

# GLOBAL FOREST RESOURCES ASSESSMENT 2015

## COUNTRY REPORT

# **Azerbaijan**

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

**No report has been received from the country. This report is the result of a desk study prepared by the FRA secretariat in Rome, which is based on the existing available information using the established format for FRA 2015/CFRQ format**

### Desk Study?

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

## 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	UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand	(Forest, OWL) Forest, OWL, Other land	1983,1988	Secondary data source.

2	FAO, 2001. Global Forest Resources Assessment 2000. FAO Forestry Paper 140.	N/A	1990, 2000	Secondary data source.
3	FAOSTAT data, 2007.	Total area, Land area	All years	N/A
4	UNECE environmental performance review, Azerbaijan, 2004, Environmental Performance Reviews Series No.19. <a href="http://www.countryanalyticwork.net/CAW/Cawdoclib.nsf/0/7E8C14AF9756CDC485256FB00048D69F/\$file/pdf+file+with+maps.pdf">http://www.countryanalyticwork.net/CAW/Cawdoclib.nsf/0/7E8C14AF9756CDC485256FB00048D69F/\$file/pdf+file+with+maps.pdf</a>	Woodland area	1984,2001	Secondary data source.
5	State Land and Cartography Committee of Azerbaijan Republic, The State Statistical Committee of Azerbaijan Republic, <a href="http://www.azstat.org/statinfo/environment/en/010.shtml#s1">http://www.azstat.org/statinfo/environment/en/010.shtml#s1</a>	Wooded area	1990,2000, 2004	N/A
6	UNECE/FAO 2000 enquiry data, Manuscript, July 1999	Land reserved for Forestry, Forest, OWL,	1999	N/A
7	Salmanov, S. 2005. Azerbaijan Forest Resources Assessment for Sustainable Forest Managemen. UNECE/FAO Workshop on Capacity Building in Sharing Forest and Market Information. 2005. <a href="http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf">http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf</a>	Forest land, Forest	N/A	Secondary data source.
8	The State Statistical Committee of Azerbaijan Republic, <a href="http://www.azstat.org/statinfo/environment/en/">http://www.azstat.org/statinfo/environment/en/</a>	Reforestation area	1999- 2003	Secondary data source.
9	Salmanov, S. 2005. Azerbaijan Forest Resources Assessment for Sustainable Forest Managemen. UNECE/FAO Workshop on Capacity Building in Sharing Forest and Market Information. 2005. <a href="http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf">http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf</a>	sapling and seedling, natural regeneration	2003-2005	Secondary data source.

10	UNECE environmental performance reviews, Azerbaijan, Second Review, 2011. <a href="http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/Synopsis/Azerbaijan%20ECE.CEP.158.synopsis%20english.pdf">http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/Synopsis/Azerbaijan%20ECE.CEP.158.synopsis%20english.pdf</a> <a href="http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/azerbaijan%20II.pdf">http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/azerbaijan%20II.pdf</a>	Forest area	2011	Secondary data source.
11	The State Statistical Committee of Azerbaijan Republic, <a href="http://www.stat.gov.az/source/agriculture/indexen.php#007">http://www.stat.gov.az/source/agriculture/indexen.php#007</a>	Forest area	2000-2012	Secondary data source.

### 1.2.2 Classification and definitions

National class	Definition
Forest area	The classification and definitions used in the UNECE/FAO 2000 report are the same as those being used by FRA 2010 and 2015.
N/A	N/A
N/A	N/A
N/A	N/A

### 1.2.3 Original data

Forest area												
Main indicators of forest funds												
(at the end of year)												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011

Total area of the country, thsd ha	8660	8660	8660	8660	8660	8660	8660	8660	8660	8660	8660	8660
Total area of forest fund lands, thsd ha	1037.4	1037	1037.8	1037.8	1037.8	1037.8	1037.8	1038.8	1038.8	1039.9	1040.7	1040.8
their share in country's area, percent	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Dry lands from total area of the country, thsd ha	8260.4	8261.8	8265.2	8267.2	8265	8263.7	8262.9	8262.7	8262.7	8262.7	8265.5	8265.8
Forested area, thsd ha	871.8	872.5	873.1	874.2	876.1	877.2	879.1	989.3	996.5	1001.6	1008.3	1021.0



their share in country's area, percent	10.6	10.6	10.6	10.6	10.6	10.6	10.6	12.0	12.1	12.1	12.2	12.4
Total tree resources, million cubic meter	133.0	134.0	136.0	137.0	138.0	139.0	140.0	140.5	141.8	143.3	144.2	148.8

The State Statistical Committee of Azerbaijan Republic <http://www.stat.gov.az/source/agriculture/indexen.php#007>

### Forest expansion, reforestation

Reforestation in forests of state importance												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of forestries, unit	32	32	34	36	38	38	40	40	42	43	41	40
Reforestation in forest fund lands - total, thsd. ha	5.3	5	7.5	8.7	9.1	9,7	10.1	10.5	10,9	10,7	10.6	10.5

including:												
sowing and planting of forests	2.0	2.0	3.1	3.7	3.7	3.9	3.8	3.9	3,9	3,5	3.5	3.1
provision of support to natural renovation of forests	3.3	3	4.4	5	5.4	5,9	6.3	6.6	7,1	7,2	7.2	7.4
Share of forest planting and sowing areas in total area where reforestation works were carried out, in percent	37.7	40.0	41.3	42.5	40.7	40.2	37.6	37.1	35.8	32,7	33.0	29.5

Planting of manmade forests in ravines, gorges and other useless agricultural lands, ha	265.0	113.0	132.0	147.0	164.0	65.0	66.0	5.0	284.0	984.0	434.0	516.0
Raising of young trees in forest fund lands and moving them into the category of forested areas and groves, thsd ha	3.3	2.0	3.2	3.1	3.6	3.8	4.9	4.4	4.2	5.1	6.7	7.8
including:												

through creation by method of forest planting and sowing	0.8	0.6	1.0	0.9	1.3	0.9	1.5	1.5	1.5	2.0	2.5	2.9
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The State Statistical Committee of Azerbaijan Republic <http://www.stat.gov.az/source/agriculture/indexen.php#007>

### 1.3 Analysis and processing of national data

#### 1.3.1 Adjustment

<p><b>Forest area</b></p> <p>For the Inland water area, the FAOSTAT estimate (397.1) is applied. This calibration is applied to the Other land category in the National reporting table.</p> <p><b>Forest expansion, reforestation</b></p> <p>The average of reforestation between 2000-2002 is used to report the year 2000 and the average of 2003-2007 of reforestation is used to report the year 2005 and the average of reforestation between 2008-2011 is used to report the year 2010.</p>
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#### 1.3.2 Estimation and forecasting

<p><b>Forest area</b></p> <p><b>UNECE/FAO, 2000</b> reported that the forest area in Azerbaijan between 1987-1997 has been growing in average 2000 hectares per year. This figure has been used to extrapolate the forest area for the year 1990 from year 2000 figure. This differs quite a bit from the previous FRA estimates, but in the light of the new information it is most likely closer to the actual forested area in 1990.</p>
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## 1.3.3 Reclassification

**Forest area**

No further reclassification is needed, as the national data are already presented according to the FRA categories.

**1.4 Data**

Table 1a













Categories		Area (000 hectares)				
		1990	2000	2005	2010	2015
	Forest	851.8	871.8	877.2	1008.3	1139.4
	Other wooded land	0	0	0	0	0
	Other land	7411.2	7388.7	7388.8	7257.3	7126.4
	... of which with tree cover	N/A	N/A	N/A	N/A	N/A
	Inland water bodies	397	399.5	394	394.4	394.2
	TOTAL	8660.00	8660.00	8660.00	8660.00	8660.00

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	N/A	N/A	N/A	N/A	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	N/A	5.9	9.6	10.7	N/A	N/A	N/A	N/A
	... of which artificial	N/A	2.4	3.8	3.5	N/A	N/A	N/A	N/A

**Tiers**

Category	Tier for status	Tier for reported trend
Forest	Tier 1	Tier 1

Other wooded land	Tier 1	Tier 1
Forest expansion	N/A	N/A
Deforestation	N/A	N/A
Reforestation	Tier 1	Tier 1

## Tier criteria

Category	Tier for status	Tier for reported trend
<ul style="list-style-type: none"> <li>• Forest</li> <li>• Other wooded land</li> <li>• Afforestation</li> <li>• Reforestation</li> <li>• Natural expansion of forest</li> <li>• Deforestation</li> </ul>	<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	<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

## 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

N/A

## 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 <b>outside</b> 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	UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand (TBFRA 2000)	Forest and other wooded land by categories of “naturalness”	1997	Secondary data source.

2	The State Statistical Committee of Azerbaijan Republic, <a href="http://www.azstat.org/statinfo/environment/en/">http://www.azstat.org/statinfo/environment/en/</a>	Reforestation area	1999- 2003	Secondary data source.
3	UNECE environmental performance reviews, Azerbaijan, Second Review, 2011. <a href="http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/Synopsis/Azerbaijan%20ECE.CEP.158.synopsis%20english.pdf">http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/Synopsis/Azerbaijan%20ECE.CEP.158.synopsis%20english.pdf</a> <a href="http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/azerbaijan%20II.pdf">http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/azerbaijan%20II.pdf</a>	Forest area	2011	Secondary data source.
4	The State Statistical Committee of Azerbaijan Republic, <a href="http://www.stat.gov.az/source/agriculture/indexen.php#007">http://www.stat.gov.az/source/agriculture/indexen.php#007</a>	Forest area	2000-2012	Secondary data source.
5	The State Statistical Committee of Azerbaijan Republic, <a href="http://www.azstat.org/statinfo/environment/en/">http://www.azstat.org/statinfo/environment/en/</a>	Reforestation area	1999- 2003	N/A

### 2.2.2 Classification and definitions

National class	Definition
Undisturbed by man	No human disturbance at all or disturbance so long ago that natural processes have been completely re-established.
Semi-natural forest/other wooded land	Forest / Other wooded land that is neither “Forest / Other wooded land undisturbed by man” nor “Plantation”.
Plantation(s)	Forest stands established by planting or/and seeding in the process of afforestation or reforestation. They are either: • Of introduced species (all planted stands), or • Intensively managed stands of indigenous species which meet all the following criteria: one or two species at plantation, even age class, regular spacing.
N/A	N/A

### 2.2.3 Original data

The reforestation by sowing and planting has been on average 3342 ha/y in Azerbaijan between 2000-2011 (*Reestablishment of forests of state importance, The State Statistical Committee of Azerbaijan Republic*).

## 2.3 Analysis and processing of national data



## 2.3.1 Adjustment

## 2.3.2 Estimation and forecasting

Category	1990, Area (1000ha)	2000, Area (1000ha)	2005, Area (1000ha)	2010 Area (1000 ha)
Forests	851.8	871.8	877.2	1008.3
Undisturbed by man	na	na	na	na
Semi-natural	na	na	na	na
Plantations	na	na	na	na
Other wooded land	na	na	na	na
Undisturbed by man	na	na	na	na
Semi-natural	na	na	na	na

## 2.3.3 Reclassification

Primary forest has been reclassified as primary forest in accordance with the FRA 2010 definition and plantations has been reclassified as planted forest. The difference between the total forest area, the primary forest and the plantations, gives the area reported by UNECE/FAO 2000 as “semi-natural” forest and this area has been assumed to correspond to the other naturally regenerated forest of FRA 2010. It should be noted that since no information on the regeneration method was available, the previous assumptions may lead to an overestimation of the other naturally regenerated forest, which may include a part of the planted forest.

## 2.4 Data

Table 2a

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







	Primary forest	N/A	N/A	N/A	N/A	N/A
	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	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
TOTAL		.00	.00	.00	.00	.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	0
... of which planted	0	0	0	0	0

## Tiers

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

## Tier Criteria

Category	Tier for status	Tier for reported trend
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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>
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## 2.5 Comments

Category	Comments related to data definitions etc	Comments on reported trend
Primary forest	N/A	N/A
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	UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand (TBFRA 2000)	growing stock Above stump biomass, Biomass of stumps and roots	1983,1988	Secondary data source.
2	UNECE environmental performance review, Azerbaijan, 2004, Environmental Performance Reviews Series No.19.	Forest area, fellings	2000,2003	Secondary data source.

3	Ministry of Ecology and Natural Resources of Azerbaijan Republic, WWW-pages, <a href="http://eco.gov.az/v2.1/en/forest/">http://eco.gov.az/v2.1/en/forest/</a> , date 18.3.2005.	Growing stock	N/A	Secondary data source.
4	Salmanov, S. 2005. Azerbaijan Forest Resources Assessment for Sustainable Forest Management. UNECE/FAO Workshop on Capacity Building in Sharing Forest and Market Information. 2005. <a href="http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf">http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf</a>	Growing stock, Growing stock by tree species	N/A	Secondary data source.
5	National reporting tables on biomass stock	Woody biomass: above stump, stump and root biomass	N/A	N/A
6	The State Statistical Committee of Azerbaijan Republic, <a href="http://www.stat.gov.az/source/agriculture/indexen.php#007">http://www.stat.gov.az/source/agriculture/indexen.php#007</a>	Forest area, Growing stock	2000-2012	Secondary data source.

### 3.2.2 Classification and definitions

National class	Definition
Growing stock	The living tree component of the standing volume
Growing stock on forest available for wood supply	GS on forest where legal, economic or specific environmental restrictions do not have any significant impact on the supply of wood
Biomass stock	The UNECE/FAO 2000 report distinguishes two categories of biomass: Above-stump biomass and Stump and root biomass. There is a small difference in the definitions of the biomass fractions as compared to FRA regarding the stump biomass. In UNECE/FAO 2000 the stump biomass is grouped together with the root biomass, while in FRA the above-ground portion of the stump belongs to Above-ground biomass.
Carbon stock	The UNECE/FAO 2000 reports on two categories: Carbon in above-stump biomass and Carbon in stump and rood biomass. There is a small difference in the definitions of the biomass fractions as compared to FRA, regarding the stump biomass. In UNECE/FAO 2000 the stump biomass is grouped together with the root biomass, while in FRA the above-ground portion of the stump belongs to Above-ground biomass.

### 3.2.3 Original data

<b>Growing stock</b>
----------------------

Category	2005	2011
Growing stock on Forest (1000 m3)	139000	148800
...of which available for wood supply (1000 m3)	na	na
Growing stock on OWL (1000 m3)	na	na

Source: The State Statistical Committee of Azerbaijan Republic,

Distribution of major wood species by wood reserves and areas (Salmanov, 2005):

Wood species	Covered with forest		Total reserves of wood	
	Ths. ha	From the whole area, %	Million m 3	From total reserves %
<b>Coniferous including</b>	13.7	100	0.35	100
Pine	2	14.6	0.1	28.6
Juniper	11.7	85.4	0.25	71.4
<b>Hardleaved Total Including</b>	848.3	100	119.89	100
Oak	323.39	36	30.17	24.4
Beech	326.98	36.4	64.3	52
Larch	229.07	25.5	28.19	22.8
Ashtree	8.08	0.9	0.26	0.2
Birch	2.6	0.3	0.49	0.4
Elm	0.99	0.1	0.03	0

Locust	7.19	0.8	0.3	0.2
<b>Softleaved Total</b>	53.9	100	3.11	100
Birch	2.85	5.3	0.09	3
Poplar	8.53	15.9	0.49	15.5
Alder	17.31	32.8	1.25	40.1
Linden	2.26	4.2	0.18	5.9
Poplar	13.49	25.4	0.85	23.1
Willow	8.82	16.4	0.28	8.9
<b>Other</b>	53.3	6.2	3.77	3.1
<b>Shrubs</b>	20.1	2.2	0.32	0.3
<b>Total</b>	989.3	100	127.44	100

### Biomass stock

The 1988 data presented in the following table has been obtained from UNECE/FAO 2000 and the original questionnaire received from Azerbaijan for UNECE/FAO 2000. The original data will then be as follows:

Category	1988, Tg biomass (Oven dry weight)	
	Forest	OWL & trees outside forest
Above stump biomass	98.58	ID
Stump and root biomass	17.25	ID
Proportion of Above stump biomass of total BM	0.8512	ID
Total woody biomass	115.83	ID

Source: UNECE/FAO 2000, reference year 1988.

Note that one Teragram (Tg) is  $1 \times 10^{12}$  g and equals one million metric tonne. The above data only refer to Forest. No information on biomass of dead wood was found.

### **Carbon stock**

Forest carbon data were estimated using biomass data multiplied by the default conversion factor of 0.47.

## **3.3 Analysis and processing of national data**

### **3.3.1 Adjustment**

#### **Growing stock**

No calibration was needed.

#### **Biomass and carbon stock**

No calibration was needed.

### **3.3.2 Estimation and forecasting**

#### **Growing stock**

Quotation : The State is currently carrying out a system of sanitary cuttings, which is explained as the necessary actions to maintain the forests in a healthy condition. The Ministry of Ecology and Natural Resources states that from 50,000 to 60,000 m<sup>3</sup> of forests are cut each year under this policy ( *UNECE environmental performance review 2011* )

It was also roughly estimated that an additional 30,000-40,000 m<sup>3</sup> per year is cut illegally.” ( *UNECE environmental performance review 2004* )



**Quotation** : “Wood capacity in pistachio forests is 59,73 million cubic meters, oak forests is 27,97 million cubic meters and hornbeam forests is 26,22 million cubic meters. The overall wood capacity of mountain forests is 110,92 million cubic meters or 81,4 percent” ( *Ministry of Ecology and Natural Resources of Azerbaijan Republic*).

### Biomass stock

### 3.3.3 Reclassification

The estimate for 2015 was done by extrapolating the average annual growing stock growth between 2005-2010 to year 2015.

### 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	N/A	133	139	144.2	149.2	N/A	N/A	N/A	N/A	N/A
	... of which coniferous	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	... of which broadleaved	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A
2 nd	N/A	N/A	N/A	N/A	N/A	N/A
3 rd	N/A	N/A	N/A	N/A	N/A	N/A
4 th	N/A	N/A	N/A	N/A	N/A	N/A
5 th	N/A	N/A	N/A	N/A	N/A	N/A
6 th	N/A	N/A	N/A	N/A	N/A	N/A

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			N/A	N/A	N/A	N/A
TOTAL			.00	.00	.00	.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)	n.a.	N/A
Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)	n.a.	N/A
Minimum diameter (cm) of branches included in growing stock (W)	n.a.	N/A
Volume refers to above ground (AG) or above stump (AS)	n.a.	N/A

**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	N/A	N/A	N/A	N/A	N/A
	... of which coniferous	N/A	N/A	N/A	N/A	N/A
	... of which broadleaved	N/A	N/A	N/A	N/A	N/A

Table 3d

Category		Biomass (million metric tonnes oven-dry weight)								
		Forest					Other wooded land			
		1990	2000	2005	2010	2015	1990	2000	2005	2010











	Above ground biomass	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Below ground biomass	N/A	N/A	N/A	N/A	N/A	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		.00	.00	.00	.00	.00	.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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Carbon in below ground biomass	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	<i>Subtotal Living biomass</i>	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	<i>Subtotal Dead wood and litter</i>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Soil carbon	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

## Tiers

Variable/category	Tier for status	Tier for trend
Total growing stock	Tier 1	Tier 1
Net annual increment	N/A	N/A
Above ground biomass	N/A	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 and litter	N/A	N/A
Soil carbon	N/A	N/A

### Tier criteria

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

### 3.5 Comments on growing stock biomass and carbon

Category	Comments related to data definitions etc	Comments on the reported trend
Total growing stock	N/A	N/A

Growing stock of broadleaved coniferous	N/A	N/A
Growing stock composition	N/A	N/A
Net annual increment	N/A	N/A
Above-ground biomass	N/A	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**

The State Statistical Committee of Azerbaijan Republic gives updated information only on the total growing stock of forests. This information is not comparable to the information (Salmanov, S. 2005 and UNECE/FAO 2000, reference year 1988).used in the past FRA assessments.

## 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	UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand (TBFRA 2000)	Areas available for wood supply, Areas not available for wood supply, IUCN protected area categories, soil protection management areas	1988	Secondary data source.
2	UNECE environmental performance review, Azerbaijan, 2004, Environmental Performance Reviews Series No.19. <a href="http://www.countryanalyticwork.net/CAW/Cawdoelib.nsf/0/7E8C14AF9756CDC485256FB00048D69F/\$file/pdf+file+with+maps.pdf">http://www.countryanalyticwork.net/CAW/Cawdoelib.nsf/0/7E8C14AF9756CDC485256FB00048D69F/\$file/pdf+file+with+maps.pdf</a>	Protected areas	2000, 2003	Secondary data source, contains data from Chemonics International/ USAID's Bureau of Europe and NIS, Biodiversity Assessment, 2000. Ministry of Ecology and Natural Resources, 2003.

3	Ministry of Ecology and Natural Resources of Azerbaijan Republic, WWW-pages, <a href="http://eco.gov.az/v2.1/en/forest/">http://eco.gov.az/v2.1/en/forest/</a> , date 18.3.2005.	Soil protection management areas	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 4.2.2 Classification and definitions

National class	Definition
N/A	The original data is assumed to follow the definitions of UNECE/FAO 2000.
N/A	N/A
N/A	N/A
N/A	N/A

#### 4.2.3 Original data

##### ***Forest area available for wood supply.***

UNECE/FAO 2000 reports that for 1988 151 000 ha out of the total area of forest, 934 000 ha, were available for wood supply and 15 000 ha of OWL of total 54 000 ha was available for wood supply. 63 300 ha of forest was not available for wood supply due to conservation on the protection reasons.

### 4.3 Analysis and processing of national data

#### 4.3.1 Adjustment

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#### 4.3.2 Estimation and forecasting

No estimation and forecasting have been done, since there is no reliable basis to do it. The UNECE/FAO (TBFRA 2000) 1988 figures are used for all the reporting years.

#### 4.3.3 Reclassification

There is an overlap between the various functions and the total area is much larger than the total forest area in Question 1. The primary function has been estimated according to priorities presented in the following table.

**Forest Designated functions**

TBFRA 2000 class	FRA Designated function	Priority in calculation	Area (1000 ha)
Forest managed primarily for soil protection	100% Protection of soil and water	2 <sup>nd</sup>	864
IUCN I & II classes	100% Conservation of biodiversity	1 <sup>st</sup>	72
Area available for wood supply	100 % Production	3 <sup>rd</sup>	0
Other	100% No or unknown function	4 <sup>th</sup>	0

**4.4 Data**

Table 4a



Categories		Forest area (000 hectares)				
		1990	2000	2005	2010	2015
	Production forest	N/A	N/A	N/A	N/A	N/A
	Multiple use forest	N/A	N/A	N/A	N/A	N/A

Table 4b

Rank	Name of product	Key species	Commercial value of NWFP removals 2010 (value 1000 local currency)	NWFP category
1 <sup>st</sup>	N/A	N/A	N/A	N/A
2 <sup>nd</sup>	N/A	N/A	N/A	N/A
3 <sup>rd</sup>	N/A	N/A	N/A	N/A
4 <sup>th</sup>	N/A	N/A	N/A	N/A
5 <sup>th</sup>	N/A	N/A	N/A	N/A
6 <sup>th</sup>	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 beewax
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	6.5	3.2
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	12.6	6.2
1999	12.6	6.2
2000	13.5	6.4
2001	13.5	6.4
2002	52.8	26.4
2003	6.5	3.2
2004	6.5	3.2
2005	6.5	3.2
2006	6.5	3.2
2007	6.5	3.2
2008	6.5	3.2
2009	6.5	3.2
2010	6.5	3.2
2011	6.5	3.2

Tiers

Category	Tier for status	Tier for reported trend
Production forest	N/A	N/A
Multiple use forest	N/A	N/A

## 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	N/A	N/A
Multiple use forest	N/A	N/A
Total wood removals	N/A	N/A
Commercial value of NWFP	N/A	N/A

## Other general comments to the table

N/A

## 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	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

### 5.2.2 Classification and definitions

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

### 5.2.3 Original data

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## 5.3 Analysis and processing of national data

### 5.3.1 Adjustment

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### 5.3.2 Estimation and forecasting




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### 5.3.3 Reclassification

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## 5.4 Data

Table 5a

Categories		Forest area (1000 hectares)				
		1990	2000	2005	2010	2015
	Protection of soil and water	N/A	N/A	N/A	N/A	N/A
	... 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

<b>Other</b>
--------------

N/A
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Table 5b

Categories	Forest area (1000 hectares)				
	1990	2000	2005	2010	2015
Ecosystem services, cultural or spiritual values	N/A	N/A	N/A	N/A	N/A
...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	N/A	N/A
Ecosystem services, cultural or spiritual values	N/A	N/A

## Tier criteria

Category	Tier for status	Tier for reported trend
----------	-----------------	-------------------------

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

## 5.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
Protection of soil and water	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**

N/A
-----



## 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	UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand (TBFRA 2000)	Areas available for wood supply, Areas not available for wood supply, IUCN protected area categories, soil protection management areas	1988	Secondary data source.
2	UNECE environmental performance review, Azerbaijan, 2004, Environmental Performance Reviews Series No.19. <a href="http://www.countryanalyticwork.net/CAW/Cawdoclib.nsf/0/7E8C14AF9756CDC485256FB00048D69F/\$file/pdf+file+with+maps.pdf">http://www.countryanalyticwork.net/CAW/Cawdoclib.nsf/0/7E8C14AF9756CDC485256FB00048D69F/\$file/pdf+file+with+maps.pdf</a>	Protected areas	2000, 2003	Secondary data source, contains data from Chemonics International/ USAID's Bureau of Europe and NIS, Biodiversity Assessment, 2000. Ministry of Ecology and Natural Resources, 2003.
3	Ministry of Ecology and Natural Resources of Azerbaijan Republic, WWW-pages, <a href="http://eco.gov.az/v2.1/en/forest/">http://eco.gov.az/v2.1/en/forest/</a> , date 18.3.2005.	Soil protection management areas	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 6.2.2 Classification and definitions

National class	Definition
N/A	The original data is assumed to follow the definitions of UNECE/FAO 2000.
N/A	N/A

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

### 6.2.3 Original data

#### ***Protected areas***

“Protected area categories defined by the Law on Specially Protected Natural Areas and Objects (2000) include those that are international (some natural reserves), national (State reserves and national parks) and local (natural reserves, natural monuments, zoological parks, botanical gardens and dendrological parks, health resorts. Currently, there are 37 protected areas, of which 14 are strict nature reserves, 20 are sanctuaries and 3 are national parks . Strict nature reserves correspond to the first protection category of the World Conservation Union (IUCN). According to the National Report on the Ecological Network (2001), they occupy 192,235 ha (2.2% of the country)... Sanctuaries and other protected categories (including endemic and relict forests) occupy 379,000 ha or 4.3% of Azerbaijan’s territory. They have a weaker conservation status and are managed either by strict nature reserve managers or by the regional authorities. In 2003 the area of strict nature reserves amounted to 206,937 ha, the area of national parks – 84,428 ha, and the area of sanctuaries – 273,860 ha with combined area covering 7% of the country’s territory” (*UNECE environmental performance review, 2004*) .

Unfortunately, the report provides no details regarding the extent of forests and other wooded land within each of the above categories.

UNECE/FAO 2000 reports that for 1988 the IUCN categories I and II area was 72 000 ha and III and IV 864 000 ha for forest and 15 000 ha and 39 000 ha for OWL, respectively.

UNECE environmental performance review, 2011 reports that Azerbaijan has further developed the protected area system and increased the number of areas to 45 (11 state nature reserves, 24 state nature sanctuaries and 8 national parks) covering 10.1 per cent of the territory or 876,236.1 ha.

## **6.3 Analysis and processing of national data**

### 6.3.1 Adjustment

The calibrated forest areas from Question 1 are used.



## 6.3.2 Estimation and forecasting

No estimation and forecasting have been done, since there is no reliable basis to do it

## 6.3.3 Reclassification

## 6.4 Data

Table 6

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

## Tiers

Category	Tier for status	Tier for reported trend
Conservation of biodiversity	N/A	N/A
Forest area within protected areas	N/A	N/A

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

#### 7.2.3 Original data

--

### 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
----------	-----------------	-------------------------

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
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	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

#### 8.2.2 Classification and definitions

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

#### 8.2.3 Original data

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## 8.3 Analysis and processing of national data

### 8.3.1 Adjustment

### 8.3.2 Estimation and forecasting

### 8.3.3 Reclassification

## 8.4 Data

Table 8a

Category		000 ha, number of fires									
		2003		2004		2005		2006		2007	
		000 ha	#	000 ha	#	000 ha	#	000 ha	#	000 ha	#
	Total land area burned	246.82	N/A	277.61	N/A	88.18	N/A	307.85	N/A	129.3	N/A
	... of which forest area burned	0.86	N/A	1.5	N/A	0.54	N/A	1.52	N/A	0.23	N/A
Category		2008		2009		2010		2011		2012	
		000 ha	#	000 ha	#	000 ha	#	000 ha	#	000 ha	#
	Total land area burned	88.43	N/A	65.43	N/A	277.36	N/A	92.06	N/A	63.91	N/A
	... of which forest area burned	0.54	N/A	0.25	N/A	2.32	N/A	0.12	N/A	0.31	N/A

Table 8b

Outbreak category	Description/name	Year(s) of latest outbreak	Area damaged (000 hectares)
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	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>	N/A	N/A

### 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
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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**

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	31.71

Tiers

Category	Tier for reported trend
Reduction in canopy cover	Tier 2

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

--

## 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	UNECE environmental performance reviews, Azerbaijan, Second Review	N/A	2011	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

#### 10.2.2 Classification and definitions

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

#### 10.2.3 Original data

--

### 10.3 Data

Table 10

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

### 10.4 Comments

Variable / category	Comments related to data definitions etc
Policies supporting sustainable forest management	The National Programme for the Restoration and Expansion of Forests has expired and Azerbaijan does not at present have a policy framework in which to operate with goals and objectives for the sustainable management of its forests. Although Azerbaijan is a signatory to the Ministerial Conference for the Protection of Forests in Europe, now ForestEurope, and has agreed on principles on sustainable forest management for the pan-European region, it has not prepared a national forest programme. The countries participating in the pan European forest process have agreed that a national forest programme constitutes a participatory, holistic, inter-sectoral and iterative process of policy planning, implementation, monitoring and evaluation at the national and/or sub-national level necessary for the further improvement of sustainable forest management. UNECE environmental performance reviews, Azerbaijan, Second Review, 2011.
Legislation and regulations supporting sustainable forest management	N/A

Other general comments

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

Documents for this question:

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

### 11.1 Categories and definitions

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

### 11.2 National data

#### 11.2.1 Data sources

	References to sources of information	Years	Additional comments
1	UNECE environmental performance reviews, Azerbaijan, Second Review, 2011.	2011	N/A
2	N/A	N/A	N/A
3	N/A	N/A	N/A
4	N/A	N/A	N/A

Table 11

Is there a national platform that promotes or allows for stakeholder participation in forest policy development?	no
--	----

### 11.3 Comments

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

Other general comments

--

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

Documents for this question:

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

### 12.1 Categories and definitions

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

### 12.2 National data

#### 12.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	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

#### 12.2.2 Classification and definitions

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

#### 12.2.3 Original data

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### 12.3 Analysis and processing of national data



## 12.3.1 Adjustment

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## 12.3.2 Estimation and forecasting



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## 12.3.3 Reclassification

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## 12.4 Data

Table 12

Categories		Forest area 2010 (000 ha)
	Forest area intended to be in permanent forest land use	1008.3
	... of which permanent forest estate	1008.3

## Tiers

Category	Tier for status
Forest area intended to be in permanent forest land use	Tier 1
Permanent forest estate	Tier 1

## 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	N/A
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	UNECE environmental performance reviews, Azerbaijan, Second Review	N/A	2011	Azerbaijan does not have a national forest programme, forest management plans, or a national forest inventory.
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

##### 13.2.2 Classification and definitions

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

#### 13.3 Data

Table 13a

Category	% of total forest area	Most recent year	Check all boxes that apply					
			Continuous	Periodic	Permanent ground plots	Temporary ground plots	Aerial/remote sensing sample based	Aerial/remote sensing full coverage
Forest inventory	N/A	N/A						
Other field assessments	N/A	N/A						
Updates to other sources	N/A	N/A						
Expert estimate	100	2013						

Table 13b

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

Other type of forest reporting
N/A

## 13.4 Comments

Category	Comments
N/A	Azerbaijan does not have a national forest programme, forest management plans, or a national forest inventory.
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	UNECE environmental performance reviews, Azerbaijan, Second Review, 2011.	N/A	2011	Azerbaijan does not have a national forest programme, forest management plans, or a national forest inventory
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	0
... of which for production	N/A
... of which for conservation	N/A

Table 14b

<b>Indicate which (if any) of the following are required in forest management plans in your country</b>
---

1 Soil and water management	no
2 High conservation value forest delineation	no
3 Social considerations community involvement	no

Table 14c

<b>Percent of area under forest management plan that is monitored annually</b>	<b>0</b>
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## Tiers

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

## Tier criteria

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

## 14.4 Comments

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

## Other general comments

--

## 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	no
3. Review of operations	no

Tiers

Category	Tier for status
Type of stakeholder inputs	Tier 1

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

Other general comments

--

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

Documents for this question:

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

### 16.1 Categories and definitions

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

### 16.2 Data

Table 16a













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

Table 16b

Domestic forest management certification		Forest area (000 ha)						
		2000	2001	2002	2003	2004	2005	2006
	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	Tier 3
<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

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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>• <b>Goods</b> : roundwood; sawnwood; biomass; woodbased panels; pulp and paper and non-wood forest products.</li> <li>• <b>Services</b> : 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	UNECE environmental performance reviews, Azerbaijan, Second Review, 2011. <a href="http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/Synopsis/Azerbaijan%20ECE.CEP.158.synopsis%20english.pdf">http://www.unece.org/fileadmin/DAM/env/epr/epr_studies/Synopsis/Azerbaijan%20ECE.CEP.158.synopsis%20english.pdf</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

### 17.3 Data

Table 17

Category	Revenues / expenditures (000 local currency)		
	2000	2005	2010
Forest revenue	N/A	N/A	N/A

Public expenditure on forestry	N/A	30900	N/A
	2000	2005	2010
Name of Local Currency	manat	manat	manat

#### 17.4 Comments

Category	Comments related to data definitions etc
Forest revenue	N/A
Public expenditure on forestry	2005 expenditure is the average annual expenditure (Budget-funded environmental spending by Ministry of Ecology and Natural Resources) between 2003-2007.
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	UNECE/FAO, 2000. Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand (TBFRA 2000)	Ownership (forest, OWL)	1988	Secondary data source.
2	Salmanov, S. 2005. Azerbaijan Forest Resources Assessment for Sustainable Forest Management. UNECE/FAO Workshop on Capacity Building in Sharing Forest and Market Information. 2005. <a href="http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf">http://www.unece.org/timber/docs/other_mtgs/2005krtiny/reports/aze_fra_e.pdf</a>	Forest land, Forest	N/A	Secondary data source.
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	The definitions of public and private ownership according to UNECE/FAO 2000 are the same as those being used by FRA 2005.
N/A	N/A
N/A	N/A
N/A	N/A

## 18.2.3 Original data

<p><b><i>Management rights</i></b></p> <p>“The forests of Azerbaijan are state protected. Forest management is carried out on the principles of the Forest Code and the Law on Environmental Protection. In the republic of Azerbaijan use of the forest reserves is realized on the basis of legislatively approved contracts. There are 3 forms of the rent of forest lands: recreation, short term agricultural use and long term rent with an indispensable condition of planting forest saplings on 20 % of the territory rented. It also includes tending the planted trees until they cover the whole territory with wood.” (Salmanov, 2005)</p>
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## 18.3 Analysis and processing of national data

### 18.3.1 Adjustment









### 18.3.2 Estimation and forecasting

### 18.3.3 Reclassification

The ownership percentage for the year 1988 in UNECE/FAO 2000 is applied to all the reporting years.

## 18.4 Data

Table 18a

Categories		Forest area (1000 hectares)			
		1990	2000	2005	2010
	Public ownership	851.8	871.8	877.2	1008.3
	... of which owned by the state at national scale	N/A	N/A	N/A	N/A
	... of which owned by the state at the sub-national government scale	N/A	N/A	N/A	N/A
	Private ownership	0	0	0	0
	... of which owned by individuals	0	0	0	0
	... of which owned by private business entities and institutions	0	0	0	0
	... of which owned by local, tribal and indigenous communities	0	0	0	0
	Unknown ownership	0	0	0	0
TOTAL		851.80	871.80	877.20	1008.30

### Tiers

Category	Tier for status	Tier for reported trend
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Public ownership	Tier 1	Tier 1
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	N/A	N/A	N/A	N/A
Individuals	N/A	N/A	N/A	N/A
Private companies	N/A	N/A	N/A	N/A
Communities	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A
TOTAL	.00	.00	.00	.00

Category	Tier for reported trend	Tier for status
Public Administration	N/A	N/A
Individuals	N/A	N/A
Private companies	N/A	N/A
Communities	N/A	N/A
Other	N/A	N/A

## 18.5 Comments

Category	Comments related to data definitions etc	Comments on the reported trend
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Public ownership	N/A	N/A
Private ownership	N/A	N/A
Unknown ownership	N/A	N/A
Management rights	No data available for reporting on this table.	N/A

**Other general comments to the table**

As the changes in the economies of countries in transition are going on rapidly, the information in this table, which is based on 1988 data, may not accurately reflect the current situation with regard to the ownership of Forest in Azerbaijan.



## 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	NOTE to 19.2: Data are taken from from Lebedys (2008). The year 2000 and 2005 figures in Lebedys (2008) are estimated from roundwood production data, by taking employment per cubic metre of roundwood production in the years where data is available and using the production data in the missing years to estimate the likely level of employment.	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

#### 19.2.2 Classification and definitions



National class	Definition
N/A	N/A
N/A	N/A
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	5	4	2	N/A
	... of which female	N/A	N/A	N/A	N/A

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

### 20.3 Comments

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

Other general comments

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

Documents for this question:

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

### 21.1 Categories and definitions

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

### 21.2 National data

#### 21.2.1 Data sources

	References to sources of information	Variables	Years	Additional comments
1	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

### 21.3 Data

Table 21a

Category	Forest area (000 ha)	
	2020	2030
Government target/aspiration for forest area	N/A	N/A

Table 21b

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

### 21.4 Comments

Category	Comments
Government target/aspiration for forest area	N/A

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Forests earmarked for conversion	N/A
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Other general comments

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