



Food and Agriculture  
Organization of the  
United Nations

# Global Forest Resources Assessment 2020

Report

**Russian Federation**

Rome, 2020



FAO has been monitoring the world's forests at 5 to 10 year intervals since 1946. The Global Forest Resources Assessments (FRA) are now produced every five years in an attempt to provide a consistent approach to describing the world's forests and how they are changing. The FRA is a country-driven process and the assessments are based on reports prepared by officially nominated National Correspondents. If a report is not available, the FRA Secretariat prepares a desk study using earlier reports, existing information and/or remote sensing based analysis.

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# Introduction

## Report preparation and contact persons

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### Introductory text

#### ВВЕДЕНИЕ

В рамках международной программы ФАО ООН, с 1948 года прошло 11 глобальных оценок лесных ресурсов (ГОЛР). Методы проведения ГОЛР постоянно совершенствуется, поскольку в мире увеличивается спрос на данные по лесным ресурсам. Начиная с 1980 г. в ГОЛР были включены данные дистанционного зондирования.

Долгосрочной задачей ГОЛР является обеспечение мирового сообщества качественными данными о лесных ресурсах для поддержки устойчивого лесопользования, увеличения инвестиций в лесное хозяйство и совершенствования лесной политики.

ГОЛР 2020, учитывая традиции прошлых ГОЛР, включает следующие ключевые элементы:

- понимание и решение потребностей пользователей/национальных корреспондентов и экспертов;
- сокращению бремени отчетности;
- повышение качества/ надежности данных.

Для выполнения упомянутых принципов в ГОЛР 2020 введены новые элементы, которые способствуют упорядочению данных, чтобы процесс сбора данных стал лучше, быстрее, дешевле. Новыми элементами ГОЛР 2020 являются:

- полностью автоматизированная ONLINE платформа для ввода данных),
- калькулятор биомассы,
- моделирование прогноза площади территорий,
- онлайн консультации для национальных корреспондентов,
- заполнение Совместного вопросника по лесным ресурсам (приняли участие 104 страны, на территории которых расположено 88% мировой площади лесов),
- развитие потенциала – организация региональных семинаров, национальной сети поддержки ГОЛР.

В настоящем проектном докладе по ГОЛР 2020 были использованы, в основном, данные Государственного лесного реестра (ГЛР) ФГУП «Рослесинфорг», а также статистические материалы Росстата и Земельного фонда РФ.

По данным ГЛР-2015, общая площадь земель Российской Федерации, занятая лесами, составила **1 183,4 млн га, в том числе площадь земель лесного фонда – 1 146,1 млн га, земли лесов особо охраняемых территорий и объектов – 26,4 млн га, земли лесов населенных пунктов – 1,4 млн га и земли лесов иных категорий – 9,5 млн га.**

К землям лесного фонда относятся лесные земли (земли, покрытые лесной растительностью и не покрытые лесной растительностью, но предназначенные для ее восстановления, – вырубки, гари, редины, прогалины и другие) и предназначенные для ведения лесного хозяйства нелесные земли (просеки, дороги, болота и другие). **Лесные земли занимают 75,4% общей площади лесов, из них покрытые лесной растительностью – 67,3%, не покрытые лесной растительностью – 8,1%. Нелесные земли составляют 24,6%.**

Использование, охрана, защита, воспроизводство лесов осуществляются в соответствии с целевым назначением земель, на которых эти леса расположены. Все леса на землях лесного фонда по целевому назначению подразделяются на защитные **(24%), эксплуатационные (52%) и резервные (24%).**

Общий запас древесины в лесах, расположенных на землях лесного фонда, и лесах, расположенных на землях других категорий, составил 83,1 млрд м<sup>3</sup>, в том числе на землях лесного фонда – 79,9 млрд м<sup>3</sup>. Средний запас древесины на 1 га – 104 м<sup>3</sup>, в эксплуатационных лесах – 120 м<sup>3</sup>, в спелых и перестойных насаждениях (без кустарников) – 135 м<sup>3</sup>, в лесах, возможных для использования в целях заготовки древесины, – 165 м<sup>3</sup>. Ежегодный средний прирост запаса древесины в лесах России составляет 1,32 м<sup>3</sup> на 1 га земель, покрытых лесной растительностью.

За период с 2012 по 2018 год площадь лесных земель России увеличилась на 20 млн га за счет сельскохозяйственных угодий, заросших лесом. Поэтому данные по 2010 году FRA были пересчитаны заново, в соответствии с реальными исходными данными ГЛР-2010. Данные по 2015 году FRA были получены по данным ГЛР-2013 без экстраполяции.

В ходе работы над Докладом возникли некоторые трудности:

1. Статистические данные по объему вывозки и рыночной стоимости недревесных лесных продуктов отсутствуют. Экспертные оценки значительно расходятся. Привести достоверную информацию невозможно (табл. 7с).
2. Данные о получении образования в сфере лесного хозяйства отсутствуют (табл 7b)

1 Forest extent, characteristics and changes

1a Extent of forest and other wooded land

National data

Data sources

1990	References	<div>Ссылки на источники информации</div> <div>Год (ы)</div> <div>Дополнительные комментарии</div> <div>Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian). 1990</div> <div>Forest lands 1990 total coverage</div> <div>The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian). 1990</div> <div>Other lands with tree cover 1990 2000 2005 partial coverage</div> <div>The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012 1990</div> <div>AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage</div>
	Methods used	National Forest Inventory, Sample-based remote sensing assessment, Registers/questionnaires
	Additional comments	No comments

2000	References	<div>Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian). 2000</div> <div>Forest lands 2000 total coverage</div> <div>Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian). 2000</div> <div>Forest lands 2005 total coverage</div> <div>The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian). 2000</div> <div>Other lands with tree cover 1990 2000 2005 partial coverage</div> <div>The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012 2000</div> <div>AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage</div>
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2005	References	Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian). Forest lands 2005 total coverage
		The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian). Other lands with tree cover 1990 2000 2005 partial coverage
	Methods used	National Forest Inventory, Sample-based remote sensing assessment, Registers/questionnaires
	Additional comments	No comments

2010	References	State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010 2010 Forest lands 2010 total coveragefor FRA-2015
		The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012 2010 AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
	Methods used	National Forest Inventory, Sample-based remote sensing assessment, Registers/questionnaires
	Additional comments	No comments

2015	References	State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2013 2013 Forest lands 2015 total coverage
		THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012) 2012 Forest lands 2015 modeling of total coverage
	Methods used	Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a> 2011 Total area, Other lands with tree cover 2010, 2015
	Additional comments	No comments

2017	References	
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		<p>State Forest Register (SFR) of the Russian Federation// Roslesinform, 2016 2016 Forest lands 2016 total coverage</p> <p>Roslesinform Forest Resources Database as of 01.01.2017 2017 Forest lands 2017 total coverage for FRA-2020</p> <p>The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://goo-gl.ru/JqA">https://goo-gl.ru/JqA</a> 2018 Other lands with tree cover 2018 partial coverage</p>
	<b>Methods used</b>	National Forest Inventory, Full-cover forest/vegetation maps, Registers/questionnaires
	<b>Additional comments</b>	No comments

### Classifications and definitions

1990	<b>National class</b>	<b>Definition</b>
	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.
	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	A species, subspecies or lower taxon occurring outside 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).

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	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	



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2010	<b>National class</b>	<b>Definition</b>
	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.
	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
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	Introduced planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. A species, subspecies or lower taxon occurring outside its natural range (past or present) and dispersal potential

2017	National class	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.

	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. A species, subspecies or lower taxon occurring outside its natural range (past or present) and dispersal potential

## Original data and reclassification

1990	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Primary forest	241 725.70	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	554 573.00	100.00 %	0.00 %	0.00 %
	Planted forest	12 651.20	100.00 %	0.00 %	0.00 %
	Bushes (shrubs)	74 989.80	0.00 %	100.00 %	0.00 %
	Urban forests	153.00	0.00 %	0.00 %	100.00 %
	Other wooded land	0.00	0.00 %	0.00 %	100.00 %
	Introduced planted forest	0.00	100.00 %	0.00 %	0.00 %
	<b>Total</b>	<b>884 092.70</b>	<b>808 949.90</b>	<b>74 989.80</b>	<b>153.00</b>

2000	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Primary forest	258 130.80	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	535 777.30	100.00 %	0.00 %	0.00 %
	Planted forest	15 360.40	100.00 %	0.00 %	0.00 %

	Bushes (shrubs)	71 606.60	0.00 %	100.00 %	0.00 %
	Urban forests	1 099.10	0.00 %	0.00 %	100.00 %
	Other wooded land	5 823.80	0.00 %	0.00 %	100.00 %
	Introduced planted forest	0.00	100.00 %	0.00 %	0.00 %
	Total	887 798.00	809 268.50	71 606.60	6 922.90

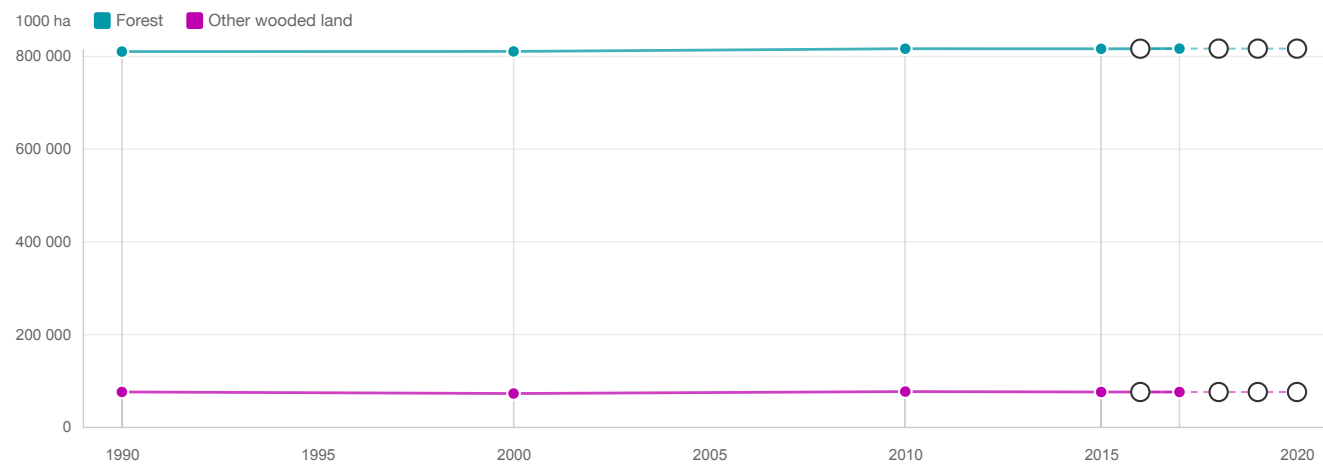
2005	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Primary forest	255 469.80	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	536 357.70	100.00 %	0.00 %	0.00 %
	Planted forest	16 897.20	100.00 %	0.00 %	0.00 %
	Bushes (shrubs)	73 169.10	0.00 %	100.00 %	0.00 %
	Urban forests	1 016.10	0.00 %	0.00 %	100.00 %
	Other wooded land	5 714.60	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	100.00 %	0.00 %	0.00 %
	Total	888 690.20	808 790.40	73 169.10	6 730.70

2010	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Primary forest	273 343.00	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	522 179.70	100.00 %	0.00 %	0.00 %
	Planted forest	19 547.20	100.00 %	0.00 %	0.00 %
	Bushes (shrubs)	75 812.10	0.00 %	100.00 %	0.00 %
	Urban forests	1 007.30	0.00 %	0.00 %	100.00 %
	Other wooded land	20 363.20	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	100.00 %	0.00 %	0.00 %

	<b>Total</b>	<b>912 318.20</b>	<b>815 135.60</b>	<b>75 812.10</b>	<b>21 370.50</b>
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2015	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Primary forest	272 717.60	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	522 371.90	100.00 %	0.00 %	0.00 %
	Planted forest	19 775.26	100.00 %	0.00 %	0.00 %
	Bushes (shrubs)	74 924.60	0.00 %	100.00 %	0.00 %
	Urban forests	1 069.10	0.00 %	0.00 %	100.00 %
	Other wooded land	20 328.00	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	100.00 %	0.00 %	0.00 %
	<b>Total</b>	<b>911 252.16</b>	<b>814 930.46</b>	<b>74 924.60</b>	<b>21 397.10</b>

2017	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Primary forest	260 433.10	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	535 998.40	100.00 %	0.00 %	0.00 %
	Planted forest	18 814.40	100.00 %	0.00 %	0.00 %
	Bushes (shrubs)	74 885.30	0.00 %	100.00 %	0.00 %
	Urban forests	1 235.40	0.00 %	0.00 %	100.00 %
	Other wooded land	19 225.70	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	100.00 %	0.00 %	0.00 %
	<b>Total</b>	<b>910 658.00</b>	<b>815 311.60</b>	<b>74 885.30</b>	<b>20 461.10</b>



FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest (a)	808 949.90	809 268.50	815 135.60	814 930.46	815 121.03	815 311.60	815 311.60	815 311.60	815 311.60
Other wooded land (a)	74 989.80	71 606.60	75 812.10	74 924.60	74 904.95	74 885.30	74 885.30	74 885.30	74 885.30
Other land (c-a-b)	753 747.30	756 811.90	746 739.30	747 831.94	747 661.02	747 490.10	747 490.10	747 490.10	747 490.10
Total land area (c)	1 637 687.00	1 637 687.00	1 637 687.00	1 637 687.00	1 637 687.00	1 637 687.00	1 637 687.00	1 637 687.00	1 637 687.00

The FAOSTAT land area figure for the year 2015 is used for all reference years

Climatic domain	% of forest area 2015	Override value
Boreal	86.00	88.00
Temperate	14.00	12.00
Sub-tropical	0.00	0.00
Tropical	0.00	0.00

Comments

Значения климатических зон, взяты из гос. доклада за 2012 год.



1b Forest characteristics

National data

Data sources

1990	References	<div>Ссылки на источники информации</div> <div>Год (ы)</div> <div>Дополнительные комментарии</div> <div>Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian). 1990 Forest lands 1990 total coverage</div> <div>The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian). 1990 Other lands with tree cover 1990 2000 2005 partial coverage</div> <div>The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012 1990 AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage</div>
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<b>2010</b>	<b>References</b>	State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010 2010 Forest lands 2010 total coveragefor FRA-2015  The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012 2010 AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
	<b>Methods used</b>	National Forest Inventory, Sample-based remote sensing assessment, Registers/questionnaires
	<b>Additional comments</b>	No comments

<b>2015</b>	<b>References</b>	State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2013 2013 Forest lands 2015 total coverage  THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012) 2012 Forest lands 2015 modeling of total coverage  Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a> 2011 Total area, Other lands with tree cover 2010, 2015
	<b>Methods used</b>	National Forest Inventory, Full-cover forest/vegetation maps, Registers/questionnaires
	<b>Additional comments</b>	No comments

<b>2017</b>	<b>References</b>	
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		<p>State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016 2016 Forest lands 2016 total coverage</p> <p>Roslesinforg Forest Resources Database as of 01.01.2017 2017 Forest lands 2017 total coverage for FRA-2020</p> <p>The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://goo-gl.ru/JqA">https://goo-gl.ru/JqA</a> 2018 Other lands with tree cover 2018 partial coverage</p>
	<b>Methods used</b>	National Forest Inventory, Full-cover forest/vegetation maps, Registers/questionnaires
	<b>Additional comments</b>	No comments

### Classifications and definitions

1990	<b>National class</b>	<b>Definition</b>
	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.
	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	A species, subspecies or lower taxon occurring outside 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).

2000	<b>National class</b>	<b>Definition</b>
	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.
	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. A species, subspecies or lower taxon occurring outside its natural range (past or present) and dispersal potential

2005	National class	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.
	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands

	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. A species, subspecies or lower taxon occurring outside its natural range (past or present) and dispersal potential

2010	<b>National class</b>	<b>Definition</b>
	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.
	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. A species, subspecies or lower taxon occurring outside its natural range (past or present) and dispersal potential

2015	<b>National class</b>	<b>Definition</b>

	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.
	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. A species, subspecies or lower taxon occurring outside its natural range (past or present) and dispersal potential

2017	National class	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.
	Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
	Bushes (shrubs)	Bush tangle usually having height up to 6 m and less.

	Urban forests	Urban forest parks include stocked forest lands and unstocked forest lands
	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 include land that is predominantly under agricultural or urban land use.
	Introduced planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. A species, subspecies or lower taxon occurring outside its natural range (past or present) and dispersal potential

Original data and reclassification

1990	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Primary forest	241 725.70	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	554 573.00	100.00 %	0.00 %	0.00 %
	Planted forest	12 651.20	0.00 %	0.00 %	100.00 %
	Introduced planted forest	0.00	0.00 %	0.00 %	100.00 %
	Total	808 949.90	796 298.70	0.00	12 651.20

2000	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Primary forest	258 130.80	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	535 777.30	100.00 %	0.00 %	0.00 %
	Planted forest	15 360.40	0.00 %	0.00 %	100.00 %
	Introduced planted forest	0.00	0.00 %	0.00 %	100.00 %
	Total	809 268.50	793 908.10	0.00	15 360.40

2005	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Primary forest	255 469.80	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	536 357.70	100.00 %	0.00 %	0.00 %
	Planted forest	16 897.20	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	0.00 %	0.00 %	100.00 %
	Total	808 790.40	791 827.50	0.00	16 962.90

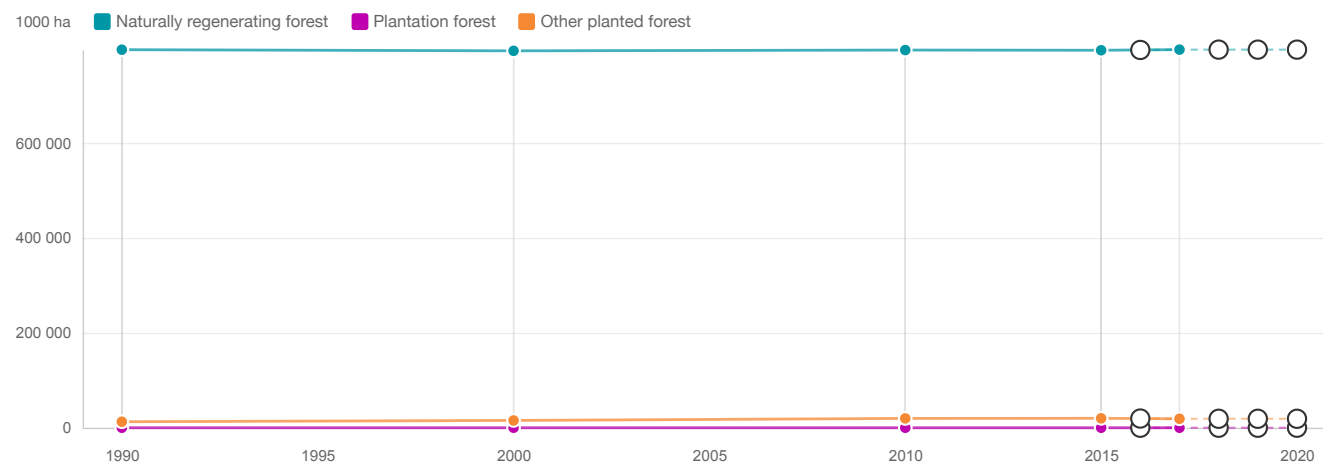
2010	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Primary forest	273 343.00	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	522 179.70	100.00 %	0.00 %	0.00 %
	Planted forest	19 547.20	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	0.00 %	0.00 %	100.00 %
	Total	815 135.60	795 522.70	0.00	19 612.90

2015	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Primary forest	272 717.60	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	522 371.90	100.00 %	0.00 %	0.00 %
	Planted forest	19 775.26	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	0.00 %	0.00 %	100.00 %
	Total	814 930.46	795 089.50	0.00	19 840.96

2017	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest



	Primary forest	260 433.10	100.00 %	0.00 %	0.00 %
	Other naturally regenerated forest	535 998.40	100.00 %	0.00 %	0.00 %
	Planted forest	18 814.40	0.00 %	0.00 %	100.00 %
	Introduced planted forest	65.70	0.00 %	0.00 %	100.00 %
	Total	815 311.60	796 431.50	0.00	18 880.10



FRA categories	Forest area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest (a)	796 298.70	793 908.10	795 522.70	795 089.50	795 760.50	796 431.50	796 431.50	796 431.50	796 431.50
Planted forest (b)	12 651.20	15 360.40	19 612.90	19 840.96	19 360.53	18 880.10	18 880.10	18 880.10	18 880.10
Plantation forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
...of which introduced species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other planted forest	12 651.20	15 360.40	19 612.90	19 840.96	19 360.53	18 880.10	18 880.10	18 880.10	18 880.10
Total (a+b)	808 949.90	809 268.50	815 135.60	814 930.46	815 121.03	815 311.60	815 311.60	815 311.60	815 311.60
Total forest area	808 949.90	809 268.50	815 135.60	814 930.46	815 121.03	815 311.60	815 311.60	815 311.60	815 311.60

Comments

No comments

# 1c Primary forest and special forest categories

## National Data

### Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2013	2013	Forest lands 2015 total coverage
THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012)	2012	Forest lands 2015 modeling of total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://gao-gl.ru/JgA">https://gao-gl.ru/JgA</a>	2018	Other lands with tree cover 2018 partial coverage

### National classification and definitions

Category	Definition
Bamboos	N/A
Mangroves	N/A
Temporarily unstocked and/or recently regenerated	
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.
Rubber wood	N/A

### Original data

Roslesinforg Forest Resources Database as of 01.01.2017

## Analysis and processing of national data

### Estimation and forecasting

Calculated data

### Reclassification into FRA 2020 categories

Calculated data

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Primary forest	305 144.20	288 500.00	271 855.80	263 533.70	255 211.50
Temporarily unstocked and/or recently regenerated	39 700.00	32 800.00	30 200.00	32 400.00	32 306.70
Bamboos	0.00	0.00	0.00	0.00	0.00
Mangroves	0.00	0.00	0.00	0.00	0.00
Rubber wood	0.00	0.00	0.00	0.00	0.00

Comments

The estimates for the primary forest area were derived using the estimated area of intact forest landscapes for year 2000 as a baseline and IFL area change within the period 2000-2013 as the change rate. The IFL methodology has been reported in Kobayakov et al. 2015. Loss of Intact Forest Landscapes in Russia and Effective Forest Management in Secondary Forests as Its Alternative for Biodiversity Conservation and Sustainable Rural Development". XIV World Forestry Congress, Durban, South Africa, 7-11 September 2015.

# 1d Annual forest expansion, deforestation and net change

## National Data

### Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforг Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforг, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforг, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
State Forest Register (SFR) of the Russian Federation// Roslesinforг, 2013	2013	Forest lands 2015 total coverage
THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012)	2012	Forest lands 2015 modeling of total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforг, 2016	2016	Forest lands 2016 total coverage
Roslesinforг Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://gco-gl.ru/JgA">https://gco-gl.ru/JgA</a>	2018	Other lands with tree cover 2018 partial coverage

### National classification and definitions

Category	Comments related to data definitions etc	Comments on the reported trends
Forest expansion	Natural expansion of forest: Almost all agricultural forests were transferred to the Forest Fund The statistical account is not conducted	Afforestation: Area reduction is connected with reduction of financing of these works.
Deforestation	No data	N/A

### Original data

Roslesinforг Forest Resources Database as of 01.01.2016 Forest lands 2016 total coverage for FRA-2020

## Analysis and processing of national data

### Estimation and forecasting

Calculated data

### Reclassification into FRA 2020 categories

Calculated data

FRA categories	Area (1000 ha/year)			
	1990-2000	2000-2010	2010-2015	2015-2020
Forest expansion (a)	31.86	586.71	0.00	76.23
...of which afforestation	0.00	0.00	0.00	0.00
...of which natural expansion	31.86	586.71	0.00	76.23
Deforestation (b)	0.00	0.00	41.03	0.00
Forest area net change (a-b)	31.86	586.71	-41.03	76.23

Comments

No comments

# 1e Annual reforestation

## National Data

### Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2013	2013	Forest lands 2015 total coverage
THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012)	2012	Forest lands 2015 modeling of total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://gco-gl.ru/JgA">https://gco-gl.ru/JgA</a>	2018	Other lands with tree cover 2018 partial coverage

### National classification and definitions

Category	Comments related to data definitions etc	Comments on the reported trends
Reforestation	Artificial reforestation: In the Russian Federation, reforestation includes assistance to natural renewal on the cut down and burnt forest lands	Artificial reforestation: Area reduction is connected with reduction of financing of these works.

### Original data

Roslesinforg Forest Resources Database as of 01.01.2016 Forest lands 2016 total coverage for FRA-2020

## Analysis and processing of national data

### Estimation and forecasting

Calculated data

### Reclassification into FRA 2020 categories

Calculated data



FRA categories	Area (1000 ha/year)			
	1990-2000	2000-2010	2010-2015	2015-2020
Reforestation	1 178.70	859.80	848.10	944.80

Comments

No comments

1f Other land with tree cover

National Data

Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2013	2013	Forest lands 2015 total coverage
THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012)	2012	Forest lands 2015 modeling of total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://ggo-gl.ru/JgA">https://ggo-gl.ru/JgA</a>	2018	Other lands with tree cover 2018 partial coverage

National classification and definitions

Category	Definition
Palms	N/A
Tree orchards	N/A
Agroforestry	N/A
Trees in urban settings	Urban forest parks include stocked forest lands and unstocked forest lands
Other	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 include land that is predominantly under agricultural.

Original data

Roslesinforg Forest Resources Database as of 01.01.2017

Analysis and processing of national data

Estimation and forecasting

Calculated data

Reclassification into FRA 2020 categories

Calculated data

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Palms (a)	0.00	0.00	0.00	0.00	0.00
Tree orchards (b)	0.00	0.00	0.00	0.00	0.00
Agroforestry (c)	0.00	0.00	0.00	0.00	0.00
Trees in urban settings (d)	153.00	1 099.10	1 007.30	1 069.10	1 235.40
Other (specify in comments) (e)	4 973.00	5 823.80	20 363.20	20 328.00	19 225.70
<b>Total (a+b+c+d+e)</b>	<b>5 126.00</b>	<b>6 922.90</b>	<b>21 370.50</b>	<b>21 397.10</b>	<b>20 461.10</b>
Other land area	<b>753 747.30</b>	<b>756 811.90</b>	<b>746 739.30</b>	<b>747 831.94</b>	<b>747 490.10</b>

Comments

В категорию другое, отнесены Прочие лесопокрытые земли, в тч. земли сельскохозяйственного назначения

## 2 Forest growing stock, biomass and carbon

### 2a Growing stock

#### National Data

Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2013	2013	Forest lands 2015 total coverage
THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012)	2012	Forest lands 2015 modeling of total coverage
Ground Fund of the Russian Federation in 2011(2012) http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://gao-gl.ru/JqA">https://gao-gl.ru/JqA</a>	2018	Other lands with tree cover 2018 partial coverage

National classification 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

Original data

Roslesinforg Forest Resources Database as of 01.01.2017

### Analysis and processing of national data

Estimation and forecasting

Calculated data

Reclassification into FRA 2020 categories

Calculated data

FRA categories	Growing stock m³/ha (over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	98.94	99.19	100.01	99.99	99.52	99.44	99.44	99.44	99.44
Planted forest	98.94	99.19	100.01	99.99	96.97	99.44	99.44	99.44	99.44
...of which plantation forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
...of which other planted forest	98.94	99.19	100.01	99.99	96.97	99.44	99.44	99.44	99.44
Forest	98.94	99.19	100.01	99.99	99.46	99.44	99.44	99.44	99.44
Other wooded land	20.90	20.90	20.90	20.87	20.88	20.88	20.88	20.88	20.88

FRA categories	Total growing stock (million m³ over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	78 787.90	78 746.81	79 561.34	79 504.09	79 193.50	79 193.50	79 193.50	79 193.50	79 193.50
Planted forest	1 251.74	1 523.58	1 961.51	1 983.97	1 877.36	1 877.36	1 877.36	1 877.36	1 877.36
...of which plantation forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
...of which other planted forest	1 251.74	1 523.58	1 961.51	1 983.97	1 877.36	1 877.36	1 877.36	1 877.36	1 877.36
Forest	80 039.64	80 270.39	81 522.85	81 488.06	81 071.31	81 071.31	81 071.31	81 071.31	81 071.31
Other wooded land	1 567.29	1 496.58	1 584.47	1 563.89	1 563.89	1 563.89	1 563.89	1 563.89	1 563.89

Comments

No comments

2b Growing stock composition

National Data

Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2013	2013	Forest lands 2015 total coverage
THE RUSSIAN FEDERATIONFOREST SECTOR OUTLOOK STUDY TO 2030 (FAO, 2012)	2012	Forest lands 2015 modeling of total coverage
Ground Fund of the Russian Federation in 2011(2012) http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://gao-gl.ru/JgA">https://gao-gl.ru/JgA</a>	2018	Other lands with tree cover 2018 partial coverage

National classification 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

Original data

Roslesinforg Forest Resources Database as of 01.01.2017

Analysis and processing of national data

Estimation and forecasting

Calculated data

Reclassification into FRA 2020 categories

Calculated data

FRA categories	Scientific name	Common name	Growing stock in forest (million m³ over bark)				
			1990	2000	2010	2015	2020
Native tree species							
#1 Ranked in terms of volume	Larix	Лиственница - 4 species	27 245.49	25 338.11	23 832.50	23 672.43	23 672.43
#2 Ranked in terms of volume	Pinus	Сосна– 6 species	15 663.76	16 289.58	16 381.60	16 250.10	16 250.10
#3 Ranked in terms of volume	Betula	Береза -10 species	11 653.77	11 022.96	13 737.90	14 099.53	14 099.53
#4 Ranked in terms of volume	Picea	Ель – 6 species	9 388.64	10 915.47	10 811.40	10 616.50	10 616.50
#5 Ranked in terms of volume	Pinus sibirica	Сосна сибирская -1sp.	8 212.07	8 457.73	7 789.50	7 734.06	7 734.06
#6 Ranked in terms of volume	Populus tremula	Осина - 1 species	2 905.44	3 237.76	3 859.50	3 936.74	3 936.74
#7 Ranked in terms of volume	Abies	Пихта - 4 species	2 865.42	2 682.57	2 504.70	2 486.96	2 486.96
#8 Ranked in terms of volume	Quercus	Дуб – 5 species	856.42	858.75	886.20	905.15	905.15
#9 Ranked in terms of volume	Tilia	Липа - 6 species	480.24	570.99	610.20	633.21	633.21
#10 Ranked in terms of volume	Fagus	Бук - 2 species	192.10	201.26	182.20	183.94	183.94
Remaining native tree species			576.29	695.21	927.20	969.44	969.44
Total volume of native tree species			80 039.64	80 270.39	81 522.90	81 488.06	81 488.06



FRA categories	Scientific name	Common name	Growing stock in forest (million m³ over bark)				
			1990	2000	2010	2015	2020
Native tree species							
Introduced tree species							
#1 Ranked in terms of volume	0	0	0.00	0.00	0.00	0.00	0.00
#2 Ranked in terms of volume	0	0	0.00	0.00	0.00	0.00	0.00
#3 Ranked in terms of volume	0	0	0.00	0.00	0.00	0.00	0.00
#4 Ranked in terms of volume	0	0	0.00	0.00	0.00	0.00	0.00
#5 Ranked in terms of volume	0	0	0.00	0.00	0.00	0.00	0.00
Remaining introduced tree species			0.00	0.00	0.00	0.00	0.00
Total volume of introduced tree species			0.00	0.00	0.00	0.00	0.00
Total growing stock			80 039.64	80 270.39	81 522.90	81 488.06	81 488.06

Comments

No comments

## 2c Biomass stock

### National Data

#### Data sources + type of data source eg NFI, etc

References to sources of information	Variables	Years	Additional comments
Zagreev V.V. et al. All-union specifications for taxation of forests / ?. Kolos, 1992 (in Russian).	Complementary information	1990-2005	Conversion factors
Forest resources USSR (under the count on 01.01.1998). The statistical collection / Goscomles USSR, M., 1990. (in Russian).	Growing Stock	1988	total dataAll Forest lands
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999.(in Russian).	Growing Stock	2003	total dataAll Forest lands
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003.(in Russian).	Growing Stock	2008	total dataAll Forest lands
Roslesinforg Forest Resources Database as of 01.01.2008( <a href="http://www.roslesinforg.ru/">http://www.roslesinforg.ru/</a> )	Growing Stock	2010	total coveragefor FRA-2015
State Forest Register (SFR) database as of 01.01.2010	Growing Stock		
Bazilevich N.I. A biological productivity of Boreal Eurasia ecosystems - M.: Nauka, 1993. (in Russian)	Biomass stock Carbon in dead wood and litter	1990 - 2010	Conversion factors The method of calculations is used
Moiseev B., Filipchuk A. Method of Carbon Balance Assessment for the Russian Forests// World Climate Change Conference, Moscow, 2003 (in English).	Biomass stock Carbon of biomass	1990 - 2010	Conversion factors
Moiseev B.N. & Filipchuk A.N.. Carbon balance for Russian forests // Use and protection of natural resources of Russia, ? 4-5, 2003 (in Russian).	Carbon of biomass	1990 - 2010	N/A

Boris N. Moiseev and Andrei N. Filipchuk Carbon Balance in the Russian Forests// <a href="http://www.fao.org/docrep/ARTICLE/WFC/XII/0151-B1.HTM">http://www.fao.org/docrep/ARTICLE/WFC/XII/0151-B1.HTM</a>	Carbon of biomass	1990 - 2010	N/A
Moiseev B.N. Calculations of the carbon deposition in Russian forests according to the State forest register data// Forestry N1, 2011	Carbon of biomass	1990 - 2010	N/A
Senkin N.I. A database on stores of a humus in soils of Russian regions ( <a href="http://www.biodat.ru/db/dv/gumus.htm">http://www.biodat.ru/db/dv/gumus.htm</a> )	Soil carbon	1990 - 2010	Recalculation is made for the forest lands only and for soil depth = 0.3 m .
Roslesinforg Forest Resources Database as of 01.01.2017	Growing Stock	2017	total dataAll Forest lands

### National classification 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.

### Original data

Roslesinforg Forest Resources Database as of 01.01.2017

**Analysis and processing of national data**

**Estimation and forecasting**

-

**Reclassification into FRA 2020 categories**

Not required

FRA categories	Forest biomass (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	67.97	70.16	73.89	75.82	76.13	76.44	76.73	77.03	77.33
Below-ground biomass	20.27	20.77	21.69	22.21	22.29	22.37	22.45	22.53	22.61
Dead wood	16.58	16.66	17.23	17.50	17.53	17.57	17.61	17.64	17.68

Comments

The calculations in table 2c "Biomass stock" and 2d "Carbon stock" are provided by the YU. A. IZRAEL Institute of Global Climate and Ecology for managed forests.

## 2d Carbon stock

### National Data

#### Data sources + type of data source eg NFI, etc

References to sources of information	Variables	Years	Additional comments
Zagreev V.V. et al. All-union specifications for taxation of forests / ?., Kolos, 1992 (in Russian).	Complementary information	1990-2005	Conversion factors
Forest resources USSR (under the count on 01.01.1998). The statistical collection / Goscomles USSR, M., 1990. (in Russian).	Growing Stock	1988	total dataAll Forest lands
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999.(in Russian).	Growing Stock	2003	total dataAll Forest lands
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003.(in Russian).	Growing Stock	2008	total dataAll Forest lands
Roslesinforg Forest Resources Database as of 01.01.2008( <a href="http://www.roslesinforg.ru/">http://www.roslesinforg.ru/</a> )	Growing Stock	2010	total coveragefor FRA-2015
State Forest Register (SFR) database as of 01.01.2010	Growing Stock		
Bazilevich N.I. A biological productivity of Boreal Eurasia ecosystems - M.: Nauka, 1993. (in Russian)	Biomass stock Carbon in dead wood and litter	1990 - 2010	Conversion factors The method of calculations is used
Moiseev B., Filipchuk A. Method of Carbon Balance Assessment for the Russian Forests// World Climate Change Conference, Moscow, 2003 (in English).	Biomass stock Carbon of biomass	1990 - 2010	Conversion factors
Moiseev B.N. & Filipchuk A.N.. Carbon balance for Russian forests // Use and protection of natural resources of Russia, ? 4-5, 2003 (in Russian).	Carbon of biomass	1990 - 2010	N/A

Boris N. Moiseev and Andrei N. Filipchuk Carbon Balance in the Russian Forests// <a href="http://www.fao.org/docrep/ARTICLE/WFC/XII/0151-B1.HTM">http://www.fao.org/docrep/ARTICLE/WFC/XII/0151-B1.HTM</a>	Carbon of biomass	1990 - 2010	N/A
Moiseev B.N. Calculations of the carbon deposition in Russian forests according to the State forest register data// Forestry N1, 2011	Carbon of biomass	1990 - 2010	N/A
Senkin N.I. A database on stores of a humus in soils of Russian regions ( <a href="http://www.biodat.ru/db/dv/gumus.htm">http://www.biodat.ru/db/dv/gumus.htm</a> )	Soil carbon	1990 - 2010	Recalculation is made for the forest lands only and for soil depth = 0.3 m .
Roslesinforg Forest Resources Database as of 01.01.2017	Growing Stock	2017	total dataAll Forest lands

### National classification 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 100 cm.

### Original data

Roslesinforg Forest Resources Database as of 01.01.2017

Analysis and processing of national data

Estimation and forecasting

Calculated data

Reclassification into FRA 2020 categories

Not required



FRA categories	Forest carbon (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Carbon in above-ground biomass	33.99	35.08	36.95	37.91	38.07	38.22	38.37	38.52	38.67
Carbon in below-ground biomass	10.13	10.38	10.85	11.10	11.15	11.19	11.22	11.26	11.30
Carbon in dead wood	8.29	8.33	8.61	8.75	8.77	8.79	8.80	8.82	8.84
Carbon in litter	7.78	7.80	7.88	7.90	7.91	7.91	7.91	7.92	7.92
Soil carbon	97.40	97.40	97.40	97.50	97.50	97.50	97.50	97.50	97.50

Soil depth (cm) used for soil carbon estimates	30.00
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Comments

The calculations in table 2c "Biomass stock" and 2d "Carbon stock" are provided by the YU. A. IZRAEL Institute of Global Climate and Ecology for managed forests.

## 3 Forest designation and management

### 3a Designated management objective

#### National Data

##### Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://ggo-gl.ru/JgA">https://ggo-gl.ru/JgA</a>	2018	Other lands with tree cover 2018 partial coverage

##### National classification and definitions

Category	Definition
Production	Operational forests having mainly wood production importance.
Protection of soil and water	Protective forests carrying out soil and water protective of function.
Conservation of biodiversity	Protected forests of strict reservations (nature reserve), national and nature parks, nature monuments and state reserve.
Social Services	Protective forests of green zones of settlements and preservation of resorts.
Multiple use	Other forest lands of the Protective forests in were wood harvested is resolved.
Other	Reserve forests - the remote forests which will not be developed 20 and more years
No or unknown function	

##### Original data

Roslesinforg Forest Resources Database as of 01.01.2017

#### Analysis and processing of national data

**Estimation and forecasting**

Calculated data

**Reclassification into FRA 2020 categories**

Calculated data

Primary designated management objective

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production (a)	446 678.60	411 437.10	421 491.00	415 073.70	455 291.58
Protection of soil and water (b)	58 695.40	70 387.80	85 110.70	86 353.50	149 364.00
Conservation of biodiversity (c)	11 814.50	16 190.20	17 572.20	18 000.00	18 582.22
Social Services (d)	17 376.20	11 333.10	12 368.00	12 316.66	13 605.23
Multiple use (e)	108.20	154.50	1 703.80	1 482.40	3 563.26
Other (specify in comments) (f)	274 277.00	299 765.80	276 889.90	281 704.20	174 905.31
None/unknown (g)	0.00	0.00	0.00	0.00	0.00
Total forest area	808 949.90	809 268.50	815 135.60	814 930.46	815 311.60

Total area with designated management objective

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production	446 678.60	411 437.10	421 491.00	415 073.70	455 291.58
Protection of soil and water	58 695.40	70 387.80	85 110.70	86 353.50	149 364.00
Conservation of biodiversity	11 814.50	16 190.20	17 572.20	18 000.00	18 582.22
Social Services	17 376.20	11 333.10	12 368.00	12 316.66	13 605.23
Other (specify in comments)	274 277.00	299 765.80	276 889.90	281 704.20	174 905.31

Comments

Использованы данные: Форма 1 ГЛР, Форма 2 ГЛР, Форма 22 Росреестра

Комментарии: в строке f указана площадь резервных лесов РФ

3b Forest area within protected areas and forest area with long-term management plans

National Data

Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://goo-gl.ru/JqA">https://goo-gl.ru/JqA</a>	2018	Other lands with tree cover 2018 partial coverage

National classification and definitions

Category	Definition
Forest area within protected areas	Forest area within formally established protected areas independently of the purpose for which the protected areas were established.
Forest area with long-term forest management plan	Total forest lands of the RF.All forests of the country are under management plans, but forest inventory is carried out by different methods and with different accuracy. Periodic forest inventories = 10-20 yr.

Original data

Roslesinforg Forest Resources Database as of 01.01.2017

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest area within protected areas	11 814.50	16 190.20	17 572.20	18 000.00	18 582.22	18 582.22	18 582.22	18 582.22	18 582.22
Forest area with long-term forest management plan	808 949.90	809 268.50	815 135.60	814 930.46	815 121.03	815 245.90	815 245.90	815 245.90	815 245.90
...of which in protected areas	11 814.50	16 190.20	17 572.20	18 000.00	18 582.22	18 582.22	18 582.22	18 582.22	18 582.22

## Comments

## 4 Forest ownership and management rights

### 4a Forest ownership

#### National Data

Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://goo-gl.ru/JqA">https://goo-gl.ru/JqA</a>	2018	Other lands with tree cover 2018 partial coverage

National classification and definitions

-

Original data

Roslesinforg Forest Resources Database as of 01.01.2017

### Analysis and processing of national data

Estimation and forecasting

Category	Definition
Private ownership	N/A
Public ownership	Forest owned by the State or administrative units of the public administration or by institutions or corporations owned by the public administration.
Unknown/other	N/A

Reclassification into FRA 2020 categories

Not required

FRA categories	Forest area (1000 ha)			
	1990	2000	2010	2015
Private ownership (a)	0.00	0.00	0.00	0.00
...of which owned by individuals	0.00	0.00	0.00	0.00
...of which owned by private business entities and institutions	0.00	0.00	0.00	0.00
...of which owned by local, tribal and indigenous communities	0.00	0.00	0.00	0.00
Public ownership (b)	808 949.90	809 268.50	815 135.60	814 930.46
Unknown/other (specify in comments) (c)	0.00	0.00	0.00	0.00
Total forest area	808 949.90	809 268.50	815 135.60	814 930.46

## Comments



4b Holder of management rights of public forests

National Data

Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://goo-gl.ru/JqA">https://goo-gl.ru/JqA</a>	2018	Other lands with tree cover 2018 partial coverage

National classification and definitions

Category	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	Forest management rights and responsibilities are transferred from the Public Administration to individuals or households through long-term leases or management agreements
Private business entities and institutions	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
Local, tribal and indigenous 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.
Unknown/other	Forests for which the transfer of management rights does not belong to any of the categories mentioned above.

Original data

Roslesinforg Forest Resources Database as of 01.01.2017

Analysis and processing of national data

Estimation and forecasting

**Reclassification into FRA 2020 categories**

Not required

FRA categories	Forest area (1000 ha)			
	1990	2000	2010	2015
Public Administration (a)	808 949.90	721 556.50	615 317.00	571 325.06
Individuals (b)	0.00	0.00	0.00	0.00
Private business entities and institutions (c)	0.00	87 712.00	193 352.20	243 605.40
Local, tribal and indigenous communities (d)	0.00	0.00	0.00	0.00
Unknown/other (specify in comments) (e)	0.00	0.00	6 466.40	0.00
Total public ownership	808 949.90	809 268.50	815 135.60	814 930.46

## Comments

## 5 Forest disturbances

### 5a Disturbances

#### National Data

Data sources + type of data source eg NFI, etc

References to sources of information	Variables	Years	Additional comments
According to institute Roslesozashchita	Insects Diseases Severe weather events	2010-2017	Forest monitoring (parthly)
The basic parameters of forestry activity for 1988, 1992-2012 years// Roslesinforg, 2013	Forest lands burned by fire	1990 2000 2005 2010	total coverage
Rosleshoz data on forest lands burned by fire	Data from remote sensing	2003 - 2017	Forest fire remote sensing monitoring
Rosstat data on forest lands burned by fire	Official statistical data	2003 - 2017	Forest fire monitoring

National classification and definitions

Category	Definition
Insects	A detectable reduction in forest health caused by a sudden increase in numbers of harmful insects.
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.
Other	the areas of plantings exposed to anthropogenic factors and damage by wild animals and dead plantings from fires are given.

Original data

Roslesinforg Forest Resources Database as of 01.01.2017

### Analysis and processing of national data

Estimation and forecasting

Calculated data

Reclassification into FRA 2020 categories

Not required

FRA categories	Area (1000 ha)																	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Insects (a)	20.30	15.50	21.10	52.00	204.80	30.10	26.60	32.70	29.40	6.80	9.30	29.40	32.10	50.90	41.80	32.70	53.50	41.40
Diseases (b)	5.50	7.20	8.00	7.50	16.40	18.50	31.30	24.70	19.30	23.20	26.80	32.60	30.30	26.30	38.20	35.00	38.80	25.70
Severe weather events (c)	33.60	11.20	16.40	16.30	40.60	456.00	55.30	56.80	36.60	64.20	120.10	103.20	68.40	45.10	47.80	46.40	35.60	29.30
Other (specify in comments) (d)	640.50	293.20	289.10	475.30	141.40	456.30	164.20	178.10	175.10	340.60	600.40	242.70	234.90	499.30	385.00	214.00	142.20	98.90
Total (a+b+c+d)	699.90	327.10	334.60	551.10	403.20	960.90	277.40	292.30	260.40	434.80	756.60	407.90	365.70	621.60	512.80	328.10	270.10	195.30
Total forest area	809 268.50	—	—	—	—	808 790.40	—	—	—	—	815 135.60	—	—	—	—	814 930.46	815 121.03	815 311.60

Comments

Указаны значения площади погибших насаждений

По строке d приведены площади насаждений, подвергшихся воздействию антропогенных факторов и повреждению дикими животными и погибшие насаждения от пожаров.

5b Area affected by fire

National Data

Data sources + type of data source eg NFI, etc

References to sources of information	Variables	Years	Additional comments
According to institute Roslesozashchita	Insects Diseases Severe weather events	2010-2017	Forest monitoring (parthly)
The basic parameters of forestry activity for 1988, 1992-2012 years// Roslesinforg, 2013	Forest lands burned by fire	1990 2000 2005 2010	total coverage
Rosleshoz data on forest lands burned by fire	Data from remote sensing	2003 - 2017	Forest fire remote sensing monitoring
Rosstat data on forest lands burned by fire	Official statistical data	2003 - 2017	Forest fire monitoring

National classification and definitions

Category	Definition
Total land area affected by fire	Under the definition of "Total land area affected by fires" in the Russian Federation, is adopted the definition of "Total area covered by fires"
...of which on forest	in the Russian Federation, the definition of "Total forest area covered by fires"

Original data

Информация о площади, пройденной пожарами, представлена на основании данных статистической отчетности (с 2000 года по 2013 год – по Форме № 5-ЛХ «Сведения о лесных пожарах», утвержденной Постановлением Госкомстата России от 03.08.1998 № 81; с 2013 года по 2017 год – по Формам 6-ОИП, утвержденной приказом Рослесхоза от 27.06.2011 № 245 и 7-ОИП, утвержденной приказом Минприроды России от 28.12.2015 № 565)

Analysis and processing of national data

Estimation and forecasting

Calculated data

Reclassification into FRA 2020 categories

Not required

FRA categories	Area (1000 ha)																	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total land area affected by fire	1 967.70	1 411.30	2 129.60	3 340.60	680.30	1 145.90	2 450.20	1 620.30	2 534.80	2 592.60	2 453.40	1 673.80	2 372.30	1 400.10	3 682.70	2 969.80	2 873.90	4 551.70
...of which on forest	1 328.60	896.80	1 369.50	2 122.80	543.30	845.30	1 493.50	1 036.10	2 069.80	2 111.60	2 027.80	1 408.40	2 101.20	1 157.10	3 190.70	2 748.90	2 508.30	3 282.10

Comments

ФБУ «Авиалесоохрана» указана площадь, пройденная огнем. Информация о площади, пройденной пожарами, представлена на основании данных статистической отчетности (с 2000 года по 2013 год – по Форме № 5-ЛХ «Сведения о лесных пожарах», утвержденной Постановлением Госкомстата России от 03.08.1998 № 81; с 2013 года по 2017 год – по Формам 6-ОИП, утвержденной приказом Рослесхоза от 27.06.2011 № 245 и 7-ОИП, утвержденной приказом Минприроды России от 28.12.2015 № 565). Под определением «Общая земельная площадь, пораженная пожарами» в Российской Федерации, принимается определение «Общая площадь, пройденная пожарами»

5c Degraded forest

Does your country monitor area of degraded forest		No
If "yes"	What is the national definition of "Degraded forest"?	нет определения "Деградировавшие леса"
	Describe the monitoring process and results	Смотрите комментарии.

Comments

1. Мониторинг пожарной опасности в лесах и лесных пожаров

Является мерой пожарной безопасности в лесах, в том числе расположенных на землях обороны и безопасности, землях особо охраняемых природных территорий федерального значения или в границах лесничеств и лесопарков, указанных в части 2 статьи 83 Лесного кодекса Российской Федерации Об утверждении Порядка осуществления мониторинга пожарной опасности в лесах и лесных пожаров (с изменениями на 1 июня 2016 года) и организуется уполномоченным федеральным органом исполнительной власти, органами государственной власти субъектов Российской Федерации в пределах их полномочий, определенных в соответствии со статьями 81-83 Лесного кодекса Российской Федерации

Включает в себя:

- 1) наблюдение за пожарной опасностью в лесах и лесными пожарами;
- 2) организацию системы обнаружения и учета лесных пожаров, системы наблюдения за их развитием с использованием наземных, авиационных или космических средств;
- 3) организацию патрулирования лесов;

Общая площадь мониторинга пожарной опасности в лесах по результатам анализа выполнения бюджетных проектировок в 2015 году (форма 1-субвенции) составила 840,6 млн га

1. Лесопатологический мониторинг

Государственный лесопатологический мониторинг представляет собой систему наблюдений (с использованием наземных и (или) дистанционных методов) за санитарным и лесопатологическим состоянием лесов и за происходящими в них процессами и явлениями, а также анализа, оценки и прогноза изменения санитарного и лесопатологического состояния лесов.

Государственный лесопатологический мониторинг является частью государственного экологического мониторинга (государственного мониторинга окружающей среды).

Целями государственного лесопатологического мониторинга являются:

- своевременное обнаружение, анализ, оценка и прогноз изменения санитарного и лесопатологического состояния лесов для осуществления управления в области защиты лесов и обеспечения санитарной безопасности в лесах;
- оценка достоверности сведений о санитарном и лесопатологическом состоянии лесов и обоснованности мероприятий, предусмотренных актами лесопатологических обследований, утвержденными уполномоченными органами государственной власти субъектов Российской Федерации, в части сравнения данных, указанных в актах лесопатологического обследования, с материалами государственного лесопатологического мониторинга;
- определение санитарного и лесопатологического состояния лесов, подвергшихся радиационному загрязнению, расположенных на землях лесного фонда.

Наземными методами осуществления государственного лесопатологического мониторинга являются:

- регулярные наземные наблюдения за санитарным и лесопатологическим состоянием лесов;
- выборочные наблюдения за популяциями вредных организмов;
- выборочные наземные наблюдения за санитарным и лесопатологическим состоянием лесов;
- инвентаризация очагов вредных организмов;
- экспедиционные обследования;
- оценка санитарного и лесопатологического состояния лесов.



Дистанционным методом осуществления государственного лесопатологического мониторинга являются дистанционные наблюдения за санитарным и лесопатологическим состоянием лесов.

Государственный лесопатологический мониторинг способом регулярных наземных наблюдений за санитарным и лесопатологическим состоянием лесов проводится на площади около 100 млн га ежегодно.

## 6 Forest policy and legislation

### 6a Policies, Legislation and national platform for stakeholder participation in forest policy

#### National Data

##### Data sources + type of data source eg NFI, etc

1. Распоряжение Правительства РФ от 26 сентября 2013 г. № 1724-р «Об утверждении Основ государственной политики в области использования, охраны, защиты и воспроизводства лесов в Российской Федерации на период до 2030 года»
2. Государственная программа «Развитие лесного хозяйства» на 2013–2020 годы Постановление Правительства РФ от 15 апреля 2014 года №318
3. Указ Президента Российской Федерации от 1.04.96 N 440 "О концепции перехода Российской Федерации к устойчивому развитию"
4. Постановление Правительства Российской Федерации от 8.05.96 N 559 "О разработке проекта государственной стратегии устойчивого развития Российской Федерации"
5. Лесной кодекс Российской Федерации (с изменениями на 3 августа 2018 года)
6. Общественный совет при Рослесхозе (основание организации: Федеральный закон от 21 июля 2014 г. N 212-ФЗ "Об основах общественного контроля в Российской Федерации", Федеральный закон от 4 апреля 2005 г. N 32-ФЗ "Об Общественной палате Российской Федерации", постановление Правительства Российской Федерации от 2 августа 2005 г. N 481 "О Порядке образования общественных советов при федеральных министерствах, руководство которыми осуществляет Правительство Российской Федерации, федеральных службах и федеральных агентствах, подведомственных этим федеральным министерствам, а также федеральных службах и федеральных агентствах, руководство которыми осуществляет Правительство Российской Федерации")
7. Единая Государственная Автоматизированная Информационная Система учёта древесины и сделок с ней: Федеральный закон от 28 декабря 2013года №415- ФЗ « О внесении изменений в Лесной кодекс Российской Федерации Кодекс Федерации об административных правонарушениях»

##### National classification and definitions

-

##### Original data

Policies supporting SFM - <http://government.ru/>

Legislations and regulations supporting SFM - <http://www.consultant.ru/>

Traceability system(s) for wood products - <https://lesega.ru/>

Indicate the existence of	Boolean (Yes/No)	
	National	Sub-national
Policies supporting SFM	Yes	Yes
Legislations and regulations supporting SFM	Yes	Yes
Platform that promotes or allows for stakeholder participation in forest policy development	Yes	Yes
Traceability system(s) for wood products	Yes	Yes

Comments

## 6b Area of permanent forest estate

### National Data

Data sources + type of data source eg NFI, etc

Ссылки на источники информации	Год (ы)	Дополнительные комментарии
Forest resources USSR (under the count on 01.01.1988). The statistical collection / Goscomles USSR, M., 1990 (in Russian).	1990	Forest lands 1990 total coverage
Forest resources of Russia (as of 01.01.1998). Handbook / VNIIClesresurs, M., 1999 (in Russian).	2000	Forest lands 2000 total coverage
Forest resources of Russia (as of 01.01.2003).Handbook / VNIILM, M., 2003 (in Russian).	2000	Forest lands 2005 total coverage
The state (national) report on a status and use of lands of Russian Federation in 2003/ Roszemkadastr, M., 2002 (in Russian).	2000	Other lands with tree cover 1990 2000 2005 partial coverage
Roslesinforg Forest Resources Database as of 01.01.2008	2005	Forest lands 2010 total coverage for FRA-2010
State Forest Register (SFR) database as of 01.01.2010// Roslesinforg, 2010	2010	Forest lands 2010 total coveragefor FRA-2015
The basic parameters of forestry activity for 1988, 1992-2011 years// Roslesinforg, 2012	2010	AfforestationReforestationPlanted areas 1990,2000,2005,2010 total coverage
Ground Fund of the Russian Federation in 2011(2012) <a href="http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents">http://rosreestr.ru/wps/portal/cc_ib_texts_of_documents</a>	2011	Total area, Other lands with tree cover 2010, 2015
State Forest Register (SFR) of the Russian Federation// Roslesinforg, 2016	2016	Forest lands 2016 total coverage
Roslesinforg Forest Resources Database as of 01.01.2017	2017	Forest lands 2017 total coverage for FRA-2020
The state (national) report on a status and use of lands of Russian Federation in 2018 / Rosreestr, M., 2018 (in Russian). <a href="https://goo-gl.ru/JqA">https://goo-gl.ru/JqA</a>	2018	Other lands with tree cover 2018 partial coverage

### National classification and definitions

Category	Definition
Area of permanent forest estate	The forest lands include stocked forest lands and unstocked forest lands. This term completely corresponds to definitions “Forest + Other wooded land” in the FAO terms

### Original data

Roslesinforg Forest Resources Database as of 01.01.2017

FRA 2020 categories	Forest area (1000 ha)					
	Applicable?	1990	2000	2010	2015	2020
Area of permanent forest estate	Yes	808 949.90	809 268.50	815 135.60	814 930.46	815 245.90

Comments

No coments

## 7 Employment, education and NWFP

### 7a Employment in forestry and logging

#### National Data

**Data sources + type of data source eg NFI, etc**

Roslesinforg Forest Resources Database as of 01.01.2017

**National classification and definitions**

Category	Definition
Employment in forestry and logging	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).

**Original data**

Roslesinforg Forest Resources Database as of 01.01.2017

FRA 2020 categories	Full-time equivalents (1000 FTE)											
	1990			2000			2010			2015		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employment in forestry and logging				195.98			68.81			76.27		
...of which silviculture and other forestry activities												
...of which logging												
...of which gathering of non wood forest products												
...of which support services to forestry												

Comments

## 7b Graduation of students in forest-related education

### National Data

**Data sources + type of data source eg NFI, etc**

Ежегодный доклад о состоянии и использовании лесов Российской Федерации за 2012 г.

**National classification and definitions**

Not required

**Original data**

Ежегодный доклад о состоянии и использовании лесов Российской Федерации за 2012 г.



FRA 2020 categories	Number of graduated students											
	1990			2000			2010			2015		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Doctoral degree												
Master's degree												
Bachelor's degree												
Technician certificate / diploma												
Total							35 000.00					

Comments

## 7c Non wood forest products removals and value 2015

### National Data

**Data sources + type of data source eg NFI, etc**

No data

**National classification and definitions**

No data

**Original data**

No data

	Name of NWFP product	Key species	Quantity	Unit	Value (1000 local currency)	NWFP category
#1						
#2						
#3						
#4						
#5						
#6						
#7						
#8						
#9						
#10						
All other plant products						
All other animal products						
Total					-	

Name of currency	RUB
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Comments

No data

8 Sustainable Development Goal 15

8a Sustainable Development Goal 15

SDG Indicator 15.1.1 Forest area as proportion of total land area 2015

Indicator	Percent							
	2000	2010	2015	2016	2017	2018	2019	2020
Forest area as proportion of total land area 2015	49.42	49.77	49.76	49.77	49.78	49.78	49.78	49.78

Name of agency responsible	Рослесхоз
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SDG Indicator 15.2.1 Progress towards sustainable forest management

Sub-Indicator 1	Percent						
	2000-2010	2010-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Forest area annual net change rate	0.07	-0.01	0.02	0.02	0.00	0.00	0.00

Name of agency responsible	Росстат
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Sub-Indicator 2	Forest biomass (tonnes/ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass stock in forest	70.16	73.89	75.82	76.13	76.44	76.73	77.03	77.33

Name of agency responsible	Росстат
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Sub-Indicator 3	Percent (2015 forest area baseline)							
	2000	2010	2015	2016	2017	2018	2019	2020
Proportion of forest area located within legally established protected areas	1.99	2.16	2.21	2.28	2.28	2.28	2.28	2.28

Name of agency responsible	Росстат
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Sub-Indicator 4	Percent (2015 forest area baseline)							
	2000	2010	2015	2016	2017	2018	2019	2020
Proportion of forest area under long-term forest management plan	99.31	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Name of agency responsible	Росстат
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Sub-Indicator 5	Forest area (1000 ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Forest area under independently verified forest management certification schemes	49.40	26 703.25	42 747.91	43 910.98	47 800.72	48 846.02	—	—