



Food and Agriculture
Organization of the
United Nations

Global Forest Resources Assessment 2020

Report

Serbia

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

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Introductory text

Place an introductory text on the content of this report

1 Forest extent, characteristics and changes

1a Extent of forest and other wooded land

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Foresty Domains), Statistical Office data, and NFI data.

National classification and definitions

National class	Definition
Forest	A forest is every area over 5 are covered with forest trees in the form of stands having a protective function but is used for production of forest assortments or has a special purpose. Tree line paths, parks in inhabited places, forest tree nurseries, and groups of forest trees on an area under 5 are are not considered a forest.
High forest	High forests are those originated mainly from seed.
Coppice	Coppices are forests, which originated mainly from shoots from stumps.
Shrubs	Shrubs are devastated coppices of small growth and stunted trees mostly used for grazing and browsing of livestock.
Bushes	Bushes (shrubberies) are devastated coppices where bushes prevail.
Maquis	Specific degradation forms in Mediterranean areas. Maquis are evergreen coppices originated by repression of English oak in the Mediterranean climatic zone of our country.
Other forest land (OFL)	Land which is predominantly used for forestry purposes, but without trees on it, and available for afforestation.
Afforestation	Establishment of forest through planting and/or deliberate seeding on land that, until then, was not classified as forest.
Reforestation	Re-establishment of forest through planting and/or deliberate seeding on land classified as forest.
Natural expansion of forest	Expansion of forests through natural succession on land that, until then, was under another land use (e.g. forest succession on land previously used for agriculture).

Original data

Categories/Kategorije	Area/ Povrsina (ha)									
	1990	2000	2005	2010	2015	2016	2017	2018	2019	2020
Forest/šuma (a)	2 313,00	2 460,00	2 476,00	2 713,00	2 719 526,91	2 720 183,04	2 721 858,37	2 722 002,56	2 722 218,84	2 722 651,41
Other wooded land/ostalo šumsko zemljište (b)	287,00	521,00	521,00	410,00	508 230,00	508 230,00	508 230,00	508 230,00	508 230,00	508 230,00
Other land/ostalo zemljište (c-a-b)	6 146,00	5 765,00	5 749,00	5 623,00	5 518 253,09	5 517 686,96	5 516 011,63	5 515 867,44	5 515 651,16	5 515 218,59
...of which with tree cover/ od cega pod drvcem	272,00	257,00	256,00	75,00	155 327,67	150 873,00	147 866,00	144 923,00	142 039,00	139 213,00
TOTAL LAND AREA/UKUPNA POVRŠINA ©	8 746,00	8 746,00	8 746,00	8 746,00	8 746 010,00	8 746 100,00	8 746 100,00	8 746 100,00	8 746 100,00	8 746 100,00

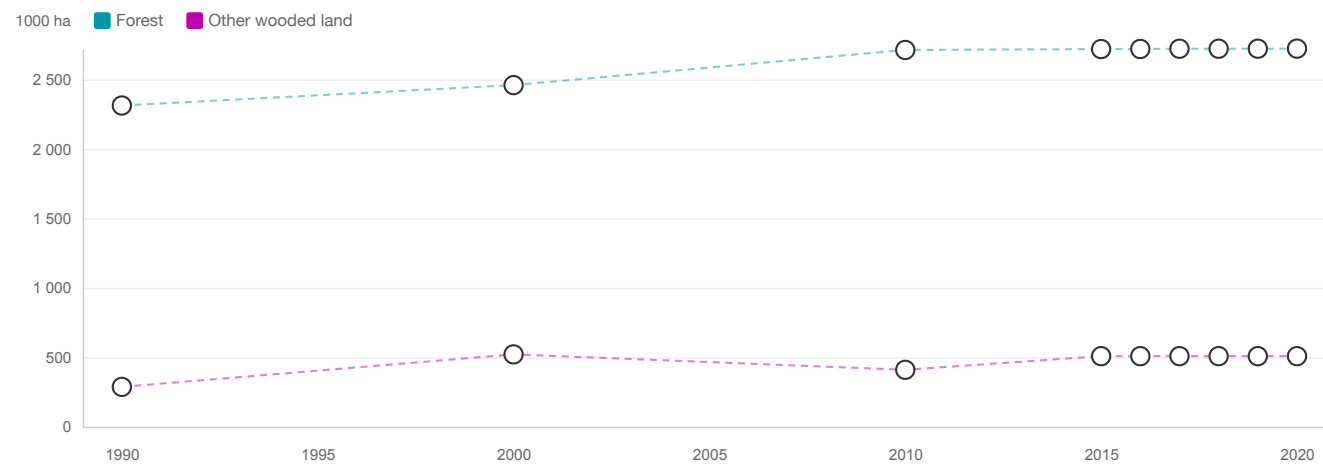
Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest (a)	2 313.00	2 460.00	2 713.00	2 719.53	2 720.18	2 721.86	2 722.00	2 722.22	2 722.65
Other wooded land (a)	287.00	521.00	410.00	508.23	508.23	508.23	508.23	508.23	508.23
Other land (c-a-b)	6 146.00	5 765.00	5 623.00	5 518.24	5 517.59	5 515.91	5 515.77	5 515.55	5 515.12
Total land area (c)	8 746.00	8 746.00	8 746.00	8 746.00	8 746.00	8 746.00	8 746.00	8 746.00	8 746.00

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

Climatic domain	% of forest area 2015	Override value
Boreal	0.00	
Temperate	100.00	
Sub-tropical	0.00	
Tropical	0.00	

Comments

OWL values from 1990, and 2000 were done for Yugoslavia, and mainly estimated. Value for Serbia was recalculated. More precise data received after NFI 2008. Also, differences about OWL definition caused sort of misunderstanding in showing the data for year 2000, while in data for year 2010, missing data from Kosovo.

1b Forest characteristics

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry domains), and NFI data.

National classification and definitions

Naturally regenerating forests	Forest of naturally regenerated native species where there are clearly visible indications of human activities, as well as forests established through planting, seeding or assisted natural regeneration.
Plantations	Forest of native species and in some cases introduced species, established through planting or seeding mainly for production of wood or non wood goods, as well as protecting functions mainly for soil protection.

Original data

Categories/Kategorije	Forest area (hectares)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest/ Prirodno obnovljene sume (a)	2 273	2 420	2 532	2504	2 443 044,63	2 570 405,44	2 582 486,35	2 594 624,03	2 606 818,76
Planted forest/ Vestacki podignute sume (b)	39	39	180	215	277 138,41	151 452,93	139 516,21	127 594,81	115 832,64
Plantation forest/ Plantažne šume			21 170,00	23 715,00	21 054,60	33 534,00	33 805,63	34 079,45	34 355,49
...of which introduced species/ od čega sa alohtonim vrstama	0	0	0	0	0,00	0,00	0,00	0,00	0,00
Other planted forest/ Ostale vešt. šume			159	191	256 083,81	117 918,93	105 710,58	93 515,36	81 477,15
Total/ Ukupno (a+b)	2 312	2 459	2 712	2 719	2 720 183,04	2 721 858,37	2 722 002,56	2 722 218,84	2 722 651,41
Total forest area/ Ukupna površina šuma	2 313	2 460	2 713	2 720	2 720 183,04	2 721 858,37	2 722 002,56	2 722 218,84	2 722 651,41

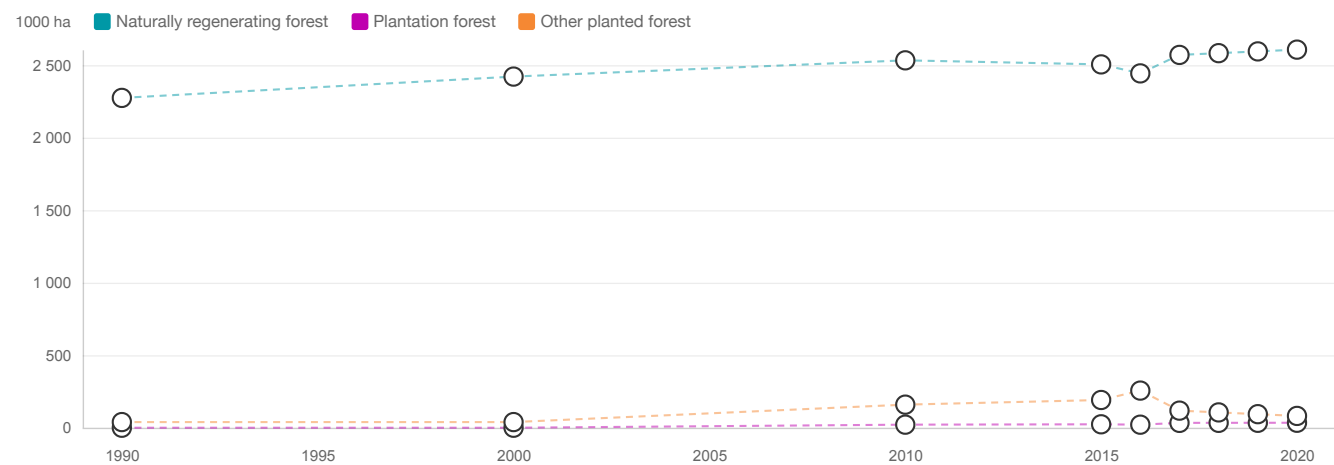
Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Forest area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest (a)	2 274.00	2 421.00	2 533.00	2 505.00	2 443.04	2 570.41	2 582.49	2 594.63	2 606.82
Planted forest (b)	39.00	39.00	180.40	215.00	277.14	151.45	139.51	127.59	115.83
Plantation forest	0.00	0.00	21.17	23.71	21.05	33.53	33.81	34.08	34.35
...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	39.00	39.00	159.23	191.29	256.09	117.92	105.70	93.51	81.48
Total (a+b)	2 313.00	2 460.00	2 713.40	2 720.00	2 720.18	2 721.86	2 722.00	2 722.22	2 722.65
Total forest area	2 313.00	2 460.00	2 713.00	2 719.53	2 720.18	2 721.86	2 722.00	2 722.22	2 722.65

Comments

1c Primary forest and special forest categories

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), Statistical Office data, and NFI data.

National classification and definitions

Primary forests	Forest of native species, where there are no clearly visible indications of human activities and the ecological processes are not significantly disturbed.
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Original data

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Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Primary forest	1.00	1.00	1.00	1.00	1.00
Temporarily unstocked and/or recently regenerated					
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

1d Annual forest expansion, deforestation and net change

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), Statistical Office data, and NFI data.

National classification and definitions

Afforestation	Establishment of forest through planting and/or deliberate seeding on land that, until then, was not classified as forest.
Reforestation	Re-establishment of forest through planting and/or deliberate seeding on land classified as forest.
Natural expansion of forest	Expansion of forests through natural succession on land that, until then, was under another land use (e.g. forest succession on land previously used for agriculture).

Original data

Categories/Kategorije	Area/ Površina (ha/y/god)			
	1990-2000	2001-2010	2011-2015	2016-2020
Forest expansion/ širenje šuma (a)	14700	25300	1400	600,00
...of which afforestation/od čega pošumljavanjem	1,675	2500	400	372,00
...of which natural expansion/od čega prir. eksp.	145	22800	1000	228,00
Deforestation/obešumljavanje (b)	0	0	0	4,00
Forest area net change (a-b)	14700	25300	1400	596

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Area (1000 ha/year)			
	1990-2000	2000-2010	2010-2015	2015-2020
Forest expansion (a)	14.70	25.30	1.40	0.66
...of which afforestation	1.67	2.50	0.40	0.37
...of which natural expansion	0.14	22.80	1.00	0.23
Deforestation (b)	0.00	0.00	0.09	0.04
Forest area net change (a-b)	14.70	25.30	1.31	0.62

Comments

1e Annual reforestation

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry domains), and NFI data.

National classification and definitions

Reforestation	Re-establishment of forest through planting and/or deliberate seeding on land classified as forest.
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Original data

Categories/Kategorije	Forest area/ Površina šuma (ha)			
	1990-2000	2001-2010	2011-2015	2016-2020
Reforestation	1,67	20	32,49	21,46

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Area (1000 ha/year)			
	1990-2000	2000-2010	2010-2015	2015-2020
Reforestation	0.17	2.00	6.50	4.29

Comments

1f Other land with tree cover

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), Statistical Office data, and NFI data.

National classification and definitions

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Original data

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Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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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)	150.20	130.11	147.99	147.17	147.18
Agroforestry (c)					
Trees in urban settings (d)	10.11	10.11	10.11	10.11	10.11
Other (specify in comments) (e)					
Total (a+b+c+d+e)	160.31	140.22	158.10	157.28	157.29
Other land area	6 146.00	5 765.00	5 623.00	5 518.24	5 515.12

Comments

2 Forest growing stock, biomass and carbon

2a Growing stock

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), Statistical Office data, and NFI data.

National classification and definitions

National class	Definition
Growing stock	Volume over bark of all living trees more than 11 cm in diameter at breast height (or above buttress if these are higher). Includes the stem from ground level or stump height up to a top diameter of 7 cm, and may also include branches to a minimum diameter of 7 cm.
Growing stock of commercial species	The part of the growing stock of species that are considered as commercial or potentially commercial under current market conditions, and with a diameter at breast height of 11 cm or more.
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 2mm 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	FRA 2010 definition used.
Carbon in below-ground biomass	FRA 2010 definition used.
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.
Carbon in litter	Carbon in all non-living biomass with a diameter less than the minimum diameter of 10 cm, lying dead in various states of decomposition above the mineral or organic soil. This includes the litter, fomic and humic layers.
Soil carbon	Organic carbon in mineral and organic soils in soil profile to a parent rock (substratum).

Original data

Category/Kategorija	Growing stock m³/ha (over bark)/ Drvna zapremina m³/ha (sa korom)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest/ Prirodno obnovljene šume	102,50	102,50	157,50	158,94	162,91	155,08	154,43	153,79	153,15
Planted forest/ Veštački podignute šume	50,00	50,00	131,86	94,47	74,40	138,61	152,10	168,09	187,11
...of which plantation forest/ plantaže			285,34	236,84	266,76	164,73	162,50	160,29	158,10
...of which other planted forest/ ostale vešt šume			111,45	76,82	58,59	131,18	148,77	170,93	199,35
Forest/ Šuma	101,57	101,67	153,14	153,84	153,89	154,16	154,31	154,46	154,60
Other wooded land/ Ostalo šumsko zemljište	20,91	5,76	63,41	72,56	72,56	72,56	72,56	72,56	72,56

Category/Kategorija	Total growing stock (m³ over bark)/ Ukupna drvena zapremina (m³ sa korom)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest/ Prirodno obnovljene šume	232 982 500,00	248 050 000,00	391 595 179,38	397 989 421,47	397 991 082,52	398 612 481,09	398 820 167,62	399 027 854,16	399 235 540,70
Planted forest/ Veštački podignute šume	1 950 000,00	1 950 000,00	23 787 240,6	20 311 882,44	20 619 792,90	20 992 890,67	21 219 893,41	21 446 896,16	21 673 898,90
...of which plantation forest/ plantaže			6 040 658,8	5 616 554,46	5 616 554,46	5 524 112,23	5 493 298,15	5 462 484,07	5 431 669,99
...of which other planted forest/ ostale vešt šume			17 746 581,85	14 695 327,97	15 003 238,44	15 468 778,44	15 726 595,26	15 984 412,08	16 242 228,91
Forest/ Šuma	234 932 500,00	250 000 000,00	415 382 420,00	418 301 303,91	418 610 875,42	419 605 371,75	420 040 061,03	420 474 750,32	420 909 439,60
Other wooded land/ Ostalo šumsko zemljište	6 000 000,00	3 000 000,00	26 000 000,00	36 879 386,00	36 879 386,00	36 879 386,00	36 879 386,00	36 879 386,00	36 879 386,00

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Growing stock m³/ha (over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	102.45	102.46	154.60	158.94	162.91	155.08	154.43	153.79	153.15
Planted forest	50.00	50.00	131.86	94.47	74.40	138.59	152.10	168.12	187.08
...of which plantation forest			285.34	236.84	266.98	164.63	162.38	160.21	158.08
...of which other planted forest	50.00	50.00	111.45	76.82	58.57	131.19	148.82	170.89	199.31
Forest	101.60	101.63	153.14	153.84	153.89	154.16	154.31	154.46	154.60
Other wooded land	20.91	5.76	63.41	72.57	72.57	72.57	72.57	72.57	72.57

FRA categories	Total growing stock (million m³ over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	232.98	248.05	391.59	398.14	397.99	398.61	398.82	399.03	399.24
Planted forest	1.95	1.95	23.79	20.31	20.62	20.99	21.22	21.45	21.67
...of which plantation forest	0.00	0.00	6.04	5.62	5.62	5.52	5.49	5.46	5.43
...of which other planted forest	1.95	1.95	17.75	14.69	15.00	15.47	15.73	15.98	16.24
Forest	235.00	250.00	415.47	418.37	418.61	419.60	420.04	420.47	420.91
Other wooded land	6.00	3.00	26.00	36.88	36.88	36.88	36.88	36.88	36.88

Comments

2b Growing stock composition

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), and NFI data.

National classification and definitions

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Original data

FRA categories / Native tree species/ Autohtone drvne vrste			Growing stock in forest/ Drvna zapremina u šumi				
			(million m³ sa korom)				
Ranked in terms of volume/ po V	Scientific name	Common name	1990	2000	2010	2015	2020
1 st	<i>Fagus Moesiaca</i>	Beach (Bukva)	120	101	163	164	165
2 nd	<i>Quercus Cerris</i>	Turkey Oak (Cer)	27	15	52	51	51
3 rd	<i>Quercus Petraea</i>	Sessile Oak (Kitnjak)	19	11	26	27	27
4 th	<i>Quercus Robur</i>	Common Oak (Lužnjak)	3	5	9	8	8
5 th	<i>Picea Abies</i>	Norway Spruce (Smrča)	11	4	20	17	17
6 th	<i>Quercus Frainetto</i>	Hungarian Oak (Sladun)	3	4	22	24	24
7 th	<i>Carpinus Betulus</i>	Common Hornbeam (Grab)	3	4	15	20	21
8 th	<i>Abies Alba</i>	Silver Fir (Jela)	6	3	10	9	10
9 th	<i>Tilia Argentea</i>	Silver Lime (Srebrna lipa)	2	3	2	4	5
10 th	<i>Robinia Pseudoacacia</i>	Black Locust (Bagrem)	2	2	26	16	17
Remaining native tree species/ Preostale autohtone vrste			39	98	70	79	76
Total volume of native tree species/ Ukupna zapremina autohtonih vrsta			235	250	415	418	421

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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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	Fagus Moesiaca	Beach (Bukva)	120.00	101.00	163.00	164.00	165.00
#2 Ranked in terms of volume	Quercus Cerris	Turkey Oak (Cer)	27.00	15.00	52.00	51.00	51.00
#3 Ranked in terms of volume	Quercus Petraea	Sessile Oak (Kitnjak)	19.00	11.00	26.00	27.00	27.00
#4 Ranked in terms of volume	Quercus Robur	Common Oak (Lu znjak)	3.00	5.00	9.00	8.00	8.00
#5 Ranked in terms of volume	Picea Abies	Norway Spruce (Smrca)	11.00	4.00	20.00	17.00	17.00
#6 Ranked in terms of volume	Quercus Frainetto	Hungarian Oak (Sladun)	3.00	4.00	22.00	24.00	24.00
#7 Ranked in terms of volume	Carpinus Betulus	Common Hornbeam (Grab)	3.00	4.00	15.00	20.00	21.00
#8 Ranked in terms of volume	Abies Alba	Silver Fir (Jela)	6.00	3.00	10.00	9.00	10.00
#9 Ranked in terms of volume	Tilia Argentea	Silver Lime (Srebrna lipa)	2.00	3.00	2.00	4.00	5.00
#10 Ranked in terms of volume	Robinia Pseudoacacia	Black Locust (Bagrem)	2.00	2.00	26.00	15.00	17.00
Remaining native tree species			39.00	98.00	70.00	79.00	76.00
Total volume of native tree species			235.00	250.00	415.00	418.00	421.00
Introduced tree species							
#1 Ranked in terms of volume							
#2 Ranked in terms of volume							

FRA categories	Scientific name	Common name	Growing stock in forest (million m³ over bark)				
			1990	2000	2010	2015	2020
Native tree species							
#3 Ranked in terms of volume							
#4 Ranked in terms of volume							
#5 Ranked in terms of volume							
Remaining introduced tree species							
Total volume of introduced tree species			–	–	–	–	–
Total growing stock			235.00	250.00	415.00	418.00	421.00

Comments

2c Biomass stock

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), NFI data and previous FRA reporting.

National classification and definitions

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 2mm 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.

Original data

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Analysis and processing of national data

Estimation and forecasting

Insert the percentages of Growing stock by IPCC forest type for each of the FRA forest categories								
IPCC forest types	FRA forest categories							
	Naturally regenerating forest	Plantation forest	Other planted forest					
	% of Growing stock							
Broadleaved	91%	100%	39%					
Pine	2%		45%					
Other coniferous	7%		16%					
	100%	100%	100%	Must add up to 100%				
Insert Carbon fraction used by country (IPCC default = 0.47)								
Carbon Fraction	47%							
Biomass conversion and expansion factors (BCEF)								

Naturally regenerating forest	1990	2000	2010	2015	2016	2017	2018	2019	2020
Broadleaved	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Pine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Other coniferous	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Plantation forest									
Broadleaved	3.00	3.00	0.80	0.80	0.80	1.05	1.05	1.05	1.05
Pine	1.80	1.80	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Other coniferous	3.00	3.00	0.70	0.70	0.70	0.75	0.75	0.75	0.75
Other planted forest									
Broadleaved	3.00	3.00	1.05	1.40	1.40	1.05	1.05	1.05	1.05
Pine	1.80	1.80	0.70	0.75	0.75	0.70	0.70	0.70	0.70
Other coniferous	3.00	3.00	0.75	1.00	1.00	0.75	0.75	0.75	0.75
Weighted BCEF									
Naturally regenerating forest	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Plantation forest	3.00	3.00	0.80	0.80	0.80	1.05	1.05	1.05	1.05
Other planted forest	2.46	2.46	0.84	1.04	1.04	0.84	0.84	0.84	0.84
Root-shoot ratios									
Naturally regenerating forest	1990	2000	2010	2015	2016	2017	2018	2019	2020
Broadleaved	0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Pine	0.29	0.29	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Other coniferous	0.29	0.29	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Plantation forest									
Broadleaved	0.46	0.46	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Pine	0.40	0.40	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Other coniferous	0.40	0.40	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Other planted forest									
Broadleaved	0.46	0.46	0.23	0.23	0.46	0.23	0.23	0.23	0.24
Pine	0.40	0.40	0.29	0.29	0.29	0.29	0.29	0.29	0.20

Other coniferous	0.40	0.40	0.29	0.29	0.29	0.29	0.29	0.29	0.20
Weighted RS ratio									
Naturally regenerating forest	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Plantation forest	0.46	0.46	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Other planted forest	0.42	0.42	0.27	0.27	0.36	0.27	0.27	0.27	0.22
Above-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	104.70	104.71	158.00	162.44	166.49	158.49	157.83	157.17	156.52
Plantation forest	0.00	0.00	228.27	189.47	213.58	172.86	170.50	168.22	165.98
Other planted forest	0.00	0.00	94.12	80.16	61.12	110.79	125.68	144.32	168.32
Total	102.94	103.05	154.80	156.89	156.94	156.60	156.74	156.87	156.99
Below-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	24.65	24.65	37.35	38.40	39.36	37.47	37.31	37.16	37.00
Plantation forest	0.00	0.00	54.79	45.47	51.26	41.49	40.92	40.37	39.84
Other planted forest	0.00	0.00	25.09	21.37	21.78	29.54	33.51	38.47	36.29
Total	24.23	24.26	36.77	37.26	37.80	37.17	37.21	37.24	37.02

Reclassification into FRA 2020 categories

Forest biomass (tonnes/ha)	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	102,94	103,05	153,76	155,93	156,94	156,60	156,74	156,87	156,99
Below-ground biomass	24,23	24,26	36,54	37,05	37,80	37,17	37,21	37,24	37,02

FRA categories	Forest biomass (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	102.94	103.05	154.80	156.89	156.94	156.60	156.74	156.87	156.99
Below-ground biomass	24.23	24.26	36.77	37.26	37.80	37.17	37.21	37.24	37.02
Dead wood	36.30	41.20	70.30	71.16	71.16	71.16	71.16	71.16	71.16

Comments

2d Carbon stock

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, NFI data and previous FRA reporting.

National classification and definitions

Carbon in above-ground biomass	FRA 2020 definition used.
Carbon in below-ground biomass	FRA 2020 definition used.
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.
Carbon in litter	Carbon in all non-living biomass with a diameter less than the minimum diameter of 10 cm, lying dead in various states of decomposition above the mineral or organic soil. This includes the litter, fomic and humic layers.
Soil carbon	Organic carbon in mineral and organic soils in soil profile to a parent rock (substratum).

Original data

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Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

Carbon in Forest biomass (tonnes/ha)	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	48,38	48,44	72,27	73,29	73,76	73,60	73,67	73,73	73,79
Below-ground biomass	11,39	11,40	17,17	17,42	17,76	17,47	17,49	17,50	17,40

FRA categories	Forest carbon (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Carbon in above-ground biomass	48.38	48.44	72.76	73.74	73.76	73.60	73.67	73.73	73.79
Carbon in below-ground biomass	11.39	11.40	17.28	17.51	17.76	17.47	17.49	17.50	17.40
Carbon in dead wood	17.25	19.46	33.45	34.39	34.39	34.39	34.39	34.39	34.39
Carbon in litter	41.60	47.70	47.95	51.64	51.64	51.64	51.64	51.64	51.64
Soil carbon	247.00	283.20	284.72	306.62	306.62	306.62	306.62	306.62	306.62

Soil depth (cm) used for soil carbon estimates	20.00
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Comments

3 Forest designation and management

3a Designated management objective

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), NFI data and previous FRA reporting.

National classification and definitions

National class	Definition
Production function	Those forest and forest land (other wooded land) designated for maximal production and utilisation of productive potentials of stands without conflicts.
Protective function	Forest complexes with different type of protection as a main purpose of management.
Biodiversity conservation	Forest and forest land (other wooded land) designated for biodiversity conservation as well as biotope protection (conservation).
Recreational forests	Forests and forest land (other wooded land) designated for provision of recreational service as a part of social function.
Multiple function	Forest and forest land (other wooded land) designated as combination of different functions like: production of goods, protection of soil and water, conservation of biodiversity and provision of social services and where none of these alone can be considered as being significantly more important than the others.
No or unknown function	Forest and forest land (other wooded land) for which a specific function has not been designated or where designated function is unknown.

Original data

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Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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Primary designated management objective

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production (a)	2 013.00	1 952.00	2 276.00	1 838.53	1 787.00
Protection of soil and water (b)	125.00	286.00	177.00	571.00	598.00
Conservation of biodiversity (c)	123.00	125.00	126.00	163.00	181.65
Social Services (d)	52.00	64.00	68.00	73.00	80.00
Multiple use (e)	0.00	33.00	66.00	57.00	58.00
Other (specify in comments) (f)	0.00	0.00	0.00	17.00	18.00
None/unknown (g)	0.00	0.00	0.00	0.00	0.00
Total forest area	2 313.00	2 460.00	2 713.00	2 719.53	2 722.65

Total area with designated management objective

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production	2 013.00	1 952.00	2 276.00	2 436.53	2 443.00
Protection of soil and water	125.00	286.00	177.00	598.00	800.00
Conservation of biodiversity	123.00	125.00	126.00	163.00	181.65
Social Services	52.00	64.00	68.00	164.00	185.00
Other (specify in comments)		33.00	66.00	17.00	18.00

Comments

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

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), NFI data and previous FRA reporting.

National classification and definitions

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Original data

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Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest area within protected areas	175.00	239.00	452.00	501.00	501.00	501.00	501.00	501.00	501.00
Forest area with long-term forest management plan	1 494.00	1 999.00	1 283.00	1 157.95	1 144.92	1 144.65	1 146.52	1 146.52	1 146.52
...of which in protected areas	175.00	239.00	452.00	501.00	501.00	501.00	501.00	501.00	501.00

Comments

4 Forest ownership and management rights

4a Forest ownership

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry domains), NFI data and previous FRA reporting.

National classification and definitions

National class	Definition
Private ownership	Land owned by individuals, but also religious communities.
State ownership	Land owned by the State or government-owned institutions or co-operatives or other public bodies including cities and educational institutions.
Other types of ownership	Unspecified ownership (areas of unknown ownership) in Kosovo and Metohija

Original data

Categories	Forest area/ Povrsina suma (000 hectares)			
	1990	2000	2010	2015
Private ownership/ Privatno vlasnistvo (a)	1 170.00	1 213.85	1 213.32	1 561.58
...of which owned by individuals/ individualno vlasnistvo	1 170.00	1 213.85	1 213.32	1 537.63
...of which owned by private business entities and institutions/ vlasnistvo privatnih poslovnih entiteta i institucija	0	0	0	23.95
...of which owned by local, tribal and indigenous communities/ vlasnistvo lokalnih, plemenskih i domorodackih zajednica	0	0	0	0
Public ownership/ Javno vlasnistvo (b)	1 143.00	1 245.77	1 381.88	1 157.95
Other/unknown (specify in comments)// Ostalo, nepoznato (precizirati u komentarima) (c)	0	0	118.00	0
Total/ Ukupno (a+b+c)	2 313.00	2 459.62	2 713.00	2 719.53
Total forest area/ Ukupno povrsina suma	2 313.00	2 459.62	2 713.00	2 719.53

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Forest area (1000 ha)			
	1990	2000	2010	2015
Private ownership (a)	1 170.00	1 213.85	1 213.32	1 561.58
...of which owned by individuals	1 170.00	1 213.85	1 213.32	1 537.63
...of which owned by private business entities and institutions	0.00	0.00	0.00	23.95
...of which owned by local, tribal and indigenous communities	0.00	0.00	0.00	0.00
Public ownership (b)	1 143.00	1 245.77	1 381.88	1 157.95
Unknown/other (specify in comments) (c)	0.00	0.38	117.80	0.00
Total forest area	2 313.00	2 460.00	2 713.00	2 719.53

Comments

Unknown (unclear) property.

4b Holder of management rights of public forests

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), NFI data and previous FRA reporting.

National classification and definitions

-

Original data

Categories	Forest area/ Povrsina suma (000 hectares)			
	1990	2000	2005	2010
Public Administration/ Administracija (a)	1 143.00	1 246.00	1 382.00	1 158.00
Individuals/ Pojedinci (b)	0	0	0	0
Private business entities and institutions/ Privatni poslovni entiteti i institucije ©	0	0	0	0
Local, tribal and indigenous communities/ lokalne, plemenske i domorodacke zajednice (d)	0	0	0	0
Other (specify in comments)/ Ostalo (precizirati u komentarima) (e)	0	0	0	0
Total/ Ukupno (a+b+c+d+e)	1 143.00	1 246.00	1 382.00	1 158.00

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Forest area (1000 ha)			
	1990	2000	2010	2015
Public Administration (a)	1 143.00	1 245.77	1 381.88	1 157.95
Individuals (b)	0.00	0.00	0.00	0.00
Private business entities and institutions (c)	0.00	0.00	0.00	0.00
Local, tribal and indigenous communities (d)	0.00	0.00	0.00	0.00
Unknown/other (specify in comments) (e)	0.00	0.00	0.00	0.00
Total public ownership	1 143.00	1 245.77	1 381.88	1 157.95

Comments

5 Forest disturbances

5a Disturbances

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), NFI data and previous FRA reporting.

National classification and definitions

Outbreaks of insects	A detectable reduction in forest health caused by a sudden increase in numbers of harmful insects.
Outbreaks of diseases	A detectable reduction in forest health caused by a sudden increase in numbers of harmful pathogens, such as bacteria, fungi, phytoplasma or virus.
Severe weather events	Damage caused severe weather events, such as snow, storm, drought, ice rain etc.

Original data

-

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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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)	85.00	0.00	1.04	164.00	361.00	64.00	0.00	0.00	0.00	0.00	10.35	30.38	175.05	339.72	7.05	20.40	21.93	7.10
Diseases (b)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	2.24	1.94
Severe weather events (c)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.42	0.00	1.00	0.06
Other (specify in comments) (d)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total (a+b+c+d)	85.00	0.00	1.04	164.00	361.00	64.00	0.00	0.00	0.00	0.00	10.35	30.38	175.05	339.72	25.47	21.21	25.17	9.10
Total forest area	2 460.00	–	–	–	–	–	–	–	–	–	2 713.00	–	–	–	–	2 719.53	2 720.18	2 721.86

Comments

5b Area affected by fire

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry Domains), statistical data, Environment Protection Agency data and previous FRA reporting.

National classification and definitions

Forest protection shall be a system of measures and activities performed in the aim of prevention, suppression and elimination of the consequences of harmful effects of plant diseases, insects, rodents, game, livestock, man, fire, other natural disasters, and other biotic and abiotic factors. (Republic of Serbia Law on Forests, Official Gazette of the RS, no. 30/10, 93/12, 89/15; Article 8, bullet 24).

Original data

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Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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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	13.20	0.88	4.61	0.68	0.10	0.06	0.57	34.00	0.53	1.20	0.99	3.30	12.58	1.19	0.56	2.77	1.46	1.05
...of which on forest	1.77	0.10	1.37	0.43	0.01	0.05	0.54	16.52	0.53	0.38	0.69	1.26	8.18	0.85	0.28	1.85	0.91	0.68

Comments

5c Degraded forest

Does your country monitor area of degraded forest		Yes
If "yes"	What is the national definition of "Degraded forest"?	Degraded forest shall mean the forest which has significantly lost the quality, vitality, and the capacity of increment and natural regeneration;
	Describe the monitoring process and results	The ICP Forest Program (International Cooperative Program for Monitoring the State of the Forests of Europe) in the Republic of Serbia has been ongoing continuously since 2003. The basis for this program is the Convention on Longrange Transboundary Air Pollution (Convention on Long-Range Transboundary Air Pollution). Monitoring results can be found on: http://www.forest.org.rs/files/PROCENA%20I%20PRACENjE%20EFEKATA%20-%20UTICAJA%20VAZDUSNIH%20ZAGADENjA%20NA%20SUMSKE%20EKOSISTEME%20U%20REPUBLICI%20SRBIJI%20-%202018.pdf

Comments

The ICP Forest Program (International Cooperative Program for Monitoring the State of the Forests of Europe) in the Republic of Serbia has been ongoing continuously since 2003. The basis for this program is the Convention on Longrange Transboundary Air Pollution (Convention on Long-Range Transboundary Air Pollution). Monitoring results can be found on: <http://www.forest.org.rs/files/PROCENA%20I%20PRACENjE%20EFEKATA%20-%20UTICAJA%20VAZDUSNIH%20ZAGADENjA%20NA%20SUMSKE%20EKOSISTEME%20U%20REPUBLICI%20SRBIJI%20-%202018.pdf>

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

Directorate of Forests data and previous FRA reporting.

National classification and definitions

-

Original data

-

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

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry domains), NFI data and previous FRA reporting.

National classification and definitions

-

Original data

-

FRA 2020 categories	Forest area (1000 ha)					
	Applicable?	1990	2000	2010	2015	2020
Area of permanent forest estate	Yes	2 313.00	2 460.00	2 713.20	2 719.53	2 722.65

Comments

7 Employment, education and NWFP

7a Employment in forestry and logging

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry), forestry school, statistical offices and previous FRA reporting.

National classification and definitions

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Original data

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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	12.00	1.90	10.10	8.06	1.10	6.96	7.64	1.12	6.52	9.09	1.45	7.64
...of which silviculture and other forestry activities	6.00	0.95	5.05	6.45	0.55	5.90	6.11	0.56	5.55	7.27	0.72	6.55
...of which logging	3.60	0.00	3.60	0.81	0.00	0.81	0.76	0.00	0.76	0.91	0.00	0.91
...of which gathering of non wood forest products	1.20	0.38	0.82	0.40	0.22	0.18	0.38	0.22	0.16	0.45	0.29	0.16
...of which support services to forestry	1.20	0.57	0.63	0.40	0.33	0.07	0.39	0.34	0.05	0.46	0.44	0.02

Comments

Because of lack of detailed data regarding employing sub-categories, like silviculture, logging, NWFP, and support services, estimation was done on the level of 80% of silvicultural activities, 10% of forest processing, 5% of NWFP and 5% of support services. Only exeption was for year 1990, where contribution of forest processing was about 30%, while silviculture was 50%, NWFP 10%, and 10% of other services.

7b Graduation of students in forest-related education

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, Faculty of Forestry data, and Forestry High School data.

National classification and definitions

Based on national education system at the Faculty of Forestry in Belgrade, there is no 3-years education course for bachelor degree, but 4-years courses plus 1-year for obtaining master degree.

Original data

FRA 2020 categories	Number of graduated students/ Broj diplomiranih studenata (učenika)											
	1990			2000			2010			2015		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Doctoral degree/ dr nauka	3	1	2	6	4	2	4	2	2	19	8	11
Master's degree/ mr i masteri	173	67	106	142	55	87	220	112	118	184	82	102
Bachelor's degree/ inženjeri	0	0	0	0	0	0	0	0	0	0	0	0
Technician certificate / diploma// Tehničari	153	18	135	144	21	123	95	5	90	125	25	100

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	3.00	1.00	2.00	6.00	4.00	2.00	4.00	2.00	2.00	19.00	8.00	11.00
Master's degree	173.00	67.00	106.00	142.00	55.00	87.00	220.00	112.00	118.00	184.00	82.00	102.00
Bachelor's degree	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Technician certificate / diploma	153.00	18.00	135.00	144.00	21.00	123.00	95.00	5.00	90.00	125.00	25.00	100.00
Total	329.00	86.00	243.00	292.00	80.00	212.00	319.00	119.00	210.00	328.00	115.00	213.00

Comments

7c Non wood forest products removals and value 2015

National Data

Data sources + type of data source eg NFI, etc

Directorate of Forests data, forest users official data (PE Srbijasume, PE Vojvodinasume, PE National Park Tara, PE National Park Kopaonik, PE National Park Fruska gora, PE National Park Djerdap, PE Sume Goc, Faculty of Forestry domains), data from Ministry of Environmental Protection, Serbian Environmental Protection Agency, hunting organizations data and previous FRA reporting.

National classification and definitions

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Original data

Marketed <u>plant</u> product / raw material	Ref. year	Marketed <u>plant</u> product/ raw material			Marketed <u>animal</u> product/ raw material	Ref. year	Marketed <u>animal</u> product/ raw material		
		Unit	Quantity	Value (1000 nation. currency)			Unit	Quantity	Value (1000 nation. currency)
			Q	V				Q	V
Christmas trees	2015	1000 pcs	300,0	240 000,0	Game meat	2015	tonnes	1 200,0	600 000,0
	2010		200,0	160 000,0		2010		1 178,5	396 836,0
	2005		50,0	20 000,0		2005		909,1	454 550,0
	2000		75,0	30 000,0		2000		4 171,9	2 085 950,0
	1990		n.a.	n.a.		1990		5 738,1	2 869 050,0
Mushrooms	2015	tonnes	4 000,0	2 000 000,0	Game harvest/shot	2015	1000 pcs	300,0	600 000,0
	2010		3 237,6	1 402 855,6		2010		282,2	564 400,0
	2005		5 498,1	8 797 960,0		2005		331,3	662 600,0
	2000		2 300,0	4 600 000,0		2000		303,0	606 000,0
	1990		n.a.	n.a.		1990		1 199,0	2 398 000,0
Fruits, berries and edible nuts	2015	tonnes	3 708,0	407 880,0	Hides, skins and trophies	2015	1000 pcs	300,0	7 200 000,0
	2010		3 209,0	335 340,5		2010		264,4	490 100,0
	2005		107,8	8 624,0		2005		10,6	254 400,0
	2000		193,2	15 456,0		2000		5,3	127 200,0
	1990		119,0	9 520,0		1990		12,8	307 200,0
Herbs and aromatic plants	2015	tonnes	1 647,0	1 317 600,0	Wild honey and bee-wax	2015	tonnes	5 000,0	1 500 000,0
	2010		602,4	481 920,0		2010		4 000,0	1 200 200,0
	2005		18,3	14 640,0		2005		3 665,0	916 000,0
	2000		3,1	2 480,0		2000		2 663,0	666 000,0
	1990		18,1	14 480,0		1990		2 659,0	665 000,0
Other plant products (seeds, roots, plant parts)	2015	tonnes	200,0	160 000,0	Other animal products	2015	tonnes	n.a.	n.a.
	2010		113,3	197 687,7		2010		n.a.	n.a.

	2005		557,5	446 000,0			2005		1 230,5	984 400,0
	2000		27,2	21 760,0			2000		1 100,0	880 000,0
	1990		59,9	47 920,0			1990		n.a.	n.a.

	Name of NWFP product	Key species	Quantity	Unit	Value (1000 local currency)	NWFP category
#1	Mushrooms	boletus	4 000	tons	2 000 000	1 Food
#2	Fruits, berries and edible nuts	blueberry, blackberry	3 708	tons	407 880	1 Food
#3	Herbs and aromatic plants		1 647	tons	1 317 600	3 Raw material for medicine and aromatic products
#4	Seeds, roots, plant parts		200	tons	160 000	8 Other plant products
#5	Hides skins and trophies		300	pcs	7 200 000	10 Hides skins and trophies
#6	Wild honey and beewax		5 000	tons	1 500 000	11 Wild honey and bee wax
#7	Game meat		1 200	tons	600 000	12 Wild meat
#8						
#9						
#10						
All other plant products					240 000	
All other animal products					600 000	
Total					14 025 480	

Name of currency	RSD
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Comments

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	28.13	31.02	31.09	31.10	31.12	31.12	31.13	31.13

Name of agency responsible	Directorate of Forests
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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	0.98	0.05	0.02	0.06	0.01	0.01	0.02

Name of agency responsible	Directorate of Forests
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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	103.05	154.80	156.89	156.94	156.60	156.74	156.87	156.99

Name of agency responsible	Directorate of Forests
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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	8.79	16.62	18.42	18.42	18.42	18.42	18.42	18.42

Name of agency responsible	Directorate of Forests
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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	73.51	47.18	42.58	42.10	42.09	42.16	42.16	42.16

Name of agency responsible	Directorate of Forests
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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	0.00	371.66	1 001.94	1 001.35	963.96	963.23	—	—