 ha forest was burned. For 2008 (Russia-Georgia war) we had good inventory.	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

N/A

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

Documents for this question:

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

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

Table 9

Category	Area of forest with reduced canopy cover (000 ha)
Reduction in canopy cover	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	Tier 3 : Remote sensing with ground truthing and/or Landsat imagery Tier 2 : Remote sensing using Modis (using pre-filled data provided by FAO) Tier 1 : Expert opinion

Comments

Category	Comments related to data definitions etc
Reduction in canopy cover	There is a trend, but accurate data is not available

Other general comments

No data are available

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	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

10.2.2 Classification and definitions

National class	Definition
N/A	N/A

10.2.3 Original data

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Forest policy statement	accepted by parliament 2013
National forest programme (nfp)	A national forest programme is planned for the near future. At the moment, a working group, has been established.
Law (Act or Code) on forest with national scope	“Forest Code” of Georgia 1999
regulations supporting sustainable management of forests	approved by the government, NN 96, 132, 136, 240, 241, 242

10.3 Data

Table 10

Category				
	National	Sub-national		
		Regional	Provincial/State	Local
Policies supporting sustainable forest management	yes			
... of which, in publicly owned forests	yes			
... of which, in privately owned forests	yes			

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

10.4 Comments

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

Other general comments

Tiers not applicable

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 policy statement	2013	N/A
2	“Forest Code” of Georgia	1999	N/A
3	regulations supporting sustainable management of forests	N/A	approved by the government, NN 96, 132, 136, 240, 241, 242
4	N/A	N/A	N/A

Table 11

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

Category	Comments related to data definitions etc
National stakeholder platform	N/A

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	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	Forest policy statement	N/A	2013	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

12.2.2 Classification and definitions

National class	Definition
N/A	N/A

12.2.3 Original data

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12.3 Analysis and processing of national data

12.3.1 Adjustment

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12.3.2 Estimation and forecasting

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12.3.3 Reclassification

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12.4 Data

Table 12

Categories		Forest area 2010 (000 ha)
CFRQ	Forest area intended to be in permanent forest land use	2822.4
CFRQ	... of which permanent forest estate	2822.4

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	Tier 3 : National or sub-national land use plans strategy documents or other reports within the past 10 years Tier 2 : National or sub-national land use plans strategy documents or other reports within the past 20 years Tier 1 : Other
Permanent forest estate	Tier 3 : National or sub-national land use plans strategy documents or other reports within the past 10 years Tier 2 : National or sub-national land use plans strategy documents or other reports within the past 20 years Tier 1 : Other

12.5 Comments

Category	Comments related to data definitions etc
Forest area intended to be in permanent forest land use	There is adequacy between FRA2015 and national definition.
Permanent forest estate	N/A

Other general comments

--

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	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	Ministry of Environment and Nature Resources - Agency of Protected Areas	N/A	2013	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

13.2.2 Classification and definitions

National class	Definition
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	72	1997	no	yes	no	yes	no	no
Other field assessments	N/A	N/A	no	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)	yes
4 None	no

Other type of forest reporting
N/A

13.4 Comments

Category	Comments
N/A	N/A
N/A	N/A
N/A	N/A

Other general comments

--

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	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

14.3 Data

Table 14a

Forest plan type	Forest area 2010 (000 ha)
Forest area with management plan	2822.4
... of which for production	2548.7
... of which for conservation	273.7

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

Percent of area under forest management plan that is monitored annually	100
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Tiers

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

Tier criteria

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

14.4 Comments

Category	Comments
N/A	N/A
N/A	N/A
N/A	N/A

Other general comments

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

Documents for this question:

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

15.1 Categories and definitions

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

Table 15

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

Tiers

Category	Tier for status
Type of stakeholder inputs	Tier 3

Tier criteria

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

15.2 Comments

Category	Comments
N/A	Forest Code (1999), Law on Environmental Protection (1996) and National Forestry Concept (2013).
N/A	N/A
N/A	N/A

Other general 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
	1.Name	0	0	0	0	0	0	0
	2.Name	0	0	0	0	0	0	0
	3.Name	0	0	0	0	0	0	0

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

Tier criteria

Category	Tier for status
International 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
Domestic 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
International forest management certification	N/A
Domestic 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	All government revenue collected from the domestic production and trade of forest products and services. For this purpose revenue include: Goods: roundwood; sawnwood; biomass; wood-based panels; pulp and paper; and non-wood forest products. Services: 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
Domestic forest management certification	All government expenditure on forest related activities.

Other general comments

Working group on forest certification was established recently.

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"> • <u>Goods</u> : roundwood; sawnwood; biomass; woodbased panels; pulp and paper and non-wood forest products. • <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.
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	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

17.3 Data

Table 17

Category	Revenues / expenditures (000 local currency)		
	2000	2005	2010
Forest revenue	N/A	N/A	3745
Public expenditure on forestry	N/A	N/A	11745
	2000	2005	2010
Name of Local Currency	GEL	N/A	N/A

17.4 Comments

Category	Comments related to data definitions etc
Forest revenue	N/A
Public expenditure on forestry	N/A
Other general comments	N/A

Other general comments

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

Documents for this question:

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

18.1 Categories and definitions

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

18.2 National data

18.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

18.2.2 Classification and definitions

National class	Definition
N/A	N/A

18.2.3 Original data

FRA 2015 Categories	2013
Public ownership	2 822.4
...of which owned by the state at national scale	2 822.4
...of which owned by the state at the sub-national government scale	0
Private ownership	0
...of which owned by individuals	0
...of which owned by private business entities and institutions	0
...of which owned by local, tribal and indigenous communities	0

Unknown ownership	0
TOTAL	2 822.4

18.3 Analysis and processing of national data

18.3.1 Adjustment

18.3.2 Estimation and forecasting

18.3.3 Reclassification

18.4 Data

Table 18a

Categories		Forest area (1000 hectares)			
		1990	2000	2005	2010
	Public ownership	2752.3	2760.6	2772.5	2822.4
	... of which owned by the state at national scale	2752.3	2760.6	2772.5	2822.4
	... 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		2752.30	2760.60	2772.50	2822.40

Tiers

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

Tier criteria

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

Table 18b - Holder of management rights of public forests

Categories	Forest area (000 hectares)			
	1990	2000	2005	2010
Public Administration	2752.3	2760.6	2772.5	2661.4
Individuals	0	0	0	0
Private companies	0	0	0	161
Communities	0	0	0	0
Other	0	0	0	0
TOTAL	2752.30	2760.60	2772.50	2822.40

Category	Tier for reported trend	Tier for status
Public Administration	Tier 3	Tier 3

Individuals	Tier 3	Tier 3
Private companies	Tier 3	Tier 3
Communities	Tier 3	Tier 3
Other	Tier 3	Tier 3

18.5 Comments

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

Other general comments to the table

N/A

19. How many people are directly employed in forestry?

Documents for this question:

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

19.1 Categories and definitions

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

19.2 National data

19.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

19.2.2 Classification and definitions

National class	Definition
Comply with FRA 2015 definitions	N/A
N/A	N/A
N/A	N/A
N/A	N/A

19.2.3 Original data

Category	2013
Employment in forestry	677

... of which female	87
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19.3 Data

Table 19

Category		Employment (000 years FTE)			
		1990	2000	2005	2010
	Employment in forestry	N/A	2.118	2.017	0.688
	... of which female	N/A	N/A	0.167	0.089

19.4 Comments

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

Other general comments to the table
N/A

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)	85.6	GEL	2012

20.3 Comments

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

Other general comments

	2005	2008	2009	2010	2011	2012
Gross value added from forestry (at basic prices) Million Lari	86.0	70.2	64.0	63.1	82.6	85.6
GDP(Million Lari)	6 618.8	19 074.9	17 986.0	20 743.3	24 344.0	26 138.9
%	1.3	0.4	0.35	0.3	0.34	0.32

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	Ministry of Environment and Nature Resources – National Forest Agency	N/A	2013	Ministry of Environment and Nature Resources – National Forest Agency
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

21.3 Data

Table 21a

Category	Forest area (000 ha)	
	2020	2030
Government target/aspiration for forest area	2832.5	2852.5

Table 21b

Category	Forest area (000 ha)
	2013
Forests earmarked for conversion	N/A

21.4 Comments

Category	Comments
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Government target/aspiration for forest area	N/A
Forests earmarked for conversion	Around 20% of Forest will be under the protected areas.

Other general comments

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