

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

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Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Belgorod oblast	Coniferous	29.0	5.5	11.3	16.9	1.0	7.3	70.9	14.5
Belgorod oblast	Pine	28.9	5.5	11.2	16.9	1.0	7.3	70.7	14.4
Belgorod oblast	Larch	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.1
Belgorod oblast	Hard deciduous	298.1	92.6	389.7	482.0	49.9	117.2	1429.6	451.6
Belgorod oblast	Oak	277.5	86.2	367.0	451.8	47.9	110.0	1340.5	425.4
Belgorod oblast	Soft deciduous	18.2	2.9	14.4	15.1	0.6	4.4	55.7	16.3
Belgorod oblast	Birch	2.7	0.3	2.2	1.4	0.1	0.3	7.0	2.4
Belgorod oblast	Aspen	9.4	1.7	6.4	7.8	0.2	2.7	28.2	7.5
Belgorod oblast	Other species	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
Belgorod oblast	Total	345.4	101.0	415.5	514.0	51.5	128.9	1556.3	482.5
Brjansk oblast	Coniferous	621.8	124.5	362.3	459.1	38.9	233.0	1839.6	467.2
Brjansk oblast	Pine	525.4	90.5	275.7	360.5	35.3	227.5	1514.8	377.3
Brjansk oblast	Spruce	96.0	34.0	86.4	98.6	3.7	5.4	324.2	89.7
Brjansk oblast	Larch	0.4	0.0	0.3	0.0	0.0	0.0	0.6	0.3
Brjansk oblast	Hard deciduous	83.4	24.7	138.6	168.1	20.2	45.5	480.4	162.9
Brjansk oblast	Oak	81.5	24.6	134.1	163.4	19.9	45.1	468.5	158.1
Brjansk oblast	Soft deciduous	624.3	120.6	566.1	474.0	77.5	173.6	2036.0	658.8
Brjansk oblast	Birch	421.1	84.5	402.5	274.1	48.5	94.7	1325.5	454.9
Brjansk oblast	Aspen	131.3	26.8	109.6	152.2	19.5	55.1	494.5	137.5
Brjansk oblast	Shrubs	0.0	4.4	5.4	2.0	0.0	2.5	14.4	6.4
Brjansk oblast	Total	1329.4	274.1	1072.4	1103.2	136.6	454.6	4370.3	1295.2
Vladimir oblast	Coniferous	985.2	211.4	574.8	705.8	62.3	376.8	2916.3	744.2
Vladimir oblast	Pine	862.7	161.6	440.7	565.7	56.5	369.4	2456.7	605.4
Vladimir oblast	Spruce	122.1	49.7	133.7	140.0	5.8	7.4	458.7	138.4
Vladimir oblast	Larch	0.4	0.0	0.4	0.1	0.0	0.0	0.9	0.4
Vladimir oblast	Hard deciduous	9.7	3.3	20.8	24.8	2.5	5.3	66.3	23.7
Vladimir oblast	Oak	9.7	3.3	20.8	24.8	2.5	5.3	66.3	23.7
Vladimir oblast	Soft deciduous	700.7	144.3	674.4	520.9	92.4	198.4	2331.1	781.5
Vladimir oblast	Birch	578.5	122.2	575.8	392.6	74.0	147.9	1891.1	657.2
Vladimir oblast	Aspen	90.5	18.5	71.9	104.1	13.7	38.1	336.9	91.3
Vladimir oblast	Total	1695.6	358.9	1269.9	1251.6	157.2	580.5	5313.7	1549.3
Voronezh oblast	Coniferous	167.0	30.7	78.3	103.9	8.5	62.0	450.3	105.7
Voronezh oblast	Pine	167.0	30.7	78.3	103.9	8.5	62.0	450.3	105.7
Voronezh oblast	Hard deciduous	315.5	105.4	424.0	578.9	55.8	138.4	1618.0	496.1
Voronezh oblast	Oak	286.7	97.2	395.0	534.2	52.1	127.3	1492.5	461.6
Voronezh oblast	Soft deciduous	89.9	14.1	70.2	79.1	6.3	26.6	286.2	82.7
Voronezh oblast	Birch	11.8	1.9	10.1	7.0	0.8	2.4	34.0	11.3

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Voronezh oblast	Aspen	35.4	6.9	23.6	32.5	2.6	10.8	111.9	28.7
Voronezh oblast	Other species	0.4	0.0	0.9	0.2	0.0	0.0	1.5	0.9
Voronezh oblast	Shrubs	0.0	2.6	3.3	1.2	0.0	1.5	8.6	3.9
Voronezh oblast	Total	572.9	152.8	576.7	763.4	70.6	228.5	2364.8	689.3
Ivanovo oblast	Coniferous	482.3	111.3	337.3	397.1	34.8	166.4	1529.2	414.3
Ivanovo oblast	Pine	316.3	54.3	174.2	227.5	24.5	154.6	951.5	243.4
Ivanovo oblast	Spruce	165.4	57.0	162.8	169.5	10.3	11.8	576.8	170.6
Ivanovo oblast	Larch	0.6	0.0	0.2	0.1	0.0	0.0	0.9	0.2
Ivanovo oblast	Hard deciduous	3.5	1.2	9.2	11.6	1.3	2.6	29.5	10.6
Ivanovo oblast	Oak	3.5	1.2	9.2	11.6	1.3	2.6	29.5	10.6
Ivanovo oblast	Soft deciduous	658.3	134.0	658.3	510.1	94.4	190.8	2246.0	762.9
Ivanovo oblast	Birch	536.5	112.3	553.5	368.0	74.4	137.6	1782.2	630.9
Ivanovo oblast	Aspen	101.7	19.9	84.1	122.0	16.8	42.3	386.8	106.1
Ivanovo oblast	Shrubs	0.0	0.1	0.1	0.0	0.0	0.0	0.2	0.1
Ivanovo oblast	Total	1144.2	246.6	1004.9	918.8	130.5	359.9	3804.9	1188.0
Kaluga oblast	Coniferous	408.8	105.1	304.4	327.8	24.5	94.7	1265.4	349.6
Kaluga oblast	Pine	190.7	31.3	100.9	135.5	12.6	82.7	553.7	137.8
Kaluga oblast	Spruce	217.4	73.8	202.8	191.6	11.9	12.0	709.5	211.2
Kaluga oblast	Larch	0.7	0.0	0.7	0.7	0.0	0.0	2.2	0.7
Kaluga oblast	Hard deciduous	48.3	14.4	104.0	117.6	16.7	31.0	332.0	121.4
Kaluga oblast	Oak	40.6	12.5	91.8	104.6	15.7	28.6	293.7	108.0
Kaluga oblast	Soft deciduous	926.7	189.1	942.4	808.1	149.1	285.1	3300.6	1101.2
Kaluga oblast	Birch	645.2	134.3	688.3	450.9	97.6	164.9	2181.3	783.5
Kaluga oblast	Aspen	231.5	46.6	206.8	309.3	46.6	107.9	948.6	263.9
Kaluga oblast	Total	1383.9	308.6	1350.8	1253.5	190.3	410.9	4898.0	1572.3
Kostroma oblast	Coniferous	2155.2	586.1	1783.5	2305.4	191.3	812.9	7834.4	2166.1
Kostroma oblast	Pine	1264.0	242.5	715.6	926.4	104.4	701.4	3954.3	1027.5
Kostroma oblast	Spruce	890.7	343.6	1067.0	1378.6	86.9	111.4	3878.2	1137.6
Kostroma oblast	Larch	0.6	0.0	0.8	0.5	0.0	0.0	1.8	0.8
Kostroma oblast	Hard deciduous	0.5	0.1	0.9	0.9	0.1	0.2	2.8	1.0
Kostroma oblast	Oak	0.5	0.1	0.9	0.9	0.1	0.2	2.8	1.0
Kostroma oblast	Soft deciduous	3234.5	695.3	3335.2	2499.2	487.5	981.4	11233.2	3874.0
Kostroma oblast	Birch	2651.7	573.8	2872.4	1866.8	404.8	747.3	9116.7	3292.8
Kostroma oblast	Aspen	557.0	119.1	434.5	603.2	78.5	218.2	2010.5	545.3
Kostroma oblast	Total	5390.2	1281.5	5119.6	4805.5	678.9	1794.5	19070.3	6041.1
Kursk oblast	Coniferous	30.3	6.6	21.3	25.3	1.6	9.2	94.3	25.5
Kursk oblast	Pine	29.3	6.3	20.6	25.0	1.6	9.2	91.9	24.8

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Kursk oblast	Spruce	0.9	0.3	0.6	0.3	0.0	0.0	2.2	0.6
Kursk oblast	Larch	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.1
Kursk oblast	Hard deciduous	243.2	77.2	342.7	451.8	43.8	107.6	1266.4	398.9
Kursk oblast	Oak	207.2	67.5	299.8	395.7	39.2	95.7	1105.0	349.8
Kursk oblast	Soft deciduous	68.9	11.8	59.1	60.4	7.4	20.3	227.8	69.4
Kursk oblast	Birch	23.4	4.2	21.1	14.6	1.8	4.2	69.3	23.3
Kursk oblast	Aspen	22.0	4.4	20.8	27.4	3.8	10.8	89.1	26.3
Kursk oblast	Other species	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.2
Kursk oblast	Shrubs	0.0	0.4	0.5	0.1	0.0	0.2	1.3	0.6
Kursk oblast	Total	342.4	96.1	423.8	537.6	52.8	137.4	1590.1	494.6
Lipetsk oblast	Coniferous	77.3	16.7	59.5	75.0	6.0	30.4	265.0	73.5
Lipetsk oblast	Pine	76.8	16.7	59.1	74.7	6.0	30.4	263.8	73.1
Lipetsk oblast	Spruce	0.2	0.0	0.1	0.1	0.0	0.0	0.4	0.1
Lipetsk oblast	Larch	0.3	0.0	0.3	0.2	0.0	0.0	0.8	0.3
Lipetsk oblast	Hard deciduous	107.5	33.0	155.3	198.3	20.8	45.6	560.5	179.8
Lipetsk oblast	Oak	103.1	32.3	150.1	191.0	20.3	44.3	541.1	173.9
Lipetsk oblast	Soft deciduous	67.1	11.9	58.0	50.5	7.4	17.6	212.5	67.3
Lipetsk oblast	Birch	34.8	6.9	33.5	22.6	3.8	7.9	109.4	37.8
Lipetsk oblast	Aspen	16.9	3.1	12.9	17.2	1.9	5.7	57.8	15.8
Lipetsk oblast	Shrubs	0.0	0.2	0.2	0.1	0.0	0.1	0.6	0.2
Lipetsk oblast	Total	251.9	61.9	273.0	323.8	34.2	93.8	1038.5	320.8
Moscow oblast	Coniferous	906.2	205.0	806.0	907.4	74.9	277.7	3177.3	939.6
Moscow oblast	Pine	530.5	89.2	289.4	384.6	38.1	241.8	1573.5	397.6
Moscow oblast	Spruce	370.4	115.0	511.5	519.6	36.8	36.0	1589.3	536.9
Moscow oblast	Larch	5.4	0.9	5.1	3.1	0.0	0.0	14.5	5.1
Moscow oblast	Hard deciduous	41.4	12.0	77.9	90.6	9.6	21.7	253.2	89.5
Moscow oblast	Oak	40.4	11.7	76.4	88.9	9.6	21.5	248.4	87.9
Moscow oblast	Soft deciduous	1356.6	275.2	1448.2	1139.3	233.7	428.4	4881.5	1689.7
Moscow oblast	Birch	1122.5	229.3	1172.4	770.5	164.5	272.9	3732.0	1330.9
Moscow oblast	Aspen	155.6	33.6	181.4	276.3	53.2	112.6	812.7	242.4
Moscow oblast	Total	2304.2	492.2	2332.1	2137.3	318.2	727.9	8311.9	2718.7
Orel oblast	Coniferous	48.0	9.1	25.4	31.2	2.3	14.1	130.1	31.7
Orel oblast	Pine	40.9	6.8	19.2	26.4	2.1	14.0	109.5	25.4
Orel oblast	Spruce	6.1	2.1	4.9	4.0	0.1	0.1	17.4	5.0
Orel oblast	Larch	1.0	0.1	1.3	0.8	0.0	0.0	3.2	1.3
Orel oblast	Hard deciduous	75.5	21.5	107.2	126.4	14.3	35.0	379.8	125.5
Orel oblast	Oak	70.7	20.5	101.8	119.3	14.0	34.1	360.4	119.6

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Orel oblast	Soft deciduous	120.2	22.4	96.3	95.2	11.4	27.9	373.4	110.9
Orel oblast	Birch	64.5	12.2	56.9	40.0	6.3	12.1	192.2	63.6
Orel oblast	Aspen	47.9	8.7	33.0	47.7	4.7	14.5	156.5	40.2
Orel oblast	Shrubs	0.0	0.3	0.3	0.1	0.0	0.1	0.8	0.3
Orel oblast	Total	243.7	53.2	229.2	252.9	27.9	77.2	884.0	268.5
Rjasan oblast	Coniferous	518.0	98.1	274.7	344.8	33.5	220.5	1489.6	373.0
Rjasan oblast	Pine	505.7	94.1	260.7	331.7	33.1	220.1	1445.3	358.7
Rjasan oblast	Spruce	11.6	4.0	13.4	12.8	0.5	0.5	42.7	13.8
Rjasan oblast	Larch	0.7	0.0	0.6	0.3	0.0	0.0	1.6	0.6
Rjasan oblast	Hard deciduous	136.3	42.2	216.9	260.1	29.7	61.7	746.9	250.5
Rjasan oblast	Oak	135.6	42.2	216.3	258.9	29.7	61.5	744.4	249.8
Rjasan oblast	Soft deciduous	629.2	132.1	612.8	502.0	83.0	180.3	2139.5	709.8
Rjasan oblast	Birch	461.7	97.6	472.1	320.7	60.9	120.9	1533.8	538.7
Rjasan oblast	Aspen	105.0	22.2	84.6	120.7	15.7	43.9	392.1	106.9
Rjasan oblast	Shrubs	0.0	1.1	1.6	0.6	0.0	0.6	3.9	1.8
Rjasan oblast	Total	1283.6	273.5	1106.0	1107.5	146.2	463.1	4379.9	1335.1
Smolensk oblast	Coniferous	691.0	204.8	657.5	737.7	45.3	164.6	2501.0	736.9
Smolensk oblast	Pine	197.7	34.3	125.8	167.2	18.7	132.2	675.9	184.3
Smolensk oblast	Spruce	493.0	170.5	531.3	570.3	26.5	32.4	1824.1	552.2
Smolensk oblast	Larch	0.3	0.0	0.3	0.3	0.0	0.0	1.0	0.3
Smolensk oblast	Hard deciduous	7.5	1.7	12.9	14.9	0.8	3.2	41.0	14.4
Smolensk oblast	Oak	3.2	0.8	6.0	7.2	0.3	1.7	19.2	6.8
Smolensk oblast	Soft deciduous	1409.2	277.3	1398.9	1158.3	217.2	421.1	4882.0	1632.5
Smolensk oblast	Birch	1025.2	206.2	1033.4	692.8	140.3	237.7	3335.6	1170.6
Smolensk oblast	Aspen	256.8	52.8	227.9	338.0	52.4	122.2	1050.0	292.5
Smolensk oblast	Shrubs	0.0	0.3	0.3	0.2	0.0	0.2	1.0	0.4
Smolensk oblast	Total	2107.7	484.1	2069.6	1911.2	263.3	589.0	7424.9	2384.2
Tambov oblast	Coniferous	209.4	39.2	99.3	132.9	11.7	77.7	570.3	133.9
Tambov oblast	Pine	209.0	39.2	98.9	132.9	11.7	77.7	569.5	133.5
Tambov oblast	Larch	0.3	0.0	0.4	0.0	0.0	0.0	0.8	0.4
Tambov oblast	Hard deciduous	122.2	38.8	155.8	210.2	14.2	40.0	581.2	176.1
Tambov oblast	Oak	119.3	38.0	152.4	204.9	14.2	39.2	568.1	172.3
Tambov oblast	Soft deciduous	168.2	31.6	133.6	132.4	14.4	45.0	525.1	155.9
Tambov oblast	Birch	78.1	15.1	68.0	48.7	6.2	15.8	232.0	76.2
Tambov oblast	Aspen	61.8	12.8	40.3	56.4	5.3	18.6	195.2	49.3
Tambov oblast	Other species	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.1
Tambov oblast	Shrubs	0.0	1.0	1.3	0.4	0.0	0.5	3.2	1.5

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Tambov oblast	Total	499.9	110.6	390.1	476.0	40.2	163.2	1680.0	467.4
Tver oblast	Coniferous	1888.2	520.7	1661.6	1998.8	171.7	802.1	7043.0	2034.0
Tver oblast	Pine	963.1	183.7	629.1	854.1	103.0	719.7	3452.7	947.9
Tver oblast	Spruce	924.4	336.9	1032.0	1144.4	68.7	82.4	3588.8	1085.6
Tver oblast	Larch	0.6	0.2	0.5	0.3	0.0	0.0	1.5	0.5
Tver oblast	Hard deciduous	0.5	0.0	1.2	1.5	0.0	0.3	3.5	1.3
Tver oblast	Oak	0.3	0.0	0.9	0.9	0.0	0.3	2.4	1.0
Tver oblast	Soft deciduous	2465.2	511.2	2559.7	1994.5	397.7	802.2	8730.5	2999.9
Tver oblast	Birch	1938.3	409.8	2068.2	1359.1	290.3	524.0	6589.7	2364.9
Tver oblast	Aspen	407.5	86.8	337.6	486.6	73.7	183.0	1575.3	432.9
Tver oblast	Total	4353.8	1031.8	4222.4	3994.8	569.5	1604.6	15777.0	5035.1
Tula oblast	Coniferous	38.9	8.2	25.3	25.4	1.1	6.7	105.5	28.3
Tula oblast	Pine	20.0	2.8	9.2	13.5	0.9	6.7	53.1	12.2
Tula oblast	Spruce	15.1	5.0	12.1	9.3	0.1	0.0	41.7	12.1
Tula oblast	Larch	3.9	0.4	4.0	2.6	0.0	0.0	10.7	4.0
Tula oblast	Hard deciduous	162.7	47.7	231.4	273.7	30.1	66.3	811.9	267.0
Tula oblast	Oak	150.4	45.0	216.5	256.6	28.9	63.4	760.9	250.5
Tula oblast	Soft deciduous	275.3	60.1	301.3	291.2	41.5	77.8	1047.3	344.9
Tula oblast	Birch	141.2	27.9	140.6	94.3	19.0	32.1	455.1	159.1
Tula oblast	Aspen	54.0	11.3	53.8	82.9	13.9	29.4	245.3	69.7
Tula oblast	Total	476.8	116.0	558.1	590.3	72.7	150.8	1964.6	640.2
Jaroslavl oblast	Coniferous	554.6	161.7	457.0	536.8	39.3	154.6	1903.9	530.6
Jaroslavl oblast	Pine	234.3	41.7	135.0	176.9	19.5	130.2	737.8	192.9
Jaroslavl oblast	Spruce	319.4	119.8	321.1	359.5	19.8	24.4	1164.0	336.8
Jaroslavl oblast	Larch	0.9	0.1	0.9	0.3	0.0	0.0	2.1	0.9
Jaroslavl oblast	Hard deciduous	3.3	0.7	7.4	8.0	0.9	2.0	22.2	8.5
Jaroslavl oblast	Oak	3.3	0.7	7.4	8.0	0.9	2.0	22.2	8.5
Jaroslavl oblast	Soft deciduous	1121.2	232.1	1176.8	933.1	183.0	378.3	4024.5	1383.0
Jaroslavl oblast	Birch	860.7	181.6	926.6	596.6	128.1	234.5	2928.1	1058.8
Jaroslavl oblast	Aspen	233.5	48.1	207.1	294.2	45.3	113.5	941.7	266.1
Jaroslavl oblast	Total	1679.1	394.4	1641.2	1477.8	223.2	534.9	5950.6	1922.1
Republic Karelia	Coniferous	4155.2	1224.0	4449.1	6891.5	1070.5	5521.6	23311.9	6978.9
Republic Karelia	Pine	2852.9	716.7	2160.6	3469.2	551.8	4795.4	14546.6	4244.3
Republic Karelia	Spruce	1301.6	507.3	2287.8	3421.6	518.7	726.2	8763.2	2733.9
Republic Karelia	Larch	0.7	0.0	0.7	0.7	0.0	0.0	2.1	0.7
Republic Karelia	Soft deciduous	1210.0	297.0	1595.4	1154.9	291.2	717.2	5265.6	1969.6
Republic Karelia	Birch	1129.1	275.2	1483.3	1022.3	265.1	652.7	4827.6	1823.9

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Republic Karelia	Aspen	70.9	20.5	90.1	110.6	19.4	47.3	358.7	114.8
Republic Karelia	Total	5365.2	1521.0	6044.5	8046.4	1361.7	6238.8	28577.6	8948.5
Republic Komi	Coniferous	8330.1	3365.2	17743.5	30770.1	7639.3	17101.6	84949.9	26875.9
Republic Komi	Pine	2743.1	746.4	2819.9	4906.5	1030.9	7471.9	19718.7	6117.9
Republic Komi	Spruce	5468.6	2559.0	14368.4	25267.2	6432.2	9306.2	63401.5	20020.5
Republic Komi	Fir	61.7	37.7	285.2	257.1	111.5	152.6	905.8	379.7
Republic Komi	Larch	46.7	18.1	245.4	308.2	48.2	152.9	819.5	321.0
Republic Komi	Cedar	10.0	4.0	24.7	31.0	16.6	18.1	104.4	36.9
Republic Komi	Soft deciduous	3911.0	1032.2	5821.4	4722.7	1781.2	3252.7	20521.2	7656.8
Republic Komi	Birch	3442.9	911.3	5340.9	4023.9	1607.9	2873.5	18200.3	6972.7
Republic Komi	Aspen	435.0	111.9	461.7	671.5	168.5	357.7	2206.2	655.3
Republic Komi	Shrubs	0.0	153.2	187.3	68.6	0.0	85.2	494.4	221.4
Republic Komi	Total	12241.0	4550.6	23752.2	35561.5	9420.6	20439.6	105965.5	34754.2
Arkhangelsk oblast	Coniferous	5661.2	2358.9	13234.4	21428.7	4886.7	11532.9	59102.8	19313.6
Arkhangelsk oblast	Pine	1885.4	555.6	2435.5	4409.4	915.3	6385.1	16586.3	5264.1
Arkhangelsk oblast	Spruce	3761.8	1796.5	10703.6	16900.3	3954.2	5102.4	42218.8	13930.8
Arkhangelsk oblast	Larch	14.0	6.8	95.3	118.9	17.3	45.4	297.7	118.7
Arkhangelsk oblast	Soft deciduous	3800.7	961.4	4996.8	3812.6	882.5	2138.8	16592.7	6117.1
Arkhangelsk oblast	Birch	3592.6	912.5	4804.8	3516.6	814.6	1982.4	15623.4	5842.1
Arkhangelsk oblast	Aspen	205.9	48.8	188.6	293.2	67.2	154.6	958.3	270.6
Arkhangelsk oblast	Shrubs	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
Arkhangelsk oblast	Total	9461.9	3320.3	18231.2	25241.3	5769.2	13671.7	75695.6	25430.6
Vologda oblast	Coniferous	2467.3	835.0	3684.9	4927.4	830.1	2895.4	15640.1	5092.1
Vologda oblast	Pine	973.4	247.3	1149.6	1794.5	346.0	2346.6	6857.6	2192.0
Vologda oblast	Spruce	1492.8	587.5	2533.8	3131.4	484.0	548.7	8778.3	2898.5
Vologda oblast	Larch	1.1	0.1	1.4	1.4	0.0	0.1	4.2	1.4
Vologda oblast	Soft deciduous	5504.5	1301.9	6640.8	4741.8	1079.2	2224.3	21492.6	7854.3
Vologda oblast	Birch	4690.2	1106.9	5750.4	3649.7	867.3	1679.7	17744.2	6682.5
Vologda oblast	Aspen	765.5	187.6	821.6	1021.6	194.8	497.9	3488.9	1079.2
Vologda oblast	Total	7971.8	2136.9	10325.7	9669.2	1909.3	5119.7	37132.7	12946.4
Kaliningrad oblast	Coniferous	111.9	29.5	78.2	80.6	4.4	27.8	332.4	90.6
Kaliningrad oblast	Pine	58.2	10.6	29.1	38.0	3.0	26.3	165.1	40.5
Kaliningrad oblast	Spruce	53.6	19.0	49.0	42.4	1.4	1.5	167.0	50.0
Kaliningrad oblast	Larch	0.1	0.0	0.1	0.1	0.0	0.0	0.3	0.1
Kaliningrad oblast	Hard deciduous	67.1	18.3	107.0	122.4	14.7	32.1	361.5	124.3
Kaliningrad oblast	Oak	39.3	10.9	66.7	77.6	11.0	23.4	228.8	79.4
Kaliningrad oblast	Soft deciduous	167.8	30.8	175.3	142.3	23.1	52.7	591.9	203.3

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

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Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Kaliningrad oblast	Birch	104.8	20.5	99.9	69.4	12.6	22.2	329.3	112.6
Kaliningrad oblast	Aspen	8.8	1.6	7.4	9.3	1.0	2.8	30.9	8.8
Kaliningrad oblast	Total	346.9	78.6	360.4	345.2	42.1	112.6	1285.9	418.1
Leningrad oblast	Coniferous	2181.3	564.9	2392.0	2768.8	338.5	1456.9	9702.4	3076.3
Leningrad oblast	Pine	1272.1	259.6	967.7	1331.1	178.7	1302.9	5312.1	1542.5
Leningrad oblast	Spruce	908.1	305.0	1423.0	1436.9	159.7	154.0	4386.9	1532.5
Leningrad oblast	Larch	1.0	0.2	1.3	0.8	0.0	0.0	3.4	1.3
Leningrad oblast	Hard deciduous	0.0	0.0	0.7	0.8	0.1	0.1	1.7	0.8
Leningrad oblast	Oak	0.0	0.0	0.6	0.7	0.1	0.1	1.5	0.7
Leningrad oblast	Soft deciduous	1740.5	387.9	2129.9	1683.6	405.4	692.9	7040.2	2528.7
Leningrad oblast	Birch	1445.7	326.2	1819.6	1230.9	309.2	496.4	5628.1	2110.9
Leningrad oblast	Aspen	267.1	58.7	251.3	395.8	82.4	161.6	1216.9	340.7
Leningrad oblast	Total	3921.8	952.8	4522.6	4453.2	744.0	2150.0	16744.3	5605.8
Murmansk oblast	Coniferous	1233.9	433.5	1568.8	3384.0	850.9	2919.8	10391.0	2992.0
Murmansk oblast	Pine	820.2	225.9	572.5	1099.6	178.8	1803.0	4700.1	1347.3
Murmansk oblast	Spruce	413.6	207.6	996.2	2284.3	672.1	1116.8	5690.6	1644.6
Murmansk oblast	Larch	0.1	0.0	0.1	0.1	0.0	0.0	0.3	0.1
Murmansk oblast	Soft deciduous	366.6	94.8	535.3	546.0	586.7	1157.5	3286.9	1174.3
Murmansk oblast	Birch	366.5	94.8	535.3	545.8	586.7	1157.4	3286.5	1174.3
Murmansk oblast	Aspen	0.1	0.0	0.0	0.2	0.0	0.1	0.4	0.0
Murmansk oblast	Total	1600.6	528.4	2104.1	3930.0	1437.6	4077.3	13677.9	4166.3
Novgorod oblast	Coniferous	1172.5	310.0	1249.9	1480.8	156.2	675.8	5045.1	1567.1
Novgorod oblast	Pine	610.8	122.3	457.1	624.8	82.2	595.9	2493.1	720.1
Novgorod oblast	Spruce	560.9	187.6	791.9	855.7	74.0	79.9	2550.0	846.1
Novgorod oblast	Larch	0.8	0.1	0.8	0.3	0.0	0.0	2.0	0.8
Novgorod oblast	Hard deciduous	2.6	0.9	5.5	6.5	1.1	2.3	19.0	6.8
Novgorod oblast	Oak	2.0	0.7	4.9	5.6	1.1	2.2	16.6	6.1
Novgorod oblast	Soft deciduous	2782.5	611.5	3458.3	2694.7	655.0	1239.4	11441.5	4150.6
Novgorod oblast	Birch	2188.0	490.2	2672.1	1737.6	432.1	727.5	8247.5	3092.7
Novgorod oblast	Aspen	393.6	86.0	392.7	573.8	115.1	250.9	1812.0	527.6
Novgorod oblast	Shrubs	0.0	2.8	3.2	1.0	0.0	1.2	8.2	3.7
Novgorod oblast	Total	3957.7	925.2	4716.9	4183.1	812.3	1918.7	16513.9	5728.1
Pskov oblast	Coniferous	845.7	197.6	669.7	818.2	92.3	570.7	3194.2	925.7
Pskov oblast	Pine	670.4	135.9	454.5	603.3	74.3	551.3	2489.8	697.3
Pskov oblast	Spruce	175.2	61.6	215.0	214.9	17.9	19.4	704.0	228.1
Pskov oblast	Larch	0.1	0.0	0.1	0.0	0.0	0.0	0.3	0.1
Pskov oblast	Hard deciduous	1.3	0.3	3.1	3.7	0.3	1.0	9.8	3.6

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Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Pskov oblast	Oak	1.0	0.3	2.5	3.0	0.3	1.0	8.1	3.0
Pskov oblast	Soft deciduous	851.2	184.5	1036.9	825.5	191.3	357.6	3447.1	1237.3
Pskov oblast	Birch	676.6	152.5	829.9	559.9	137.0	231.3	2587.3	963.5
Pskov oblast	Aspen	124.7	26.1	111.5	175.6	32.7	72.4	543.0	150.3
Pskov oblast	Total	1698.3	382.4	1709.7	1647.4	283.9	929.4	6651.0	2166.6
Nenetsk autonomous okrug	Coniferous	45.0	23.5	135.8	294.1	71.6	131.3	701.4	209.8
Nenetsk autonomous okrug	Pine	5.5	1.9	9.7	17.9	3.0	23.6	61.6	20.0
Nenetsk autonomous okrug	Spruce	39.5	21.6	125.7	275.7	68.5	107.5	638.6	189.3
Nenetsk autonomous okrug	Larch	0.0	0.0	0.4	0.5	0.1	0.2	1.2	0.5
Nenetsk autonomous okrug	Soft deciduous	2.5	0.9	7.7	5.2	3.8	5.9	26.0	11.2
Nenetsk autonomous okrug	Birch	2.5	0.9	7.7	5.2	3.8	5.9	26.0	11.2
Nenetsk autonomous okrug	Total	47.5	24.4	143.5	299.3	75.4	137.2	727.4	221.0
Republic Adygeja	Coniferous	8.4	8.5	77.4	65.4	17.5	19.1	196.3	90.3
Republic Adygeja	Pine	2.5	0.6	3.5	4.9	0.9	6.1	18.4	6.2
Republic Adygeja	Fir	5.8	7.9	73.9	60.5	16.7	13.0	177.9	84.1
Republic Adygeja	Hard deciduous	263.3	89.5	389.7	534.4	74.7	125.7	1477.3	462.4
Republic Adygeja	Oak	100.6	31.5	160.0	197.8	23.2	48.6	561.7	186.4
Republic Adygeja	Soft deciduous	27.8	5.7	26.1	28.3	3.9	12.0	103.9	32.1
Republic Adygeja	Birch	7.9	1.9	8.4	5.7	0.9	2.9	27.7	9.8
Republic Adygeja	Aspen	8.4	1.8	6.4	9.2	1.0	3.3	30.0	8.0
Republic Adygeja	Other species	7.2	1.3	6.6	5.8	0.3	1.9	23.2	7.5
Republic Adygeja	Shrubs	0.0	0.9	1.0	0.4	0.0	0.4	2.8	1.2
Republic Adygeja	Total	306.7	106.0	500.9	634.4	96.4	159.1	1803.4	593.5
Republic Dagestan	Coniferous	47.0	9.6	37.0	55.3	6.5	57.0	212.5	61.8
Republic Dagestan	Pine	47.0	9.6	37.0	55.3	6.5	57.0	212.5	61.8
Republic Dagestan	Hard deciduous	333.1	131.9	399.8	675.7	66.1	159.6	1766.2	483.5
Republic Dagestan	Oak	213.5	91.4	277.6	493.7	33.2	106.9	1216.3	330.3
Republic Dagestan	Soft deciduous	46.9	9.9	41.0	52.1	17.2	38.1	205.3	61.4
Republic Dagestan	Birch	28.4	6.0	20.9	25.8	11.9	25.0	118.0	34.5
Republic Dagestan	Aspen	2.9	0.3	2.2	3.0	0.3	1.7	10.4	3.0
Republic Dagestan	Other species	1.2	0.3	0.8	1.5	0.0	0.4	4.3	1.0
Republic Dagestan	Shrubs	0.0	6.4	8.1	2.3	0.0	3.2	20.0	9.4
Republic Dagestan	Total	428.2	158.2	486.7	786.9	89.9	258.5	2208.3	617.1
Ingushetia Republic	Coniferous	4.2	0.9	3.4	5.4	0.6	5.8	20.3	5.9
Ingushetia Republic	Pine	4.2	0.9	3.4	5.4	0.6	5.8	20.3	5.9
Ingushetia Republic	Hard deciduous	80.5	28.0	92.1	139.8	18.7	34.8	393.8	111.6
Ingushetia Republic	Oak	4.0	1.6	7.4	10.3	0.7	2.2	26.2	8.5



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Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Ingushetia Republic	Soft deciduous	16.1	4.4	19.4	23.6	5.5	11.8	80.9	25.8
Ingushetia Republic	Birch	7.2	1.5	6.4	7.3	2.8	6.3	31.5	9.8
Ingushetia Republic	Aspen	1.0	0.2	1.0	1.0	0.1	0.6	3.9	1.3
Ingushetia Republic	Shrubs	0.0	1.8	2.2	0.8	0.0	0.9	5.7	2.6
Ingushetia Republic	Total	100.8	35.1	117.1	169.6	24.8	53.3	500.7	145.9
Kabardino-Balkaria Republic	Coniferous	4.2	0.6	4.9	7.9	1.1	11.0	29.7	9.6
Kabardino-Balkaria Republic	Pine	4.2	0.6	4.9	7.9	1.1	11.0	29.7	9.6
Kabardino-Balkaria Republic	Hard deciduous	173.0	57.3	203.6	282.0	40.1	70.3	826.1	243.8
Kabardino-Balkaria Republic	Oak	24.0	7.9	37.0	47.8	3.2	8.9	128.8	41.5
Kabardino-Balkaria Republic	Soft deciduous	55.7	12.1	51.1	60.4	17.5	36.7	233.5	71.0
Kabardino-Balkaria Republic	Birch	23.1	5.1	20.0	22.5	10.4	20.6	101.7	31.4
Kabardino-Balkaria Republic	Aspen	2.4	0.6	2.4	3.0	0.6	1.7	10.8	3.3
Kabardino-Balkaria Republic	Other species	1.3	0.1	0.8	1.6	0.0	0.0	3.9	0.8
Kabardino-Balkaria Republic	Shrubs	0.0	1.0	1.2	0.2	0.0	0.2	2.7	1.3
Kabardino-Balkaria Republic	Total	234.3	71.1	261.6	352.1	58.6	118.2	1095.9	326.5
Kalmik Republic	Hard deciduous	5.0	1.7	9.1	14.4	1.1	4.2	35.4	11.1
Kalmik Republic	Oak	3.1	1.3	6.9	10.1	1.1	2.8	25.3	8.4
Kalmik Republic	Soft deciduous	0.9	0.1	0.4	0.7	0.0	0.3	2.5	0.5
Kalmik Republic	Other species	0.2	0.0	0.4	0.5	0.1	0.1	1.4	0.5
Kalmik Republic	Shrubs	0.0	4.2	4.9	1.4	0.0	2.0	12.5	5.7
Kalmik Republic	Total	6.1	6.0	14.8	17.1	1.2	6.6	51.8	17.8
Karachaevo-Cherkessia Republic	Coniferous	59.0	14.2	89.8	122.4	25.0	91.5	401.9	133.9
Karachaevo-Cherkessia Republic	Pine	53.6	10.8	51.5	78.4	12.1	84.5	290.9	88.9
Karachaevo-Cherkessia Republic	Spruce	1.7	0.7	14.6	14.8	3.9	3.0	38.6	17.0
Karachaevo-Cherkessia Republic	Fir	3.8	2.7	23.7	29.2	9.0	4.0	72.4	28.0
Karachaevo-Cherkessia Republic	Hard deciduous	191.8	71.2	295.5	425.6	70.8	107.0	1162.0	359.5
Karachaevo-Cherkessia Republic	Oak	54.6	21.1	103.1	142.6	12.4	29.0	362.7	118.4
Karachaevo-Cherkessia Republic	Soft deciduous	115.0	26.5	128.3	140.2	44.9	84.5	539.4	175.6
Karachaevo-Cherkessia Republic	Birch	68.6	16.4	87.5	87.5	33.7	61.4	355.2	122.2
Karachaevo-Cherkessia Republic	Aspen	15.2	3.5	13.1	17.7	3.8	7.8	61.2	17.4
Karachaevo-Cherkessia Republic	Other species	0.4	0.1	0.3	0.5	0.0	0.1	1.4	0.3
Karachaevo-Cherkessia Republic	Shrubs	0.0	1.7	2.0	0.7	0.0	0.9	5.3	2.4
Karachaevo-Cherkessia Republic	Total	366.2	113.7	515.9	689.4	140.7	284.1	2110.0	671.8
Republic Severnaja Osetia - Alania	Coniferous	5.8	1.0	4.7	6.8	0.8	8.3	27.4	8.3
Republic Severnaja Osetia - Alania	Pine	5.8	1.0	4.7	6.8	0.8	8.3	27.4	8.3
Republic Severnaja Osetia - Alania	Hard deciduous	275.4	90.9	299.5	427.4	61.4	112.2	1266.7	362.8
Republic Severnaja Osetia - Alania	Oak	19.2	6.4	28.2	38.6	2.4	7.8	102.5	32.0

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Republic Severnaja Osetia - Alania	Soft deciduous	34.3	8.2	35.2	38.0	6.8	19.6	142.0	45.1
Republic Severnaja Osetia - Alania	Birch	13.5	3.1	11.8	12.1	3.6	10.0	54.1	16.9
Republic Severnaja Osetia - Alania	Other species	0.3	0.0	0.2	0.2	0.0	0.0	0.7	0.2
Republic Severnaja Osetia - Alania	Shrubs	0.0	1.3	1.7	0.5	0.0	0.6	4.1	1.9
Republic Severnaja Osetia - Alania	Total	315.7	101.4	341.2	473.0	69.0	140.7	1441.1	418.2
Chechnja Republic	Coniferous	1.6	0.3	1.1	1.4	0.1	1.9	6.5	1.9
Chechnja Republic	Pine	1.6	0.3	1.1	1.4	0.1	1.9	6.5	1.9
Chechnja Republic	Hard deciduous	461.6	156.1	473.6	735.9	86.5	178.6	2092.3	571.0
Chechnja Republic	Oak	64.1	23.9	98.4	144.2	9.2	29.7	369.5	113.0
Chechnja Republic	Soft deciduous	61.0	13.4	55.9	62.4	9.5	28.8	230.9	70.3
Chechnja Republic	Birch	20.6	4.1	12.2	16.5	4.2	10.2	67.9	17.5
Chechnja Republic	Aspen	2.3	0.5	1.5	2.0	0.3	1.0	7.6	2.0
Chechnja Republic	Other species	3.5	0.9	3.2	4.3	0.1	1.0	13.0	3.6
Chechnja Republic	Shrubs	0.0	1.6	2.0	0.5	0.0	0.9	5.0	2.4
Chechnja Republic	Total	527.7	172.3	535.8	804.5	96.2	211.2	2347.7	649.1
Krasnodar Kray	Coniferous	51.6	23.4	158.5	157.5	23.5	33.8	448.2	179.1
Krasnodar Kray	Pine	36.5	8.3	20.7	28.9	3.0	23.3	120.7	30.9
Krasnodar Kray	Spruce	2.0	0.7	9.1	8.6	1.0	0.5	22.0	9.6
Krasnodar Kray	Fir	12.2	14.0	127.2	117.5	18.6	8.6	298.2	136.2
Krasnodar Kray	Hard deciduous	1514.8	527.9	2454.2	3263.3	525.9	790.7	9076.7	2928.3
Krasnodar Kray	Oak	849.9	295.4	1485.3	1855.1	285.7	463.2	5234.7	1756.3
Krasnodar Kray	Soft deciduous	90.1	16.5	100.5	98.4	18.0	45.8	369.1	124.2
Krasnodar Kray	Birch	23.4	5.7	30.8	17.1	3.8	9.6	90.4	35.8
Krasnodar Kray	Aspen	25.5	5.1	20.4	29.2	3.5	10.8	94.5	25.8
Krasnodar Kray	Other species	68.7	18.1	99.0	96.3	15.2	29.0	326.3	115.2
Krasnodar Kray	Shrubs	0.0	3.9	4.8	1.7	0.0	2.1	12.5	5.6
Krasnodar Kray	Total	1725.2	589.7	2817.0	3617.2	582.5	901.4	10232.9	3352.3
Stavropol Kray	Coniferous	3.2	0.6	1.0	1.4	0.0	0.6	6.9	1.2
Stavropol Kray	Pine	3.2	0.6	1.0	1.4	0.0	0.6	6.9	1.2
Stavropol Kray	Hard deciduous	106.1	33.2	135.6	189.8	19.1	44.6	528.3	159.2
Stavropol Kray	Oak	44.7	15.0	61.8	87.4	6.5	17.0	232.4	70.6
Stavropol Kray	Soft deciduous	5.1	0.7	3.3	5.9	0.6	2.0	17.8	4.3
Stavropol Kray	Birch	0.3	0.0	0.2	0.0	0.0	0.0	0.5	0.2
Stavropol Kray	Other species	2.5	0.7	1.7	2.8	0.1	1.0	8.8	2.1
Stavropol Kray	Shrubs	0.0	1.5	2.0	0.4	0.0	0.5	4.5	2.2
Stavropol Kray	Total	117.0	36.8	143.6	200.3	19.8	48.7	566.2	169.0
Astrakhan oblast	Hard deciduous	16.3	4.9	24.7	33.5	4.5	11.9	95.9	30.8

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Astrakhan oblast	Oak	2.8	0.9	4.0	6.7	0.5	1.4	16.4	4.7
Astrakhan oblast	Soft deciduous	55.5	12.5	33.1	57.8	11.7	30.8	201.5	48.9
Astrakhan oblast	Other species	0.0	0.0	0.5	0.2	0.1	0.2	1.0	0.6
Astrakhan oblast	Shrubs	0.0	9.4	12.0	3.7	0.0	5.0	30.2	14.0
Astrakhan oblast	Total	71.8	26.9	70.4	95.2	16.4	48.0	328.6	94.5
Volgograd oblast	Coniferous	55.5	15.0	22.6	29.2	1.3	19.8	143.4	30.9
Volgograd oblast	Pine	55.5	15.0	22.6	29.2	1.3	19.8	143.4	30.9
Volgograd oblast	Hard deciduous	344.1	139.6	476.9	788.0	64.5	203.3	2016.3	577.6
Volgograd oblast	Oak	290.5	119.0	401.3	656.1	50.2	153.7	1670.6	477.8
Volgograd oblast	Soft deciduous	63.7	10.4	65.1	81.1	16.5	45.8	282.5	88.4
Volgograd oblast	Birch	4.5	0.6	7.4	4.4	1.0	2.6	20.6	8.7
Volgograd oblast	Aspen	12.4	1.7	11.4	15.4	1.8	8.8	51.4	15.5
Volgograd oblast	Other species	2.2	0.5	3.0	1.6	0.2	1.0	8.4	3.5
Volgograd oblast	Shrubs	0.0	11.6	14.3	5.2	0.0	6.6	37.8	16.9
Volgograd oblast	Total	465.4	177.0	581.9	905.2	82.5	276.5	2488.5	717.3
Rostov oblast	Coniferous	74.0	20.8	43.0	45.5	2.4	21.6	207.3	52.4
Rostov oblast	Pine	74.0	20.8	43.0	45.5	2.4	21.6	207.3	52.4
Rostov oblast	Hard deciduous	157.7	56.5	185.3	302.0	19.6	74.5	795.7	221.0
Rostov oblast	Oak	125.4	47.7	150.7	247.6	14.7	54.8	640.9	177.0
Rostov oblast	Soft deciduous	23.5	3.1	17.0	21.9	1.7	8.2	75.3	20.8
Rostov oblast	Birch	2.4	0.3	2.3	1.8	0.1	0.7	7.8	2.6
Rostov oblast	Aspen	1.6	0.3	0.8	1.3	0.0	0.4	4.5	1.0
Rostov oblast	Other species	2.0	0.2	3.2	1.9	0.2	1.2	8.7	3.7
Rostov oblast	Shrubs	0.0	5.1	6.4	2.3	0.0	2.7	16.5	7.5
Rostov oblast	Total	257.2	85.7	254.9	373.6	24.0	108.1	1103.5	305.3
Republic Bashkortostan	Coniferous	1155.1	294.1	1005.0	1261.2	146.6	741.4	4603.3	1345.5
Republic Bashkortostan	Pine	726.6	166.8	537.2	754.2	105.4	688.2	2978.5	844.1
Republic Bashkortostan	Spruce	212.5	77.2	244.0	308.8	22.4	28.0	892.9	261.9
Republic Bashkortostan	Fir	140.4	32.9	102.9	89.0	10.2	12.2	387.8	110.8
Republic Bashkortostan	Larch	75.5	17.2	120.9	109.2	8.6	12.9	344.2	128.6
Republic Bashkortostan	Hard deciduous	439.4	196.2	1153.6	1715.6	291.2	510.7	4306.7	1445.2
Republic Bashkortostan	Oak	359.7	144.3	717.6	1058.2	130.3	270.4	2680.6	864.9
Republic Bashkortostan	Soft deciduous	4063.2	1182.4	6183.0	7283.5	1166.9	2434.8	22313.7	7507.0
Republic Bashkortostan	Birch	1230.6	302.2	1882.8	1534.3	472.3	867.6	6289.7	2371.5
Republic Bashkortostan	Aspen	797.5	184.0	666.4	1075.8	210.7	513.1	3447.4	934.9
Republic Bashkortostan	Other species	2.5	0.9	3.0	1.8	0.1	1.0	9.4	3.4
Republic Bashkortostan	Shrubs	0.0	7.0	8.9	3.1	0.0	3.6	22.6	10.3

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Republic Bashkortostan	Total	5660.2	1680.6	8353.5	10265.3	1604.9	3691.4	31255.7	10311.5
Republic Mariy El	Coniferous	748.0	170.9	486.9	631.3	54.6	333.3	2425.1	636.6
Republic Mariy El	Pine	628.2	126.9	338.1	438.2	46.2	321.3	1899.0	480.5
Republic Mariy El	Spruce	117.1	43.4	146.5	191.8	8.4	11.9	519.2	153.8
Republic Mariy El	Fir	0.5	0.0	0.4	0.4	0.0	0.0	1.4	0.4
Republic Mariy El	Larch	2.2	0.6	1.8	0.9	0.0	0.0	5.5	1.8
Republic Mariy El	Hard deciduous	9.7	2.9	23.0	26.9	5.3	10.3	78.2	28.7
Republic Mariy El	Oak	9.3	2.8	22.8	26.5	5.3	10.3	77.0	28.5
Republic Mariy El	Soft deciduous	912.6	198.1	965.9	794.6	117.7	252.3	3241.2	1102.1
Republic Mariy El	Birch	651.3	136.1	657.9	445.5	80.4	158.1	2129.4	745.3
Republic Mariy El	Aspen	88.1	18.1	71.3	97.6	12.5	37.7	325.2	90.1
Republic Mariy El	Shrubs	0.0	0.1	0.1	0.0	0.0	0.0	0.2	0.1
Republic Mariy El	Total	1670.4	372.0	1475.9	1452.9	177.5	595.9	5744.7	1767.5
Republic Mordovia	Coniferous	285.2	56.1	142.3	185.8	16.5	112.2	798.1	192.1
Republic Mordovia	Pine	278.9	53.9	136.2	179.9	16.4	112.1	777.3	186.0
Republic Mordovia	Spruce	4.8	1.9	5.0	4.9	0.1	0.1	16.8	5.1
Republic Mordovia	Larch	1.6	0.3	1.1	1.0	0.0	0.0	4.0	1.1
Republic Mordovia	Hard deciduous	139.3	44.3	186.4	241.8	21.8	52.2	685.7	213.8
Republic Mordovia	Oak	128.8	41.4	178.9	229.5	21.1	49.8	649.5	205.2
Republic Mordovia	Soft deciduous	522.9	116.0	513.8	484.0	62.8	148.4	1847.8	592.0
Republic Mordovia	Birch	289.9	60.4	290.4	201.0	35.3	72.2	949.3	329.9
Republic Mordovia	Aspen	117.8	25.5	85.7	121.5	15.3	43.9	409.8	107.9
Republic Mordovia	Total	947.4	216.4	842.4	911.6	101.1	312.8	3331.6	997.9
Republic Tatarstan	Coniferous	350.2	73.8	174.3	214.3	14.8	98.9	926.4	218.3
Republic Tatarstan	Pine	288.8	53.4	129.4	173.0	13.8	97.2	755.7	172.4
Republic Tatarstan	Spruce	47.3	17.0	34.2	34.1	1.0	1.7	135.4	35.2
Republic Tatarstan	Fir	3.8	0.7	2.4	1.6	0.0	0.0	8.6	2.4
Republic Tatarstan	Larch	10.3	2.6	8.3	5.5	0.0	0.0	26.7	8.3
Republic Tatarstan	Hard deciduous	309.9	106.4	436.0	616.8	55.7	161.7	1686.5	517.4
Republic Tatarstan	Oak	273.2	93.1	397.9	551.6	53.2	148.6	1517.6	473.3
Republic Tatarstan	Soft deciduous	1110.4	269.4	1175.4	1239.7	135.3	343.2	4273.3	1353.3
Republic Tatarstan	Birch	314.3	69.2	358.4	225.6	49.4	96.2	1113.1	411.7
Republic Tatarstan	Aspen	359.6	75.3	237.7	329.9	35.0	118.5	1156.0	295.6
Republic Tatarstan	Shrubs	0.0	5.4	6.5	2.0	0.0	2.6	16.6	7.5
Republic Tatarstan	Total	1770.5	455.0	1792.3	2072.8	205.7	606.5	6902.8	2096.6
Republic Udmurtia	Coniferous	989.2	291.4	984.5	1146.2	85.5	264.9	3761.7	1116.1
Republic Udmurtia	Pine	366.5	71.0	206.0	268.3	31.0	200.8	1143.7	295.6

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Republic Udmurtia	Spruce	600.6	216.6	761.4	865.8	54.3	63.5	2562.0	803.1
Republic Udmurtia	Fir	16.4	2.6	13.0	8.7	0.2	0.5	41.5	13.3
Republic Udmurtia	Larch	5.7	1.1	4.1	3.3	0.0	0.1	14.5	4.1
Republic Udmurtia	Hard deciduous	4.4	0.8	5.4	6.9	0.1	1.0	18.6	5.8
Republic Udmurtia	Oak	3.1	0.7	3.7	4.8	0.1	0.8	13.2	4.1
Republic Udmurtia	Soft deciduous	1452.8	346.5	1853.3	1506.0	165.7	431.8	5756.0	2075.7
Republic Udmurtia	Birch	1115.0	265.3	1471.5	1058.3	120.7	322.5	4353.3	1636.7
Republic Udmurtia	Aspen	132.9	26.7	101.6	145.1	20.1	51.7	478.1	128.3
Republic Udmurtia	Total	2446.4	638.7	2843.2	2659.0	251.3	697.7	9536.3	3197.7
Chuvash Republic	Coniferous	230.5	48.1	107.2	138.4	11.1	77.7	613.1	141.6
Chuvash Republic	Pine	218.1	44.0	99.1	129.8	11.1	77.7	579.7	133.5
Chuvash Republic	Spruce	9.3	3.7	6.2	7.1	0.0	0.0	26.3	6.2
Chuvash Republic	Larch	3.1	0.4	2.0	1.5	0.0	0.0	7.0	2.0
Chuvash Republic	Hard deciduous	128.8	41.5	204.9	258.4	32.9	88.5	755.0	250.2
Chuvash Republic	Oak	124.1	40.4	200.7	251.0	32.8	87.5	736.4	245.5
Chuvash Republic	Soft deciduous	421.8	98.2	445.1	419.9	50.3	120.5	1555.7	508.4
Chuvash Republic	Birch	213.6	45.6	216.4	145.4	26.0	55.7	702.7	246.5
Chuvash Republic	Aspen	65.9	13.0	43.3	60.4	6.3	21.6	210.6	53.8
Chuvash Republic	Shrubs	0.0	1.0	1.3	0.3	0.0	0.5	3.2	1.5
Chuvash Republic	Total	781.2	188.9	758.5	817.0	94.2	287.2	2927.0	901.6
Perm oblast	Coniferous	3462.7	1211.0	4927.2	6647.6	738.3	1355.7	18342.4	5691.0
Perm oblast	Pine	348.5	77.6	286.6	409.9	66.6	445.9	1635.1	484.9
Perm oblast	Spruce	3051.0	1112.2	4506.7	6127.6	645.2	872.4	16315.2	5049.2
Perm oblast	Fir	55.3	18.2	115.7	90.2	21.2	30.7	331.4	134.3
Perm oblast	Larch	1.5	0.2	1.9	1.6	0.0	0.0	5.1	1.9
Perm oblast	Cedar	6.5	2.7	16.3	18.2	5.2	6.7	55.6	20.5
Perm oblast	Hard deciduous	0.7	0.2	0.6	1.1	0.0	0.2	2.8	0.7
Perm oblast	Oak	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.1
Perm oblast	Soft deciduous	4140.8	959.8	4533.2	3912.6	687.4	1474.8	15708.5	5329.3
Perm oblast	Birch	3209.6	717.1	3638.8	2669.5	574.9	1172.8	11982.6	4280.4
Perm oblast	Aspen	438.3	92.9	299.2	458.9	64.6	170.6	1524.5	386.8
Perm oblast	Total	7604.1	2171.0	9461.0	10561.2	1425.6	2830.7	34053.6	11021.0
Komi-Perm autonomous okrug	Coniferous	1147.0	352.8	1428.6	1841.6	238.7	779.2	5788.0	1811.9
Komi-Perm autonomous okrug	Pine	469.5	112.6	358.4	510.6	86.2	588.0	2125.3	619.5
Komi-Perm autonomous okrug	Spruce	675.5	240.0	1068.0	1329.0	152.6	191.1	3656.1	1190.2
Komi-Perm autonomous okrug	Fir	1.6	0.3	1.4	1.0	0.0	0.0	4.3	1.4
Komi-Perm autonomous okrug	Larch	0.1	0.0	0.4	0.4	0.0	0.1	1.0	0.4

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Komi-Perm autonomous okrug	Cedar	0.3	0.0	0.4	0.5	0.0	0.0	1.3	0.4
Komi-Perm autonomous okrug	Soft deciduous	981.2	221.1	1113.5	862.3	194.4	366.5	3739.0	1318.4
Komi-Perm autonomous okrug	Birch	821.1	184.8	996.1	687.6	166.5	290.8	3146.8	1162.4
Komi-Perm autonomous okrug	Aspen	157.6	35.8	114.4	171.0	27.9	74.9	581.5	152.7
Komi-Perm autonomous okrug	Total	2128.2	574.0	2542.1	2703.9	433.2	1145.7	9527.0	3130.3
Kirov oblast	Coniferous	2810.8	803.9	3175.6	4164.9	470.7	1493.5	12919.5	3914.2
Kirov oblast	Pine	1532.3	316.7	959.7	1274.3	154.0	1122.0	5358.9	1454.7
Kirov oblast	Spruce	1271.7	486.2	2207.7	2884.9	316.6	370.8	7538.0	2451.0
Kirov oblast	Fir	4.5	0.8	6.0	4.0	0.1	0.6	16.0	6.3
Kirov oblast	Larch	2.3	0.2	2.3	1.6	0.0	0.1	6.6	2.3
Kirov oblast	Hard deciduous	5.1	1.4	11.3	14.2	1.3	3.5	36.6	13.1
Kirov oblast	Oak	4.7	1.4	10.9	13.6	1.3	3.2	35.1	12.6
Kirov oblast	Soft deciduous	4500.0	1028.1	4916.9	3867.7	733.1	1600.9	16646.7	5777.2
Kirov oblast	Birch	3462.4	787.6	4022.9	2697.9	581.3	1140.0	12692.1	4653.3
Kirov oblast	Aspen	915.6	209.0	730.8	989.5	134.4	414.5	3393.7	936.9
Kirov oblast	Shrubs	0.0	0.1	0.2	0.1	0.0	0.1	0.6	0.2
Kirov oblast	Total	7315.9	1833.6	8104.1	8046.9	1205.0	3098.0	29603.3	9704.8
Nizhegorogsk oblast	Coniferous	1996.8	422.2	1102.8	1387.9	129.7	813.1	5852.4	1467.0
Nizhegorogsk oblast	Pine	1838.8	365.9	916.0	1157.9	114.4	793.0	5186.0	1267.5
Nizhegorogsk oblast	Spruce	155.6	55.4	184.3	228.1	15.3	20.0	658.5	196.9
Nizhegorogsk oblast	Fir	0.2	0.0	0.1	0.1	0.0	0.0	0.5	0.1
Nizhegorogsk oblast	Larch	2.1	0.9	2.5	1.8	0.0	0.1	7.5	2.5
Nizhegorogsk oblast	Hard deciduous	120.3	38.9	177.9	231.8	18.2	47.6	634.7	202.4
Nizhegorogsk oblast	Oak	117.4	38.3	175.2	227.0	18.2	46.8	622.8	199.4
Nizhegorogsk oblast	Soft deciduous	2426.8	504.6	2307.7	1881.7	288.3	647.0	8056.0	2653.0
Nizhegorogsk oblast	Birch	1859.6	384.1	1831.2	1256.6	222.0	447.4	6000.9	2076.8
Nizhegorogsk oblast	Aspen	401.3	83.7	294.1	419.5	50.2	144.8	1393.5	367.1
Nizhegorogsk oblast	Other species	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.1
Nizhegorogsk oblast	Shrubs	0.0	1.2	1.6	0.6	0.0	0.7	4.1	1.9
Nizhegorogsk oblast	Total	4544.0	966.9	3590.1	3501.9	436.2	1508.3	14547.4	4324.3
Orenburg oblast	Coniferous	69.0	17.3	56.7	69.5	6.8	37.0	256.2	73.5
Orenburg oblast	Pine	68.9	17.3	56.6	69.5	6.8	37.0	256.0	73.4
Orenburg oblast	Larch	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.1
Orenburg oblast	Hard deciduous	239.9	83.4	335.3	477.1	42.4	107.4	1285.4	391.0
Orenburg oblast	Oak	173.0	61.2	260.8	362.0	32.0	72.7	961.7	299.5
Orenburg oblast	Soft deciduous	322.4	79.2	347.5	401.3	57.5	130.5	1338.5	417.0
Orenburg oblast	Birch	72.7	16.7	97.5	63.1	15.3	31.8	297.1	114.8

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Orenburg oblast	Aspen	75.0	15.7	53.1	77.3	9.6	30.5	261.2	68.2
Orenburg oblast	Other species	3.9	0.7	4.7	3.4	0.4	1.5	14.6	5.4
Orenburg oblast	Shrubs	0.0	12.5	15.7	5.4	0.0	7.1	40.7	18.5
Orenburg oblast	Total	635.3	193.0	760.0	956.6	107.1	283.5	2935.4	905.5
Penza oblast	Coniferous	364.5	72.0	173.4	225.6	20.7	137.4	993.5	234.6
Penza oblast	Pine	358.9	70.4	170.1	223.9	20.7	137.4	981.4	231.3
Penza oblast	Spruce	3.9	1.4	1.9	0.9	0.0	0.0	8.1	1.9
Penza oblast	Larch	1.7	0.2	1.3	0.9	0.0	0.0	4.1	1.3
Penza oblast	Hard deciduous	300.7	107.4	450.1	652.7	55.5	135.6	1701.9	521.0
Penza oblast	Oak	294.3	106.0	443.5	642.2	54.7	134.0	1674.6	513.5
Penza oblast	Soft deciduous	636.3	144.5	586.4	603.7	68.2	182.9	2222.0	680.0
Penza oblast	Birch	247.9	51.7	242.6	166.5	29.1	60.3	798.0	275.5
Penza oblast	Aspen	230.3	48.8	160.3	217.5	23.7	81.1	761.7	199.9
Penza oblast	Shrubs	0.0	0.5	0.8	0.1	0.0	0.1	1.5	0.8
Penza oblast	Total	1301.5	324.4	1210.6	1482.2	144.3	456.0	4919.0	1436.3
Samara oblast	Coniferous	118.0	23.7	66.4	82.3	8.0	50.9	349.3	89.2
Samara oblast	Pine	114.4	22.9	63.8	80.9	8.0	50.9	340.9	86.6
Samara oblast	Spruce	0.6	0.2	0.2	0.1	0.0	0.0	1.1	0.2
Samara oblast	Larch	3.0	0.6	2.3	1.3	0.0	0.0	7.3	2.3
Samara oblast	Hard deciduous	298.0	104.7	434.8	623.8	55.6	130.0	1646.9	503.5
Samara oblast	Oak	258.5	91.2	383.5	546.2	48.1	109.0	1436.5	441.5
Samara oblast	Soft deciduous	553.9	143.4	565.0	702.5	60.2	164.3	2189.4	648.8
Samara oblast	Birch	77.0	15.5	80.4	55.2	9.2	21.9	259.2	91.9
Samara oblast	Aspen	168.3	34.7	106.2	154.8	17.5	53.6	535.3	132.9
Samara oblast	Other species	3.6	0.9	4.5	2.5	0.4	1.2	13.1	5.1
Samara oblast	Shrubs	0.0	0.8	1.2	0.3	0.0	0.4	2.8	1.4
Samara oblast	Total	973.5	273.5	1071.8	1411.4	124.3	347.0	4201.4	1247.9
Saratov oblast	Coniferous	69.4	18.5	33.7	39.9	1.9	23.2	186.7	43.6
Saratov oblast	Pine	68.1	18.2	32.4	39.1	1.9	23.2	182.9	42.3
Saratov oblast	Larch	1.3	0.3	1.3	0.8	0.0	0.0	3.7	1.3
Saratov oblast	Hard deciduous	380.9	146.2	578.0	853.2	89.9	206.0	2254.3	687.4
Saratov oblast	Oak	337.7	129.8	529.0	771.2	81.7	177.4	2027.0	624.5
Saratov oblast	Soft deciduous	168.0	41.6	184.6	222.0	25.7	66.6	708.5	219.0
Saratov oblast	Birch	27.8	6.1	34.4	24.4	4.7	10.7	108.0	40.1
Saratov oblast	Aspen	40.6	8.4	34.2	51.2	8.5	24.8	167.8	46.7
Saratov oblast	Other species	0.6	0.1	0.7	0.3	0.0	0.2	2.0	0.8
Saratov oblast	Shrubs	0.0	3.7	4.8	1.6	0.0	1.9	12.0	5.6

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Saratov oblast	Total	618.9	210.2	801.8	1117.1	117.5	297.9	3163.4	956.2
Uljanovsk oblast	Coniferous	524.2	101.3	239.4	323.9	26.4	180.9	1396.2	319.7
Uljanovsk oblast	Pine	521.0	100.3	237.6	322.9	26.4	180.9	1389.0	317.9
Uljanovsk oblast	Spruce	2.1	0.8	1.0	0.4	0.0	0.0	4.4	1.0
Uljanovsk oblast	Larch	1.2	0.2	0.8	0.6	0.0	0.0	2.9	0.8
Uljanovsk oblast	Hard deciduous	157.5	56.8	239.7	349.6	32.5	73.3	909.3	278.8
Uljanovsk oblast	Oak	155.6	56.2	237.7	346.0	32.4	72.8	900.7	276.5
Uljanovsk oblast	Soft deciduous	754.2	181.5	813.9	795.5	76.3	221.7	2843.2	925.5
Uljanovsk oblast	Birch	334.6	79.7	429.9	315.2	33.5	93.4	1286.4	477.3
Uljanovsk oblast	Aspen	227.6	48.8	161.3	223.4	25.6	85.0	771.7	203.0
Uljanovsk oblast	Shrubs	0.0	0.4	1.0	0.3	0.0	0.3	2.0	1.1
Uljanovsk oblast	Total	1435.8	340.1	1293.9	1469.4	135.2	476.3	5150.6	1525.0
Kurgan oblast	Coniferous	494.9	123.9	407.4	475.4	47.9	244.3	1793.6	519.5
Kurgan oblast	Pine	493.0	123.8	406.2	474.6	47.9	244.3	1789.7	518.3
Kurgan oblast	Spruce	0.7	0.0	0.3	0.3	0.0	0.0	1.3	0.3
Kurgan oblast	Larch	1.2	0.1	0.8	0.4	0.0	0.0	2.6	0.8
Kurgan oblast	Hard deciduous	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
Kurgan oblast	Soft deciduous	1567.5	332.7	1521.2	1111.0	175.3	440.7	5148.4	1750.1
Kurgan oblast	Birch	1394.0	295.7	1395.9	956.7	162.5	381.3	4586.2	1597.2
Kurgan oblast	Aspen	171.5	36.9	123.9	152.8	12.7	58.8	556.5	151.2
Kurgan oblast	Shrubs	0.0	7.4	9.3	3.4	0.0	4.3	24.4	11.0
Kurgan oblast	Total	2062.4	464.0	1937.8	1589.8	223.2	689.3	6966.6	2280.5
Sverdlovsk oblast	Coniferous	5194.2	1324.4	5122.9	6703.0	1138.1	4273.7	23756.2	7173.8
Sverdlovsk oblast	Pine	2899.2	622.0	2295.7	3434.3	520.4	3744.3	13515.8	3949.5
Sverdlovsk oblast	Spruce	1444.1	509.5	2213.1	2466.7	389.1	362.8	7385.4	2475.0
Sverdlovsk oblast	Fir	190.8	50.6	158.6	178.3	38.7	42.7	659.6	187.3
Sverdlovsk oblast	Larch	18.2	4.1	27.9	23.7	0.8	2.4	77.1	29.1
Sverdlovsk oblast	Cedar	641.9	138.2	427.6	599.9	189.3	121.5	2118.3	533.0
Sverdlovsk oblast	Hard deciduous	0.0	0.0	0.1	0.2	0.0	0.0	0.3	0.1
Sverdlovsk oblast	Oak	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.1
Sverdlovsk oblast	Soft deciduous	5888.7	1340.4	6743.0	5366.3	1198.6	2436.6	22973.5	8077.2
Sverdlovsk oblast	Birch	4807.9	1091.5	5897.2	4272.0	1063.9	2042.6	19175.1	7033.4
Sverdlovsk oblast	Aspen	934.1	208.5	666.7	890.4	117.9	343.7	3161.3	839.6
Sverdlovsk oblast	Total	11082.9	2664.8	11866.0	12069.4	2336.7	6710.3	46730.1	15251.1
Tjumen oblast	Coniferous	1490.3	422.0	2946.1	2797.5	633.9	2378.9	10668.6	4087.8
Tjumen oblast	Pine	1195.5	267.8	1908.6	1324.8	351.3	2117.8	7165.7	2861.1
Tjumen oblast	Spruce	98.0	41.1	289.4	409.8	107.6	91.5	1037.4	358.3



Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Tjumen oblast	Fir	74.7	21.3	91.7	89.8	20.1	18.9	316.5	105.3
Tjumen oblast	Larch	0.1	0.0	0.8	0.8	0.1	0.1	1.9	0.9
Tjumen oblast	Cedar	122.0	91.8	655.6	972.3	154.8	150.6	2147.2	762.3
Tjumen oblast	Soft deciduous	2587.4	682.7	4088.8	3896.0	1174.5	2296.8	14726.3	5359.9
Tjumen oblast	Birch	2145.1	572.9	3701.8	3280.3	1035.4	1988.6	12723.9	4807.9
Tjumen oblast	Aspen	414.9	100.3	350.5	561.3	135.7	294.7	1857.5	509.1
Tjumen oblast	Shrubs	0.0	8.1	9.7	3.6	0.0	4.3	25.7	11.4
Tjumen oblast	Total	4077.7	1112.8	7044.6	6697.1	1808.4	4680.0	25420.6	9459.1
Cheljabinsk oblast	Coniferous	921.2	199.5	694.4	833.5	88.6	428.7	3166.0	892.5
Cheljabinsk oblast	Pine	675.6	130.7	419.3	546.5	61.1	395.5	2228.5	595.8
Cheljabinsk oblast	Spruce	122.1	41.3	168.1	192.7	19.1	20.4	563.8	182.0
Cheljabinsk oblast	Fir	97.1	22.2	60.0	49.3	5.3	6.8	240.7	64.3
Cheljabinsk oblast	Larch	26.4	5.3	47.0	45.1	3.2	6.1	133.0	50.4
Cheljabinsk oblast	Hard deciduous	17.7	7.9	48.3	70.2	15.0	26.1	185.2	63.2
Cheljabinsk oblast	Oak	5.8	2.1	11.6	15.6	3.8	6.4	45.3	15.3
Cheljabinsk oblast	Soft deciduous	2341.1	494.3	2255.4	2106.0	352.9	774.3	8323.9	2671.0
Cheljabinsk oblast	Birch	1858.3	375.7	1786.9	1471.8	284.0	570.5	6347.2	2100.3
Cheljabinsk oblast	Aspen	280.7	61.0	190.5	289.2	38.3	118.5	978.0	249.4
Cheljabinsk oblast	Shrubs	0.0	3.3	4.1	1.4	0.0	1.7	10.5	4.8
Cheljabinsk oblast	Total	3279.9	704.9	3002.2	3011.2	456.5	1230.8	11685.6	3631.5
Khanti-Mansiisky autonomous okrug	Coniferous	4869.6	1477.4	11368.4	13560.2	5534.5	17691.5	54501.6	20105.4
Khanti-Mansiisky autonomous okrug	Pine	3572.1	790.3	5412.5	5607.1	1329.4	12487.0	29198.4	10806.1
Khanti-Mansiisky autonomous okrug	Spruce	392.4	188.0	1688.6	2313.3	1447.4	1579.1	7608.7	2754.5
Khanti-Mansiisky autonomous okrug	Fir	35.1	19.9	123.3	161.9	44.4	60.5	445.0	160.8
Khanti-Mansiisky autonomous okrug	Larch	191.6	82.2	1076.2	1349.9	197.2	582.3	3479.3	1368.3
Khanti-Mansiisky autonomous okrug	Cedar	678.5	397.1	3067.8	4128.0	2516.1	2982.6	13770.2	5015.7
Khanti-Mansiisky autonomous okrug	Soft deciduous	1571.7	531.1	4011.0	4229.8	2350.3	3712.5	16406.5	6201.1
Khanti-Mansiisky autonomous okrug	Birch	1373.5	448.5	3531.5	3389.6	1950.6	3168.0	13861.7	5383.9
Khanti-Mansiisky autonomous okrug	Aspen	187.3	80.0	472.7	831.3	398.6	539.2	2509.0	808.0
Khanti-Mansiisky autonomous okrug	Other species	1.7	0.4	1.6	1.7	0.9	2.6	8.9	2.9
Khanti-Mansiisky autonomous okrug	Shrubs	0.0	80.6	98.5	36.2	0.0	45.0	260.3	116.5
Khanti-Mansiisky autonomous okrug	Total	6443.0	2089.5	15479.6	17827.9	7885.7	21451.6	71177.3	26426.0
Jamalo-Nenetsky autonomous okrug	Coniferous	3301.4	1269.5	12060.5	14684.8	4524.1	12850.9	48691.2	18558.1
Jamalo-Nenetsky autonomous okrug	Pine	830.5	236.6	2333.5	1547.1	649.2	4996.2	10593.0	4526.7
Jamalo-Nenetsky autonomous okrug	Spruce	260.1	118.8	889.6	1445.8	1042.2	1294.3	5050.8	1720.0
Jamalo-Nenetsky autonomous okrug	Fir	0.7	0.2	1.2	1.5	0.5	0.7	4.8	1.6
Jamalo-Nenetsky autonomous okrug	Larch	1472.8	602.8	7245.4	9466.8	1371.6	4861.2	25020.5	9601.4

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Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Jamalo-Nenetsky autonomous okrug	Cedar	737.3	311.1	1590.9	2223.6	1460.6	1698.6	8022.0	2708.5
Jamalo-Nenetsky autonomous okrug	Soft deciduous	524.2	136.5	730.7	825.5	635.8	1170.7	4023.4	1389.7
Jamalo-Nenetsky autonomous okrug	Birch	507.7	131.9	709.1	790.8	619.6	1137.0	3896.1	1349.8
Jamalo-Nenetsky autonomous okrug	Aspen	3.0	1.0	6.5	16.1	11.4	14.6	52.6	15.8
Jamalo-Nenetsky autonomous okrug	Shrubs	0.0	509.4	622.6	228.3	0.0	283.8	1644.1	736.1
Jamalo-Nenetsky autonomous okrug	Total	3825.6	1915.4	13413.8	15738.6	5159.9	14305.4	54358.6	20683.9
Republic Altai	Coniferous	1213.3	444.4	3794.0	4226.5	846.2	1337.7	11862.0	4582.9
Republic Altai	Pine	47.4	9.5	74.1	47.5	11.6	63.6	253.8	103.0
Republic Altai	Spruce	36.1	13.0	88.6	136.7	25.0	29.4	328.8	107.9
Republic Altai	Fir	184.2	67.2	473.1	341.4	96.2	136.7	1298.8	556.6
Republic Altai	Larch	469.4	131.6	1530.2	1575.9	236.5	500.1	4443.7	1801.2
Republic Altai	Cedar	476.2	223.1	1627.9	2125.0	476.8	607.9	5536.8	2014.1
Republic Altai	Soft deciduous	576.7	155.9	1037.2	830.7	238.1	518.3	3356.9	1316.0
Republic Altai	Birch	426.9	117.7	808.9	592.9	180.8	388.4	2515.6	1018.5
Republic Altai	Aspen	143.3	36.6	220.9	232.3	56.8	127.5	817.3	288.9
Republic Altai	Shrubs	0.0	144.7	177.1	64.9	0.0	80.5	467.2	209.3
Republic Altai	Total	1790.1	744.9	5008.3	5122.1	1084.3	1936.5	15686.1	6108.2
Republic Burjatia	Coniferous	8007.0	2172.4	16345.0	17434.5	2948.8	8655.6	55563.4	20691.9
Republic Burjatia	Pine	2434.4	341.4	1619.1	1776.5	316.2	2105.3	8592.9	2556.1
Republic Burjatia	Spruce	40.4	17.5	131.7	204.1	85.6	101.2	580.5	197.9
Republic Burjatia	Fir	139.6	44.1	199.6	203.3	99.0	113.1	798.7	274.5
Republic Burjatia	Larch	4329.0	1381.5	12350.2	12707.8	1475.3	5127.3	37371.1	14843.7
Republic Burjatia	Cedar	1063.6	387.9	2044.4	2542.8	972.8	1208.7	8220.1	2819.7
Republic Burjatia	Hard deciduous	1.0	0.5	2.3	3.2	0.6	1.6	9.2	3.1
Republic Burjatia	Soft deciduous	1082.6	272.1	1122.6	1313.0	419.6	970.6	5180.5	1636.7
Republic Burjatia	Birch	724.8	169.2	760.4	764.3	288.9	671.0	3378.6	1115.5
Republic Burjatia	Aspen	350.0	101.8	356.4	538.8	128.2	293.9	1769.1	512.4
Republic Burjatia	Shrubs	425.4	1409.5	2409.5	830.6	0.0	829.8	5904.9	2741.4
Republic Burjatia	Total	9516.0	3854.5	19879.4	19581.4	3369.0	10457.6	66657.9	25073.1
Republic Tyva	Coniferous	2326.6	879.1	7446.1	8739.9	2327.2	3818.0	25537.0	9671.5
Republic Tyva	Pine	50.2	10.6	81.2	74.0	16.8	102.7	335.5	127.3
Republic Tyva	Spruce	16.5	7.3	53.4	86.6	27.2	33.2	224.2	74.8
Republic Tyva	Fir	0.2	0.0	0.3	0.5	0.1	0.2	1.3	0.4
Republic Tyva	Larch	1448.4	404.6	3937.8	4292.3	571.3	1591.0	12245.5	4745.6
Republic Tyva	Cedar	811.2	456.6	3373.4	4286.4	1711.8	2091.0	12730.4	4723.3
Republic Tyva	Soft deciduous	209.9	54.6	332.1	299.4	101.4	206.6	1204.0	445.2
Republic Tyva	Birch	180.1	47.9	299.3	260.9	91.9	182.6	1062.7	399.9

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Republic Tyva	Aspen	5.8	1.0	4.6	5.9	1.0	3.1	21.4	6.1
Republic Tyva	Shrubs	0.0	129.5	158.0	57.8	0.0	71.8	417.1	186.7
Republic Tyva	Total	2536.5	1063.2	7936.3	9097.1	2428.6	4096.4	27158.1	10303.4
Khakass Republic	Coniferous	1374.6	475.2	2695.5	2888.4	584.0	895.7	8913.5	3229.0
Khakass Republic	Pine	225.4	31.3	155.0	139.9	24.0	150.1	725.7	222.2
Khakass Republic	Spruce	20.2	7.1	37.1	57.7	10.9	14.0	147.1	46.0
Khakass Republic	Fir	222.3	95.2	470.5	429.7	138.1	207.7	1563.5	595.0
Khakass Republic	Larch	215.3	56.7	449.9	395.9	44.1	107.9	1269.8	506.3
Khakass Republic	Cedar	691.3	284.9	1583.0	1865.2	366.9	416.0	5207.5	1859.5
Khakass Republic	Hard deciduous	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0
Khakass Republic	Soft deciduous	707.9	175.8	934.4	840.9	242.8	562.4	3464.3	1232.2
Khakass Republic	Birch	640.8	159.7	864.8	750.3	220.2	512.1	3147.9	1135.7
Khakass Republic	Aspen	62.6	15.1	63.8	84.5	21.1	45.3	292.3	88.3
Khakass Republic	Other species	0.1	0.0	0.1	0.1	0.0	0.1	0.4	0.1
Khakass Republic	Shrubs	0.0	4.8	6.0	2.1	0.0	2.7	15.6	7.1
Khakass Republic	Total	2082.6	655.8	3636.0	3731.7	826.9	1460.9	12394.0	4468.4
Altai kray	Coniferous	2061.7	498.7	2092.1	2445.2	230.5	902.5	8230.7	2522.3
Altai kray	Pine	1748.4	395.3	1394.2	1835.8	125.3	734.3	6233.3	1725.5
Altai kray	Spruce	13.1	4.5	20.2	24.4	4.1	4.7	70.9	23.3
Altai kray	Fir	178.2	61.6	374.4	292.0	70.0	104.4	1080.4	437.2
Altai kray	Larch	91.3	23.6	216.8	187.5	15.9	35.4	570.4	235.7
Altai kray	Cedar	30.8	13.8	86.6	105.5	15.3	23.7	275.6	100.7
Altai kray	Hard deciduous	0.9	0.1	1.6	2.1	0.0	0.6	5.4	1.8
Altai kray	Soft deciduous	1537.0	386.5	2191.9	1909.2	394.3	1037.5	7456.5	2725.2
Altai kray	Birch	864.5	219.9	1319.2	1095.8	220.8	589.1	4309.2	1621.1
Altai kray	Aspen	648.3	161.6	855.8	792.6	171.4	439.6	3069.3	1083.1
Altai kray	Other species	1.2	0.2	1.5	1.2	0.1	0.7	4.9	1.8
Altai kray	Shrubs	0.0	40.3	49.2	17.6	0.0	22.4	129.5	58.2
Altai kray	Total	3600.8	925.9	4336.4	4375.2	625.0	1963.6	15826.9	5309.3
Krasnoyarsk kray	Coniferous	10730.6	4123.8	31265.1	36762.9	11945.9	23901.4	118729.7	44409.4
Krasnoyarsk kray	Pine	4403.3	941.2	6514.9	6173.7	1578.4	9319.6	28931.2	10716.3
Krasnoyarsk kray	Spruce	960.8	560.6	4284.2	7948.0	2607.1	3498.8	19859.5	6465.9
Krasnoyarsk kray	Fir	1968.6	868.2	4525.5	4426.6	1804.7	2431.4	16024.9	6039.5
Krasnoyarsk kray	Larch	1110.4	511.3	7421.9	6800.9	1349.2	2747.1	19940.7	8925.5
Krasnoyarsk kray	Cedar	2287.5	1242.6	8518.5	11413.8	4606.5	5904.6	33973.4	12262.3
Krasnoyarsk kray	Soft deciduous	8574.5	2284.1	13176.1	12432.4	5001.7	9096.1	50564.9	18315.1
Krasnoyarsk kray	Birch	7044.5	1872.3	11266.1	9908.6	4202.2	7622.0	41915.6	15575.6

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Krasnoyarsk kray	Aspen	1505.3	406.3	1896.7	2506.3	797.9	1465.8	8578.2	2722.4
Krasnoyarsk kray	Other species	12.5	3.1	13.6	9.8	2.5	7.8	49.2	17.5
Krasnoyarsk kray	Shrubs	0.0	349.7	428.0	156.6	0.0	194.7	1129.1	505.9
Krasnoyarsk kray	Total	19317.7	6760.7	44882.8	49361.7	16950.0	33200.0	170473.0	63247.8
Irkutsk oblast	Coniferous	21884.6	6468.4	43049.7	46984.4	9466.8	24638.9	152492.7	55745.3
Irkutsk oblast	Pine	9397.0	1562.9	8627.0	9173.4	1842.0	11225.6	41827.9	13669.8
Irkutsk oblast	Spruce	1302.8	522.6	2971.1	4695.0	1037.6	1277.0	11806.2	3793.2
Irkutsk oblast	Fir	620.4	263.9	1430.5	1322.3	451.9	604.1	4693.2	1807.7
Irkutsk oblast	Larch	7737.4	2786.3	21580.3	21298.6	3121.7	7752.6	64276.8	25617.9
Irkutsk oblast	Cedar	2827.0	1332.8	8440.8	10495.0	3013.5	3779.5	29888.7	10856.7
Irkutsk oblast	Soft deciduous	6585.3	1699.8	8616.9	8774.6	2779.7	5958.9	34415.2	11834.4
Irkutsk oblast	Birch	5081.6	1286.9	7126.7	6624.1	2122.5	4646.1	26888.0	9621.9
Irkutsk oblast	Aspen	1491.4	410.5	1482.1	2139.6	655.6	1306.7	7486.0	2201.5
Irkutsk oblast	Other species	0.4	0.1	1.1	0.9	0.3	0.6	3.5	1.4
Irkutsk oblast	Shrubs	567.2	1518.2	2768.5	945.2	0.0	904.5	6703.6	3130.3
Irkutsk oblast	Total	29037.5	9686.6	54436.2	56705.1	12246.7	31502.9	193615.0	70711.4
Kemerovo oblast	Coniferous	2026.3	723.9	3243.9	2979.6	607.2	961.4	10542.3	3810.6
Kemerovo oblast	Pine	168.7	29.8	105.1	102.3	11.8	60.0	477.7	132.6
Kemerovo oblast	Spruce	70.0	21.6	82.9	123.6	13.5	18.8	330.4	94.5
Kemerovo oblast	Fir	1518.3	561.6	2443.3	2067.9	474.5	759.8	7825.4	2889.6
Kemerovo oblast	Larch	9.9	2.0	16.0	16.1	0.8	3.0	47.8	17.4
Kemerovo oblast	Cedar	259.3	108.9	596.6	669.7	106.7	119.7	1861.0	676.5
Kemerovo oblast	Hard deciduous	0.4	0.1	0.4	0.7	0.0	0.0	1.7	0.4
Kemerovo oblast	Soft deciduous	1984.5	494.9	2500.3	2262.1	560.2	1320.1	9122.1	3196.4
Kemerovo oblast	Birch	903.7	229.1	1304.6	1003.3	298.8	669.4	4408.9	1662.0
Kemerovo oblast	Aspen	1046.0	256.5	1166.0	1220.4	258.5	640.5	4587.8	1499.8
Kemerovo oblast	Other species	0.1	0.0	0.1	0.1	0.0	0.0	0.3	0.1
Kemerovo oblast	Shrubs	0.0	5.3	6.4	2.2	0.0	2.7	16.7	7.5
Kemerovo oblast	Total	4011.4	1224.3	5751.3	5244.7	1167.4	2284.1	19683.1	7015.2
Novosibirsk oblast	Coniferous	983.5	222.6	1208.2	1179.3	220.2	1271.6	5085.5	1782.9
Novosibirsk oblast	Pine	895.8	197.0	1056.1	1028.2	166.2	1227.8	4571.1	1597.1
Novosibirsk oblast	Spruce	7.8	2.3	20.2	21.1	12.6	8.5	72.5	27.4
Novosibirsk oblast	Fir	41.8	12.5	75.3	56.9	9.6	14.0	210.0	83.8
Novosibirsk oblast	Larch	4.2	0.5	8.5	8.2	0.4	1.1	23.0	9.1
Novosibirsk oblast	Cedar	33.9	10.3	48.3	64.8	31.4	20.2	208.8	65.8
Novosibirsk oblast	Hard deciduous	0.3	0.1	1.6	2.7	0.1	0.7	5.6	1.9
Novosibirsk oblast	Soft deciduous	2038.9	546.3	3430.6	3044.0	794.7	1894.7	11749.2	4426.9

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Novosibirsk oblast	Birch	1683.7	461.3	3051.4	2617.2	700.7	1667.6	10181.9	3928.7
Novosibirsk oblast	Aspen	346.3	83.6	372.5	418.3	93.5	224.0	1538.2	490.2
Novosibirsk oblast	Other species	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Novosibirsk oblast	Shrubs	0.0	13.7	17.3	6.4	0.0	7.8	45.2	20.4
Novosibirsk oblast	Total	3022.8	782.8	4657.7	4232.4	1015.1	3174.7	16885.6	6232.1
Omsk oblast	Coniferous	785.9	178.2	1091.6	962.9	303.3	1169.4	4491.4	1650.4
Omsk oblast	Pine	601.1	118.1	793.6	577.2	144.7	1026.5	3261.2	1247.6
Omsk oblast	Spruce	34.3	11.5	72.5	72.1	34.6	28.2	253.2	94.2
Omsk oblast	Fir	20.3	8.2	31.2	48.7	25.0	18.4	151.9	46.1
Omsk oblast	Larch	2.6	0.1	3.8	3.7	0.1	0.5	11.0	4.0
Omsk oblast	Cedar	127.6	40.2	190.5	261.2	98.9	95.9	814.2	258.5
Omsk oblast	Hard deciduous	0.0	0.0	1.2	1.4	0.0	0.1	2.7	1.2
Omsk oblast	Soft deciduous	1461.0	420.3	2881.6	2611.3	820.6	1500.3	9695.2	3727.9
Omsk oblast	Birch	1142.4	336.0	2533.6	2122.3	697.5	1265.8	8097.7	3249.2
Omsk oblast	Aspen	304.7	80.6	330.4	467.2	121.5	229.6	1534.0	458.7
Omsk oblast	Shrubs	0.0	1.2	1.6	0.4	0.0	0.8	4.1	1.9
Omsk oblast	Total	2246.9	599.8	3976.1	3576.0	1124.0	2670.7	14193.5	5381.6
Tomsk oblast	Coniferous	4708.0	1555.0	10115.9	10236.7	3303.7	9059.2	38978.5	14730.7
Tomsk oblast	Pine	2478.0	573.5	4534.8	3196.0	962.5	6427.6	18172.5	7394.6
Tomsk oblast	Spruce	121.3	50.4	377.8	461.2	177.9	179.6	1368.2	503.0
Tomsk oblast	Fir	208.1	95.8	395.5	429.1	184.2	212.3	1525.0	535.7
Tomsk oblast	Larch	5.7	1.5	20.3	21.5	2.3	5.2	56.5	23.1
Tomsk oblast	Cedar	1894.8	833.8	4787.6	6128.8	1976.8	2234.5	17856.3	6274.4
Tomsk oblast	Soft deciduous	3588.1	1150.0	8446.7	7568.2	3076.0	5226.0	29055.0	11459.9
Tomsk oblast	Birch	2903.0	936.6	7343.8	5961.7	2487.0	4264.3	23896.5	9795.6
Tomsk oblast	Aspen	660.7	208.1	1078.2	1584.8	586.4	949.9	5068.0	1634.1
Tomsk oblast	Shrubs	0.0	3.9	4.7	1.7	0.0	2.0	12.2	5.5
Tomsk oblast	Total	8296.0	2708.8	18567.3	17806.6	6379.7	14287.2	68045.7	26196.1
Chita oblast	Coniferous	10539.1	3284.4	26250.7	25178.7	3122.6	10347.9	78723.4	31326.6
Chita oblast	Pine	1716.8	288.9	1723.7	1357.2	323.0	2080.8	7490.5	2652.9
Chita oblast	Spruce	4.6	1.5	9.5	13.1	5.1	5.2	39.0	13.1
Chita oblast	Fir	1.4	0.5	3.8	3.4	1.5	2.1	12.8	5.1
Chita oblast	Larch	8476.8	2835.8	23447.5	22520.2	2374.3	7749.5	67404.2	27259.6
Chita oblast	Cedar	339.3	157.7	1066.2	1284.7	418.7	510.3	3776.9	1395.9
Chita oblast	Hard deciduous	0.2	0.1	0.2	0.3	0.0	0.1	0.9	0.2
Chita oblast	Soft deciduous	3826.9	912.9	3729.5	3688.0	1087.3	3017.2	16261.9	5262.6
Chita oblast	Birch	3430.4	816.4	3465.2	3300.4	1018.9	2763.6	14795.0	4876.3

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Chita oblast	Aspen	391.7	95.7	260.5	382.8	67.4	249.5	1447.7	380.5
Chita oblast	Other species	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
Chita oblast	Shrubs	379.0	1440.9	2372.6	822.7	0.0	842.4	5857.5	2709.6
Chita oblast	Total	14745.2	5638.3	32353.0	29689.6	4210.0	14207.6	100843.7	39299.0
Aginsky Burjatsky autonomous okrug	Coniferous	155.1	49.6	433.1	398.8	41.5	125.0	1203.1	495.6
Aginsky Burjatsky autonomous okrug	Pine	30.6	5.4	30.1	23.9	5.2	34.5	129.7	45.5
Aginsky Burjatsky autonomous okrug	Larch	124.0	44.0	401.3	373.2	35.8	89.9	1068.2	448.0
Aginsky Burjatsky autonomous okrug	Cedar	0.6	0.2	1.6	1.6	0.5	0.6	5.1	2.0
Aginsky Burjatsky autonomous okrug	Soft deciduous	130.4	32.3	161.5	157.3	52.3	119.1	652.9	224.8
Aginsky Burjatsky autonomous okrug	Birch	110.3	27.6	148.4	136.5	48.5	105.7	577.0	205.2
Aginsky Burjatsky autonomous okrug	Aspen	20.1	4.7	13.2	20.9	3.7	13.4	75.9	19.7
Aginsky Burjatsky autonomous okrug	Shrubs	0.0	4.0	5.0	1.9	0.0	2.2	13.1	5.9
Aginsky Burjatsky autonomous okrug	Total	285.5	85.8	599.6	558.0	93.8	246.3	1869.0	726.3
Taimir autonomous okrug	Coniferous	89.2	42.6	482.2	650.0	443.7	862.5	2570.2	960.3
Taimir autonomous okrug	Spruce	26.2	15.4	77.0	201.5	94.7	155.0	569.8	167.4
Taimir autonomous okrug	Larch	63.0	27.2	405.2	448.5	349.0	707.5	2000.4	792.9
Taimir autonomous okrug	Soft deciduous	11.5	3.7	24.1	21.3	25.1	45.2	130.9	49.7
Taimir autonomous okrug	Birch	11.5	3.7	24.1	21.3	25.1	45.2	130.9	49.7
Taimir autonomous okrug	Shrubs	0.0	867.4	1060.8	389.1	0.0	483.3	2800.6	1254.1
Taimir autonomous okrug	Total	100.7	913.7	1567.1	1060.4	468.8	1391.0	5501.6	2264.1
Ust-Ordynsky Burjatsky autonomous okrug	Coniferous	468.6	97.5	680.8	575.4	108.3	399.9	2330.5	873.3
Ust-Ordynsky Burjatsky autonomous okrug	Pine	369.3	61.7	377.5	263.7	56.8	315.1	1444.1	520.6
Ust-Ordynsky Burjatsky autonomous okrug	Spruce	15.8	5.4	25.4	39.9	6.2	8.0	100.8	30.5
Ust-Ordynsky Burjatsky autonomous okrug	Fir	0.8	0.3	1.1	1.2	0.1	0.3	3.8	1.3
Ust-Ordynsky Burjatsky autonomous okrug	Larch	76.5	27.4	261.5	253.8	42.5	72.5	734.2	303.3
Ust-Ordynsky Burjatsky autonomous okrug	Cedar	6.2	2.6	15.3	16.7	2.8	3.9	47.6	17.7
Ust-Ordynsky Burjatsky autonomous okrug	Soft deciduous	435.1	115.0	677.9	659.2	149.9	365.3	2402.3	869.0
Ust-Ordynsky Burjatsky autonomous okrug	Birch	387.5	103.2	631.2	591.8	131.1	329.4	2174.1	802.3
Ust-Ordynsky Burjatsky autonomous okrug	Aspen	47.6	11.8	46.7	67.4	18.8	35.9	228.2	66.7
Ust-Ordynsky Burjatsky autonomous okrug	Shrubs	0.0	9.7	11.8	4.2	0.0	5.3	31.1	13.9
Ust-Ordynsky Burjatsky autonomous okrug	Total	903.6	222.2	1370.5	1238.8	258.2	770.5	4763.9	1756.2
Evenkia autonomous okrug	Coniferous	11431.4	4444.7	44349.1	39225.7	7846.1	20500.3	127797.3	54903.1
Evenkia autonomous okrug	Pine	1125.8	244.7	1536.8	1584.7	334.8	2853.4	7680.2	2778.6
Evenkia autonomous okrug	Spruce	135.5	96.3	912.1	1503.0	706.1	863.6	4216.6	1469.4
Evenkia autonomous okrug	Fir	3.5	1.7	11.0	11.1	8.5	10.4	46.2	17.7
Evenkia autonomous okrug	Larch	10014.5	3960.4	40723.3	34474.3	5782.2	15592.0	110546.7	48694.8
Evenkia autonomous okrug	Cedar	152.1	141.6	1165.9	1652.6	1014.5	1180.9	5307.6	1942.6

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Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Evenkia autonomous okrug	Soft deciduous	865.9	241.4	1481.8	1627.6	1176.8	2116.8	7510.3	2681.6
Evenkia autonomous okrug	Birch	844.0	233.2	1436.1	1556.8	1141.6	2053.3	7265.0	2599.9
Evenkia autonomous okrug	Aspen	21.9	8.2	45.7	70.8	35.2	63.5	245.3	81.7
Evenkia autonomous okrug	Shrubs	3.8	2893.4	3545.6	1300.6	0.0	1612.9	9356.3	4190.8
Evenkia autonomous okrug	Total	12301.1	7579.5	49376.5	42153.9	9022.9	24230.0	144663.9	61775.4
Republic Sakha (Jakutia)	Coniferous	33227.5	9716.4	69272.6	72336.9	13091.5	48532.9	246177.9	92613.2
Republic Sakha (Jakutia)	Pine	3076.2	679.0	4933.4	4246.8	1145.4	8924.0	23004.7	8846.6
Republic Sakha (Jakutia)	Spruce	51.5	27.1	252.2	377.6	213.0	226.4	1147.9	406.7
Republic Sakha (Jakutia)	Fir	5.9	2.3	13.5	15.3	7.6	9.0	53.6	19.4
Republic Sakha (Jakutia)	Larch	29995.2	8957.1	63701.5	67224.3	11527.3	39132.4	220537.8	82812.7
Republic Sakha (Jakutia)	Cedar	98.7	51.0	372.0	472.8	198.2	241.1	1433.9	527.9
Republic Sakha (Jakutia)	Soft deciduous	1030.6	250.4	1094.0	1078.1	429.9	1160.0	5043.0	1687.0
Republic Sakha (Jakutia)	Birch	943.4	227.3	1013.3	950.4	388.1	1075.3	4597.7	1559.9
Republic Sakha (Jakutia)	Aspen	43.8	12.3	49.6	79.7	30.5	54.8	270.7	80.7
Republic Sakha (Jakutia)	Shrubs	1772.2	9962.5	15032.6	5294.3	0.0	5734.8	37796.5	17326.5
Republic Sakha (Jakutia)	Total	36030.3	19929.4	85399.2	78709.3	13521.4	55427.8	289017.4	111626.7
Primorsky Krai	Coniferous	2829.2	1057.6	7648.2	8842.9	2258.9	2928.2	25564.9	9497.2
Primorsky Krai	Pine	2.2	0.0	2.1	1.4	0.1	2.3	8.0	3.1
Primorsky Krai	Spruce	958.8	378.7	2747.0	3589.8	989.0	1138.7	9802.0	3499.2
Primorsky Krai	Fir	195.0	70.7	393.6	343.9	119.3	185.7	1308.3	503.7
Primorsky Krai	Larch	949.4	247.4	1755.8	1957.4	189.9	478.7	5578.6	2004.3
Primorsky Krai	Cedar	723.9	360.8	2749.7	2950.4	960.5	1122.8	8868.0	3487.0
Primorsky Krai	Hard deciduous	1535.5	675.4	3762.4	4956.2	1740.4	2830.8	15500.7	5416.8
Primorsky Krai	Oak	1201.8	534.2	2875.1	3909.6	1321.9	2238.9	12081.6	4167.2
Primorsky Krai	Soft deciduous	1997.5	568.5	2974.1	3415.1	639.0	1407.5	11001.6	3728.8
Primorsky Krai	Birch	1100.1	261.8	1348.5	1227.8	353.9	781.5	5073.6	1767.3
Primorsky Krai	Aspen	166.4	41.6	191.2	230.2	60.1	136.5	826.0	263.8
Primorsky Krai	Other species	4.4	0.8	3.6	5.2	0.2	1.5	15.8	4.3
Primorsky Krai	Shrubs	11.2	11.3	32.3	10.2	0.0	7.5	72.5	35.3
Primorsky Krai	Total	6377.8	2313.5	14420.6	17229.6	4638.4	7175.5	52155.5	18682.3
Khabarovsk Krai	Coniferous	17615.4	5947.2	41750.0	52473.8	8546.1	18346.4	144678.9	51652.4
Khabarovsk Krai	Pine	322.5	84.1	654.0	442.6	126.1	1071.0	2700.4	1120.2
Khabarovsk Krai	Spruce	1535.6	774.8	6423.2	9542.9	3082.5	3456.1	24815.0	8730.4
Khabarovsk Krai	Fir	277.7	112.6	449.5	420.3	138.4	227.5	1626.1	582.0
Khabarovsk Krai	Larch	15343.7	4900.2	33633.1	41391.1	4968.2	13319.7	113556.0	40451.4
Khabarovsk Krai	Cedar	135.9	75.6	590.1	677.0	230.8	272.1	1981.4	768.2
Khabarovsk Krai	Hard deciduous	271.4	134.0	922.2	1206.7	521.4	790.3	3845.9	1394.7

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Khabarovsk Kray	Oak	110.6	57.6	399.8	541.3	246.9	381.6	1737.8	626.5
Khabarovsk Kray	Soft deciduous	4554.1	1186.8	5334.9	5461.0	1209.6	3325.2	21071.5	7027.9
Khabarovsk Kray	Birch	3113.5	766.6	3366.7	2956.3	820.4	2349.0	13372.5	4552.4
Khabarovsk Kray	Aspen	577.6	149.7	577.8	637.4	139.3	392.7	2474.5	776.7
Khabarovsk Kray	Other species	3.8	0.9	6.2	5.6	1.4	4.1	22.0	8.3
Khabarovsk Kray	Shrubs	1409.4	1634.9	4265.0	1389.2	0.0	1056.4	9755.0	4687.6
Khabarovsk Kray	Total	23854.0	8903.7	52278.3	60536.3	10278.5	23522.4	179373.3	64770.8
Amur oblast	Coniferous	6333.4	2114.8	16222.1	16847.9	2527.3	7551.4	51596.9	20000.9
Amur oblast	Pine	413.2	68.4	408.8	240.5	62.4	474.9	1668.2	617.5
Amur oblast	Spruce	132.4	55.9	415.7	614.3	186.3	214.6	1619.4	557.4
Amur oblast	Fir	24.2	7.7	39.2	34.9	11.6	16.7	134.3	49.4
Amur oblast	Larch	5762.3	1981.9	15349.5	15946.4	2263.3	6841.1	48144.4	18764.9
Amur oblast	Cedar	1.3	0.9	8.9	11.8	3.6	4.0	30.6	11.6
Amur oblast	Hard deciduous	510.6	233.9	601.9	1165.3	98.5	297.1	2907.2	750.3
Amur oblast	Oak	490.7	225.6	560.8	1105.4	88.4	274.6	2745.5	697.2
Amur oblast	Soft deciduous	4194.3	1038.4	4955.3	4493.9	1292.6	3367.8	19342.4	6690.2
Amur oblast	Birch	3981.4	983.1	4711.8	4188.8	1237.5	3230.1	18332.8	6375.1
Amur oblast	Aspen	136.5	34.0	139.0	168.5	39.4	98.6	616.0	190.3
Amur oblast	Other species	0.4	0.1	0.3	0.4	0.1	0.2	1.5	0.4
Amur oblast	Shrubs	295.3	844.7	1507.9	516.5	0.0	501.3	3665.7	1708.4
Amur oblast	Total	11334.0	4231.9	23287.5	23024.0	3918.6	11717.8	77513.8	29150.2
Kamchatka oblast	Coniferous	176.3	66.8	680.0	737.6	198.1	289.8	2148.6	855.4
Kamchatka oblast	Pine	9.9	1.1	4.3	3.4	0.3	3.9	23.0	6.0
Kamchatka oblast	Spruce	25.0	18.7	185.0	309.4	102.8	114.8	755.7	261.8
Kamchatka oblast	Larch	141.4	47.0	490.7	424.8	95.0	171.0	1370.0	587.6
Kamchatka oblast	Hard deciduous	290.7	247.8	1992.2	3036.6	1352.1	1831.3	8750.6	3130.4
Kamchatka oblast	Soft deciduous	434.8	121.0	766.0	701.3	346.8	697.9	3067.9	1149.2
Kamchatka oblast	Birch	240.3	75.7	571.6	466.5	249.8	480.3	2084.1	838.7
Kamchatka oblast	Aspen	8.0	2.6	11.5	15.9	6.3	11.7	56.0	18.1
Kamchatka oblast	Other species	570.7	134.7	378.9	464.0	176.9	568.9	2294.1	659.5
Kamchatka oblast	Shrubs	423.0	981.3	1879.5	636.8	0.0	590.6	4511.2	2115.7
Kamchatka oblast	Total	1895.5	1551.6	5696.5	5576.3	2074.0	3978.4	20772.4	7910.1
Magadan oblast	Coniferous	1173.9	366.5	2644.0	3320.4	1175.3	3370.4	12050.5	4344.8
Magadan oblast	Larch	1173.9	366.5	2644.0	3320.4	1175.3	3370.4	12050.5	4344.8
Magadan oblast	Hard deciduous	0.5	0.3	1.5	2.4	1.3	1.7	7.7	2.6
Magadan oblast	Soft deciduous	210.0	50.9	173.8	222.0	51.0	118.5	826.2	236.5
Magadan oblast	Birch	7.1	2.0	13.9	9.5	4.2	9.3	46.0	18.9



Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Magadan oblast	Shrubs	1717.6	3091.0	6539.6	2185.7	0.0	1899.4	15433.3	7299.4
Magadan oblast	Total	3101.9	3508.8	9358.8	5730.5	1227.6	5390.1	28317.7	11883.1
Sakhalinskaja oblast	Coniferous	2306.4	837.7	4332.8	5247.9	1009.7	1732.7	15467.2	5328.8
Sakhalinskaja oblast	Pine	48.7	5.2	15.9	17.4	1.7	18.3	107.3	23.7
Sakhalinskaja oblast	Spruce	224.9	115.9	936.3	1287.8	516.4	516.8	3598.0	1297.9
Sakhalinskaja oblast	Fir	1141.8	439.5	1694.3	1770.3	268.6	437.2	5751.6	1949.8
Sakhalinskaja oblast	Larch	891.0	277.1	1686.3	2172.5	223.0	760.4	6010.3	2057.4
Sakhalinskaja oblast	Hard deciduous	232.7	117.0	591.8	910.1	221.2	406.5	2479.4	820.8
Sakhalinskaja oblast	Oak	16.4	7.2	34.2	51.8	10.9	16.2	136.7	44.0
Sakhalinskaja oblast	Soft deciduous	263.8	68.4	319.2	286.3	78.0	234.5	1250.2	436.4
Sakhalinskaja oblast	Birch	114.6	29.0	147.4	119.8	42.6	108.4	561.8	203.5
Sakhalinskaja oblast	Aspen	16.6	4.4	20.7	18.1	3.5	15.4	78.8	27.9
Sakhalinskaja oblast	Other species	0.3	0.0	0.2	0.3	0.4	0.8	2.0	0.6
Sakhalinskaja oblast	Shrubs	73.2	74.2	208.9	67.0	0.0	49.0	472.3	228.5
Sakhalinskaja oblast	Total	2876.4	1097.4	5453.0	6511.6	1309.3	2423.4	19671.1	6815.2
Evreiskaja autonomous oblast	Coniferous	307.1	119.2	633.3	760.2	146.7	221.3	2187.8	765.8
Evreiskaja autonomous oblast	Pine	5.0	0.6	2.1	1.7	0.1	1.7	11.3	2.8
Evreiskaja autonomous oblast	Spruce	74.9	27.0	145.5	220.0	43.7	54.9	566.0	180.6
Evreiskaja autonomous oblast	Fir	51.1	21.0	83.7	77.0	20.1	33.2	286.1	103.0
Evreiskaja autonomous oblast	Larch	113.0	39.0	192.4	214.2	19.5	56.9	635.1	221.0
Evreiskaja autonomous oblast	Cedar	63.1	31.6	209.5	247.4	63.3	74.5	689.4	258.3
Evreiskaja autonomous oblast	Hard deciduous	191.6	87.4	459.0	684.4	230.0	394.3	2046.7	685.7
Evreiskaja autonomous oblast	Oak	181.4	84.0	435.7	653.9	215.8	374.9	1945.6	650.4
Evreiskaja autonomous oblast	Soft deciduous	650.3	185.8	965.4	1005.3	180.7	443.3	3430.8	1196.9
Evreiskaja autonomous oblast	Birch	399.5	100.1	489.7	381.9	95.3	251.7	1718.1	619.0
Evreiskaja autonomous oblast	Aspen	79.3	21.2	106.0	118.1	31.7	73.2	429.5	144.8
Evreiskaja autonomous oblast	Other species	0.1	0.0	0.2	0.4	0.0	0.1	0.8	0.2
Evreiskaja autonomous oblast	Total	1149.1	392.4	2057.9	2450.2	557.3	1059.1	7666.1	2648.7
Korjasky autonomous okrug	Coniferous	75.6	19.0	203.7	242.5	59.6	215.0	815.4	307.6
Korjasky autonomous okrug	Larch	75.6	19.0	203.7	242.5	59.6	215.0	815.4	307.6
Korjasky autonomous okrug	Hard deciduous	149.0	120.5	957.3	1440.9	585.1	817.0	4070.0	1459.6
Korjasky autonomous okrug	Soft deciduous	321.7	80.0	260.4	343.4	126.1	280.0	1411.5	410.2
Korjasky autonomous okrug	Birch	151.4	34.9	153.8	167.3	56.0	129.3	692.9	222.3
Korjasky autonomous okrug	Shrubs	1376.8	2049.6	4718.7	1560.4	0.0	1284.4	10989.9	5232.5
Korjasky autonomous okrug	Total	1923.2	2269.1	6140.2	3587.2	770.9	2596.3	17286.9	7410.0
Chukotsky autonomous okrug	Coniferous	305.8	95.0	595.2	789.9	279.1	856.4	2921.3	1021.5
Chukotsky autonomous okrug	Larch	305.8	95.0	595.2	789.9	279.1	856.4	2921.3	1021.5

Net Primary Production of Russian forested areas by dominant species, fractions by administrative regions, 10<sup>3</sup>t C

Administrative units	Species, group of species	Stem	Branches	Foliage	Roots	Understory	Green forest floor	Total	of which green parts
Chukotsky autonomous okrug	Soft deciduous	106.3	24.6	63.2	88.8	12.5	37.5	332.9	82.0
Chukotsky autonomous okrug	Birch	0.3	0.0	0.5	0.2	0.0	0.2	1.2	0.6
Chukotsky autonomous okrug	Shrubs	535.8	1050.8	2145.7	720.8	0.0	640.7	5093.8	2402.0
Chukotsky autonomous okrug	Total	947.9	1170.4	2804.2	1599.5	291.6	1534.6	8348.1	3505.5
Russian Federation	Coniferous	210058.2	66656.7	438417.7	502357.0	104343.9	283873.5	1605707.0	583270.3
Russian Federation	Pine	65405.9	13660.9	66640.0	74357.2	14794.2	105812.7	340670.9	113403.3
Russian Federation	Spruce	32090.1	13455.9	72282.9	108794.6	26861.8	34344.9	287830.2	94079.4
Russian Federation	Fir	7508.1	2966.8	14295.6	13436.1	4225.6	5875.9	48308.1	17913.6
Russian Federation	Larch	90832.4	29871.1	241937.5	250519.5	37848.5	112948.9	763958.0	298471.6
Russian Federation	Cedar	14220.8	6701.7	43260.3	55247.0	20612.8	24889.8	164932.4	59400.1
Russian Federation	Hard deciduous	11389.9	4480.9	21532.8	30518.4	6847.6	11602.8	86372.4	28228.2
Russian Federation	Oak	7618.4	2876.1	13022.5	18155.3	3150.8	6111.6	50934.7	16412.4
Russian Federation	Soft deciduous	119694.0	29445.0	154586.6	139909.6	39221.3	80908.0	563764.6	198716.2
Russian Federation	Birch	90881.6	22095.7	122124.5	97366.4	31291.1	63055.2	426814.6	156733.9
Russian Federation	Aspen	19142.3	4634.5	18779.9	25546.8	5844.7	12817.6	86765.9	25660.4
Russian Federation	Other species	696.7	165.3	541.5	615.2	200.2	627.3	2846.3	852.5
Russian Federation	Shrubs	8989.8	29395.1	50405.1	17366.4	0.0	17304.9	123461.3	57327.1
Russian Federation	Total	350828.6	130143.0	665483.8	690766.6	150613.0	394316.6	2382151.6	868394.3