

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Belgorod oblast	Coniferous	4.4	34.3	31.9	0.3	0.0	0.0	70.9	324
Belgorod oblast	Pine	4.4	34.1	31.9	0.3	0.0	0.0	70.7	325
Belgorod oblast	Larch	0.0	0.2	0.0	0.0	0.0	0.0	0.2	325
Belgorod oblast	Hard deciduous	26.2	86.9	1196.2	84.4	33.7	2.1	1429.6	724
Belgorod oblast	Oak	21.5	67.5	1133.2	83.7	32.6	1.8	1340.5	730
Belgorod oblast	Soft deciduous	1.9	5.4	35.4	9.6	2.7	0.6	55.7	429
Belgorod oblast	Birch	0.4	0.5	5.9	0.2	0.0	0.0	7.0	344
Belgorod oblast	Aspen	1.4	3.3	12.6	9.0	1.9	0.0	28.2	486
Belgorod oblast	Other species	0.0	0.0	0.1	0.0	0.0	0.0	0.1	73
Belgorod oblast	Total	32.5	126.7	1263.6	94.3	36.4	2.8	1556.3	669
Brjansk oblast	Coniferous	127.6	415.4	929.0	278.3	85.2	4.0	1839.6	309
Brjansk oblast	Pine	69.3	308.3	839.0	234.2	60.0	4.0	1514.8	346
Brjansk oblast	Spruce	58.3	106.5	90.1	44.1	25.2	0.0	324.2	207
Brjansk oblast	Larch	0.0	0.6	0.0	0.0	0.0	0.0	0.6	167
Brjansk oblast	Hard deciduous	11.6	32.8	263.9	69.8	77.9	24.4	480.4	671
Brjansk oblast	Oak	11.2	31.7	257.6	68.8	76.6	22.6	468.5	677
Brjansk oblast	Soft deciduous	38.3	97.0	1069.4	434.5	345.7	51.0	2036.0	432
Brjansk oblast	Birch	22.4	60.1	878.6	245.7	114.6	4.0	1325.5	454
Brjansk oblast	Aspen	12.9	27.5	71.7	148.0	191.6	42.8	494.5	451
Brjansk oblast	Shrubs	14.4	0.0	0.0	0.0	0.0	0.0	14.4	156
Brjansk oblast	Total	191.9	545.1	2262.4	782.6	508.7	79.5	4370.3	381
Vladimir oblast	Coniferous	394.2	615.3	1206.1	558.6	141.7	0.4	2916.3	317
Vladimir oblast	Pine	280.2	532.8	1096.6	446.1	100.6	0.4	2456.7	319
Vladimir oblast	Spruce	113.9	82.3	108.9	112.4	41.2	0.0	458.7	303
Vladimir oblast	Larch	0.0	0.3	0.6	0.0	0.0	0.0	0.9	184
Vladimir oblast	Hard deciduous	0.1	0.0	17.8	9.7	22.7	16.1	66.3	742
Vladimir oblast	Oak	0.1	0.0	17.8	9.7	22.7	16.1	66.3	745
Vladimir oblast	Soft deciduous	104.7	183.0	1098.2	477.0	419.7	48.3	2331.1	420
Vladimir oblast	Birch	87.2	159.2	993.9	373.9	267.8	9.1	1891.1	427
Vladimir oblast	Aspen	15.2	18.5	49.9	79.6	134.7	39.0	336.9	419
Vladimir oblast	Total	499.0	798.4	2322.1	1045.2	584.1	64.8	5313.7	358
Voronezh oblast	Coniferous	28.5	186.1	203.3	19.9	12.4	0.1	450.3	353
Voronezh oblast	Pine	28.5	186.1	203.3	19.9	12.4	0.1	450.3	353
Voronezh oblast	Hard deciduous	49.8	128.4	1113.4	146.1	147.2	33.3	1618.0	708
Voronezh oblast	Oak	41.4	105.2	1026.9	142.0	144.0	33.0	1492.5	741
Voronezh oblast	Soft deciduous	26.8	47.3	125.0	30.3	39.7	17.1	286.2	391
Voronezh oblast	Birch	2.7	5.1	19.8	3.5	2.9	0.1	34.0	382

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Voronezh oblast	Aspen	8.0	22.1	40.7	15.9	22.5	2.7	111.9	431
Voronezh oblast	Other species	0.0	0.0	1.3	0.0	0.1	0.1	1.5	221
Voronezh oblast	Shrubs	0.0	0.0	0.0	0.0	0.2	8.4	8.6	158
Voronezh oblast	Total	105.1	361.8	1443.0	196.3	199.6	59.0	2364.8	543
Ivanovo oblast	Coniferous	88.5	384.5	592.0	354.3	109.4	0.6	1529.2	294
Ivanovo oblast	Pine	18.3	237.8	443.5	189.6	61.8	0.5	951.5	362
Ivanovo oblast	Spruce	69.9	146.0	148.5	164.7	47.7	0.1	576.8	225
Ivanovo oblast	Larch	0.2	0.7	0.0	0.0	0.0	0.0	0.9	162
Ivanovo oblast	Hard deciduous	0.0	0.0	2.4	1.7	11.8	13.6	29.5	881
Ivanovo oblast	Oak	0.0	0.0	2.4	1.7	11.8	13.6	29.5	885
Ivanovo oblast	Soft deciduous	43.4	115.5	963.6	555.4	512.0	56.1	2246.0	468
Ivanovo oblast	Birch	35.3	95.6	876.9	447.2	317.9	9.5	1782.2	479
Ivanovo oblast	Aspen	6.9	11.8	56.2	95.5	174.8	41.6	386.8	454
Ivanovo oblast	Shrubs	0.0	0.2	0.0	0.0	0.0	0.0	0.2	117
Ivanovo oblast	Total	131.9	500.2	1558.0	911.3	633.2	70.3	3804.9	380
Kaluga oblast	Coniferous	94.6	333.9	516.3	230.7	89.3	0.6	1265.4	242
Kaluga oblast	Pine	16.2	95.7	342.0	73.8	25.4	0.6	553.7	320
Kaluga oblast	Spruce	78.3	237.7	172.6	156.9	64.0	0.0	709.5	204
Kaluga oblast	Larch	0.0	0.4	1.7	0.0	0.0	0.0	2.2	254
Kaluga oblast	Hard deciduous	0.6	14.1	125.0	54.7	97.0	40.6	332.0	624
Kaluga oblast	Oak	0.3	9.7	100.2	52.5	93.0	38.0	293.7	626
Kaluga oblast	Soft deciduous	20.3	69.3	1302.7	655.7	941.8	310.8	3300.6	434
Kaluga oblast	Birch	10.9	34.8	1046.4	451.0	547.5	90.6	2181.3	450
Kaluga oblast	Aspen	9.0	29.3	125.2	186.4	381.7	217.1	948.6	405
Kaluga oblast	Total	115.4	417.3	1944.0	941.1	1128.2	352.0	4898.0	367
Kostroma oblast	Coniferous	618.6	2592.2	1896.9	1194.7	1184.0	348.1	7834.4	365
Kostroma oblast	Pine	146.1	1210.5	1526.0	651.8	330.1	89.9	3954.3	358
Kostroma oblast	Spruce	472.5	1380.9	370.3	542.8	853.7	258.0	3878.2	372
Kostroma oblast	Larch	0.0	0.8	0.6	0.0	0.2	0.2	1.8	275
Kostroma oblast	Hard deciduous	0.0	0.0	0.3	0.0	1.5	0.9	2.8	728
Kostroma oblast	Oak	0.0	0.0	0.3	0.0	1.5	0.9	2.8	733
Kostroma oblast	Soft deciduous	283.7	818.0	4227.9	3019.4	2322.3	561.9	11233.2	488
Kostroma oblast	Birch	189.9	534.1	3652.7	2613.5	1900.2	226.3	9116.7	496
Kostroma oblast	Aspen	91.1	272.2	524.6	384.9	406.3	331.4	2010.5	460
Kostroma oblast	Total	902.3	3410.2	6125.1	4214.0	3507.8	910.9	19070.3	428
Kursk oblast	Coniferous	11.6	32.6	49.8	0.4	0.0	0.0	94.3	328
Kursk oblast	Pine	10.9	31.4	49.2	0.4	0.0	0.0	91.9	346

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Kursk oblast	Spruce	0.6	1.2	0.3	0.0	0.0	0.0	2.2	104
Kursk oblast	Larch	0.0	0.0	0.2	0.0	0.0	0.0	0.2	209
Kursk oblast	Hard deciduous	8.9	107.2	841.5	118.9	178.9	11.0	1266.4	801
Kursk oblast	Oak	7.1	82.2	714.2	112.7	177.7	11.0	1105.0	813
Kursk oblast	Soft deciduous	1.1	5.7	101.6	42.9	62.3	14.2	227.8	458
Kursk oblast	Birch	0.1	0.6	45.2	14.1	8.9	0.4	69.3	478
Kursk oblast	Aspen	0.4	3.0	6.7	24.8	44.5	9.7	89.1	504
Kursk oblast	Other species	0.0	0.0	0.1	0.1	0.0	0.0	0.2	76
Kursk oblast	Shrubs	0.0	0.0	0.0	0.0	1.3	0.0	1.3	114
Kursk oblast	Total	21.5	145.5	992.9	162.4	242.5	25.2	1590.1	668
Lipetsk oblast	Coniferous	16.4	57.3	178.7	9.4	3.1	0.0	265.0	387
Lipetsk oblast	Pine	16.4	57.0	177.8	9.4	3.1	0.0	263.8	389
Lipetsk oblast	Spruce	0.0	0.1	0.3	0.0	0.0	0.0	0.4	80
Lipetsk oblast	Larch	0.0	0.2	0.6	0.0	0.0	0.0	0.8	335
Lipetsk oblast	Hard deciduous	4.3	23.4	376.5	91.8	63.1	1.4	560.5	822
Lipetsk oblast	Oak	4.0	20.4	361.0	91.4	63.0	1.4	541.1	825
Lipetsk oblast	Soft deciduous	3.4	17.4	88.7	41.7	55.0	6.2	212.5	477
Lipetsk oblast	Birch	2.5	7.5	48.8	24.8	25.1	0.8	109.4	510
Lipetsk oblast	Aspen	0.2	5.9	14.8	11.5	22.5	2.9	57.8	514
Lipetsk oblast	Shrubs	0.0	0.0	0.0	0.0	0.6	0.0	0.6	111
Lipetsk oblast	Total	24.2	98.1	643.9	142.9	121.8	7.7	1038.5	571
Moscow oblast	Coniferous	86.2	383.0	1607.2	728.5	371.7	0.7	3177.3	349
Moscow oblast	Pine	24.6	147.4	1130.2	216.8	53.9	0.7	1573.5	384
Moscow oblast	Spruce	61.1	229.3	470.3	511.5	317.1	0.0	1589.3	319
Moscow oblast	Larch	0.6	6.3	6.7	0.2	0.7	0.0	14.5	522
Moscow oblast	Hard deciduous	0.3	4.5	121.2	34.1	68.9	24.1	253.2	768
Moscow oblast	Oak	0.3	4.2	117.1	33.7	68.9	24.1	248.4	777
Moscow oblast	Soft deciduous	26.6	80.2	2078.3	990.2	1301.8	404.3	4881.5	502
Moscow oblast	Birch	22.2	60.0	1885.8	849.0	897.5	17.5	3732.0	521
Moscow oblast	Aspen	4.0	10.7	24.1	42.2	350.3	381.4	812.7	461
Moscow oblast	Total	113.1	467.7	3806.7	1752.9	1742.5	429.1	8311.9	434
Orel oblast	Coniferous	8.2	23.1	97.6	0.9	0.3	0.0	130.1	286
Orel oblast	Pine	3.2	18.8	87.0	0.5	0.0	0.0	109.5	331
Orel oblast	Spruce	5.1	2.5	9.6	0.3	0.0	0.0	17.4	152
Orel oblast	Larch	0.0	1.8	1.0	0.1	0.3	0.0	3.2	387
Orel oblast	Hard deciduous	10.0	45.2	317.3	4.4	2.7	0.3	379.8	576
Orel oblast	Oak	9.7	40.5	303.1	4.2	2.7	0.3	360.4	576

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Orel oblast	Soft deciduous	3.2	21.5	217.4	85.0	44.8	1.5	373.4	458
Orel oblast	Birch	2.0	7.5	158.7	17.9	6.1	0.0	192.2	451
Orel oblast	Aspen	1.0	12.0	38.1	66.2	37.6	1.5	156.5	464
Orel oblast	Shrubs	0.0	0.0	0.0	0.0	0.0	0.8	0.8	101
Orel oblast	Total	21.3	89.8	632.4	90.3	47.7	2.5	884.0	457
Rjasan oblast	Coniferous	147.5	337.6	671.9	271.0	61.1	0.6	1489.6	338
Rjasan oblast	Pine	138.5	332.0	660.7	259.1	54.5	0.6	1445.3	347
Rjasan oblast	Spruce	8.8	4.6	10.8	12.0	6.6	0.0	42.7	181
Rjasan oblast	Larch	0.2	1.0	0.3	0.0	0.0	0.0	1.6	271
Rjasan oblast	Hard deciduous	10.0	50.8	347.3	146.0	147.6	45.1	746.9	758
Rjasan oblast	Oak	10.0	50.1	345.5	146.0	147.6	45.1	744.4	760
Rjasan oblast	Soft deciduous	84.5	209.3	961.9	461.0	358.8	64.1	2139.5	465
Rjasan oblast	Birch	45.0	139.7	772.7	375.1	195.5	5.8	1533.8	470
Rjasan oblast	Aspen	25.3	48.8	62.8	60.7	138.2	56.2	392.1	444
Rjasan oblast	Shrubs	1.5	0.0	0.0	0.0	2.4	0.0	3.9	149
Rjasan oblast	Total	243.4	597.7	1981.1	878.0	569.9	109.8	4379.9	437
Smolensk oblast	Coniferous	214.8	788.7	664.2	597.1	234.8	1.3	2501.0	320
Smolensk oblast	Pine	6.0	77.7	338.3	182.4	70.4	1.1	675.9	305
Smolensk oblast	Spruce	208.8	710.6	325.9	414.2	164.5	0.2	1824.1	326
Smolensk oblast	Larch	0.0	0.5	0.0	0.5	0.0	0.0	1.0	235
Smolensk oblast	Hard deciduous	0.0	1.4	28.1	4.6	6.8	0.0	41.0	614
Smolensk oblast	Oak	0.0	0.5	11.4	4.0	3.3	0.0	19.2	583
Smolensk oblast	Soft deciduous	54.2	141.4	2249.6	1060.6	1063.9	312.2	4882.0	393
Smolensk oblast	Birch	42.3	71.8	1793.4	784.6	600.3	43.2	3335.6	410
Smolensk oblast	Aspen	10.2	50.4	173.5	167.2	382.0	266.8	1050.0	386
Smolensk oblast	Shrubs	0.0	0.0	0.0	0.0	1.0	0.0	1.0	109
Smolensk oblast	Total	269.0	931.6	2941.9	1662.3	1306.6	313.5	7424.9	366
Tambov oblast	Coniferous	85.3	161.7	225.4	68.1	29.6	0.2	570.3	339
Tambov oblast	Pine	85.1	161.3	225.3	68.1	29.6	0.2	569.5	341
Tambov oblast	Larch	0.2	0.4	0.1	0.0	0.0	0.0	0.8	265
Tambov oblast	Hard deciduous	44.6	65.2	403.9	39.0	26.5	1.9	581.2	847
Tambov oblast	Oak	42.7	61.1	397.7	38.9	25.8	1.9	568.1	867
Tambov oblast	Soft deciduous	38.8	86.0	231.1	94.8	64.4	9.9	525.1	429
Tambov oblast	Birch	12.8	44.3	118.5	37.9	18.3	0.2	232.0	429
Tambov oblast	Aspen	15.8	26.4	70.9	46.4	33.7	2.1	195.2	460
Tambov oblast	Other species	0.0	0.0	0.2	0.0	0.0	0.0	0.2	433
Tambov oblast	Shrubs	0.0	0.0	0.8	0.0	0.8	1.7	3.2	153

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Tambov oblast	Total	168.7	312.9	861.4	201.9	121.3	13.8	1680.0	465
Tver oblast	Coniferous	562.6	1561.9	2422.3	1371.9	1013.9	110.6	7043.0	301
Tver oblast	Pine	103.8	414.0	1611.0	718.8	515.8	89.3	3452.7	295
Tver oblast	Spruce	458.7	1146.3	811.3	653.1	498.1	21.2	3588.8	306
Tver oblast	Larch	0.0	1.5	0.0	0.0	0.0	0.0	1.5	147
Tver oblast	Hard deciduous	0.0	0.2	0.8	0.0	0.2	2.4	3.5	505
Tver oblast	Oak	0.0	0.0	0.0	0.0	0.0	2.4	2.4	565
Tver oblast	Soft deciduous	197.2	319.2	3917.5	1925.4	1836.5	534.7	8730.5	400
Tver oblast	Birch	136.2	165.6	3377.4	1443.1	1309.7	157.7	6589.7	416
Tver oblast	Aspen	55.3	126.7	304.9	316.4	408.0	364.0	1575.3	378
Tver oblast	Total	759.8	1881.2	6340.5	3297.3	2850.6	647.7	15777.0	348
Tula oblast	Coniferous	9.5	24.5	64.7	5.6	1.3	0.0	105.5	248
Tula oblast	Pine	1.1	7.1	43.3	0.6	1.1	0.0	53.1	332
Tula oblast	Spruce	8.3	13.2	15.3	4.7	0.2	0.0	41.7	172
Tula oblast	Larch	0.1	4.2	6.1	0.4	0.0	0.0	10.7	469
Tula oblast	Hard deciduous	24.7	100.2	485.9	94.1	99.9	7.0	811.9	658
Tula oblast	Oak	24.2	92.3	446.4	91.5	99.8	6.8	760.9	659
Tula oblast	Soft deciduous	4.6	32.9	498.8	121.8	223.2	165.9	1047.3	557
Tula oblast	Birch	2.1	9.0	266.0	83.0	91.0	4.1	455.1	501
Tula oblast	Aspen	2.1	15.4	21.7	19.5	99.5	87.1	245.3	436
Tula oblast	Total	38.7	157.7	1049.4	221.5	324.4	172.9	1964.6	555
Jaroslavl oblast	Coniferous	216.8	498.3	631.5	377.1	174.5	5.7	1903.9	273
Jaroslavl oblast	Pine	11.1	124.1	432.8	118.9	45.6	5.3	737.8	320
Jaroslavl oblast	Spruce	205.7	372.1	198.7	258.1	128.9	0.4	1164.0	249
Jaroslavl oblast	Larch	0.0	2.1	0.0	0.0	0.0	0.0	2.1	244
Jaroslavl oblast	Hard deciduous	0.0	0.0	4.7	1.9	10.3	5.4	22.2	679
Jaroslavl oblast	Oak	0.0	0.0	4.7	1.9	10.3	5.4	22.2	685
Jaroslavl oblast	Soft deciduous	25.4	114.1	1672.7	1089.9	916.0	206.6	4024.5	428
Jaroslavl oblast	Birch	18.4	73.2	1469.8	836.6	486.6	43.4	2928.1	443
Jaroslavl oblast	Aspen	5.6	28.9	144.3	208.5	391.6	162.8	941.7	410
Jaroslavl oblast	Total	242.2	612.4	2308.8	1468.8	1100.7	217.7	5950.6	362
Republic Karelia	Coniferous	799.5	4024.7	6616.4	2542.6	3891.6	5437.0	23311.9	277
Republic Karelia	Pine	691.3	3380.8	4175.2	1304.2	1952.6	3042.5	14546.6	239
Republic Karelia	Spruce	107.6	643.1	2440.9	1238.1	1939.0	2394.5	8763.2	373
Republic Karelia	Larch	0.6	0.9	0.3	0.3	0.0	0.0	2.1	188
Republic Karelia	Soft deciduous	93.7	286.1	2444.9	781.4	1108.9	550.6	5265.6	496
Republic Karelia	Birch	90.4	268.7	2372.2	698.1	983.7	414.4	4827.6	492

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Republic Karelia	Aspen	3.2	12.5	49.6	58.3	100.0	135.1	358.7	601
Republic Karelia	Total	893.3	4310.8	9061.3	3324.0	5000.5	5987.7	28577.6	301
Republic Komi	Coniferous	450.0	4437.9	11621.3	5586.4	33103.5	29750.8	84949.9	348
Republic Komi	Pine	285.2	2618.0	6214.6	1215.7	4413.0	4972.3	19718.7	272
Republic Komi	Spruce	161.3	1817.7	5246.2	4190.5	27852.4	24133.4	63401.5	379
Republic Komi	Fir	0.0	0.4	59.1	101.6	512.6	232.0	905.8	433
Republic Komi	Larch	1.4	1.8	88.2	50.3	269.2	408.6	819.5	419
Republic Komi	Cedar	2.1	0.0	13.2	28.2	56.3	4.5	104.4	261
Republic Komi	Soft deciduous	962.2	1995.5	7724.5	1894.7	2994.1	4950.3	20521.2	373
Republic Komi	Birch	813.3	1621.0	7244.4	1786.0	2791.9	3943.8	18200.3	374
Republic Komi	Aspen	148.7	368.7	393.9	99.5	191.1	1004.2	2206.2	378
Republic Komi	Shrubs	2.7	17.7	457.3	15.3	1.5	0.0	494.4	188
Republic Komi	Total	1414.9	6451.0	19803.1	7496.3	36099.1	34701.1	105965.5	351
Arkhangelsk oblast	Coniferous	429.5	3330.7	8403.3	2512.5	15237.2	29189.7	59102.8	327
Arkhangelsk oblast	Pine	164.3	1639.1	4292.4	987.3	3293.5	6209.7	16586.3	281
Arkhangelsk oblast	Spruce	263.9	1691.3	4099.8	1522.4	11925.0	22716.5	42218.8	348
Arkhangelsk oblast	Larch	1.3	0.3	11.1	2.8	18.6	263.6	297.7	499
Arkhangelsk oblast	Soft deciduous	933.2	2778.7	8486.2	1308.6	1845.0	1241.0	16592.7	391
Arkhangelsk oblast	Birch	910.8	2665.4	8229.9	1173.3	1686.1	958.1	15623.4	392
Arkhangelsk oblast	Aspen	22.4	112.1	249.1	134.1	157.6	282.9	958.3	377
Arkhangelsk oblast	Shrubs	0.0	0.0	0.1	0.0	0.0	0.0	0.1	65
Arkhangelsk oblast	Total	1362.6	6109.4	16889.6	3821.1	17082.1	30430.7	75695.6	339
Vologda oblast	Coniferous	394.4	2243.2	4747.8	1865.6	3874.3	2514.8	15640.1	290
Vologda oblast	Pine	104.7	577.7	2790.6	866.8	1521.2	996.6	6857.6	285
Vologda oblast	Spruce	289.4	1664.8	1954.1	998.7	2353.1	1518.2	8778.3	294
Vologda oblast	Larch	0.4	0.7	3.1	0.0	0.0	0.0	4.2	224
Vologda oblast	Soft deciduous	764.8	2074.5	6505.5	3262.1	6711.4	2174.4	21492.6	457
Vologda oblast	Birch	578.5	1458.3	5834.4	2983.7	5848.1	1041.1	17744.2	471
Vologda oblast	Aspen	174.5	586.3	630.2	248.2	750.1	1099.7	3488.9	408
Vologda oblast	Total	1159.2	4317.7	11253.3	5127.7	10585.7	4689.1	37132.7	368
Kaliningrad oblast	Coniferous	37.4	116.8	134.5	29.6	12.9	1.2	332.4	338
Kaliningrad oblast	Pine	8.7	75.3	51.8	16.7	11.4	1.2	165.1	353
Kaliningrad oblast	Spruce	28.7	41.5	82.4	12.9	1.5	0.0	167.0	326
Kaliningrad oblast	Larch	0.0	0.0	0.3	0.0	0.0	0.0	0.3	127
Kaliningrad oblast	Hard deciduous	6.9	54.4	237.1	48.3	13.4	1.5	361.5	707
Kaliningrad oblast	Oak	5.6	44.4	132.9	36.9	7.9	1.1	228.8	635
Kaliningrad oblast	Soft deciduous	9.0	20.8	409.6	79.7	62.7	10.1	591.9	468

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Kaliningrad oblast	Birch	3.2	8.6	246.1	46.0	24.9	0.4	329.3	496
Kaliningrad oblast	Aspen	0.0	0.0	17.2	4.3	6.8	2.6	30.9	512
Kaliningrad oblast	Total	53.3	192.0	781.2	157.6	89.0	12.8	1285.9	466
Leningrad oblast	Coniferous	301.4	1342.0	2551.5	2703.0	2587.4	217.1	9702.4	312
Leningrad oblast	Pine	116.1	550.7	1815.5	1476.9	1240.6	112.6	5312.1	313
Leningrad oblast	Spruce	184.0	789.6	735.9	1226.1	1346.8	104.4	4386.9	311
Leningrad oblast	Larch	1.4	1.7	0.1	0.0	0.0	0.1	3.4	185
Leningrad oblast	Hard deciduous	0.0	0.0	0.5	0.2	0.5	0.6	1.7	351
Leningrad oblast	Oak	0.0	0.0	0.2	0.2	0.5	0.6	1.5	351
Leningrad oblast	Soft deciduous	88.3	251.6	2199.0	1425.7	2141.8	933.8	7040.2	452
Leningrad oblast	Birch	67.6	180.3	2032.9	1199.2	1723.3	424.9	5628.1	474
Leningrad oblast	Aspen	16.9	54.4	112.4	169.4	358.5	505.2	1216.9	390
Leningrad oblast	Total	389.7	1593.6	4751.0	4128.9	4729.7	1151.4	16744.3	359
Murmansk oblast	Coniferous	133.1	1093.7	1964.5	541.8	2914.5	3743.4	10391.0	266
Murmansk oblast	Pine	122.0	988.3	1633.4	124.1	550.1	1282.2	4700.1	203
Murmansk oblast	Spruce	11.1	105.1	331.1	417.7	2364.4	2461.2	5690.6	357
Murmansk oblast	Larch	0.0	0.3	0.0	0.0	0.0	0.0	0.3	72
Murmansk oblast	Soft deciduous	21.5	122.5	1213.8	212.2	810.2	906.7	3286.9	226
Murmansk oblast	Birch	21.5	122.5	1213.7	211.9	810.2	906.7	3286.5	226
Murmansk oblast	Aspen	0.0	0.0	0.1	0.3	0.0	0.0	0.4	77
Murmansk oblast	Total	154.6	1216.2	3178.3	754.1	3724.7	4650.0	13677.9	255
Novgorod oblast	Coniferous	150.2	756.8	1559.4	1385.0	1131.0	62.7	5045.1	386
Novgorod oblast	Pine	30.8	214.6	1007.4	741.5	460.2	38.6	2493.1	373
Novgorod oblast	Spruce	119.2	540.4	552.1	643.6	670.7	24.0	2550.0	401
Novgorod oblast	Larch	0.2	1.8	0.0	0.0	0.0	0.0	2.0	280
Novgorod oblast	Hard deciduous	0.0	0.8	12.5	3.8	1.9	0.0	19.0	586
Novgorod oblast	Oak	0.0	0.0	10.9	3.8	1.9	0.0	16.6	630
Novgorod oblast	Soft deciduous	122.1	290.8	3364.4	2798.8	3949.5	915.8	11441.5	522
Novgorod oblast	Birch	84.6	153.1	2911.8	2057.9	2820.8	219.4	8247.5	563
Novgorod oblast	Aspen	16.2	45.4	127.7	285.7	681.4	655.6	1812.0	477
Novgorod oblast	Shrubs	0.0	0.0	4.7	2.8	0.7	0.0	8.2	178
Novgorod oblast	Total	272.3	1048.4	4941.0	4190.5	5083.1	978.5	16513.9	471
Pskov oblast	Coniferous	132.8	535.9	1263.9	850.9	395.1	15.4	3194.2	264
Pskov oblast	Pine	71.8	311.7	1170.9	670.1	255.2	10.1	2489.8	270
Pskov oblast	Spruce	61.0	223.9	93.0	180.8	139.9	5.3	704.0	246
Pskov oblast	Larch	0.0	0.3	0.0	0.0	0.0	0.0	0.3	71
Pskov oblast	Hard deciduous	0.0	0.3	7.8	1.2	0.0	0.4	9.8	438

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Pskov oblast	Oak	0.0	0.3	6.2	1.2	0.0	0.4	8.1	452
Pskov oblast	Soft deciduous	96.7	81.0	1064.3	852.0	1027.4	325.6	3447.1	378
Pskov oblast	Birch	63.7	46.6	901.4	687.9	794.5	93.1	2587.3	407
Pskov oblast	Aspen	21.0	19.8	74.9	79.4	135.2	212.7	543.0	333
Pskov oblast	Total	229.5	617.2	2336.1	1704.1	1422.6	341.5	6651.0	313
Nenetsk autonomous okrug	Coniferous	0.0	2.6	17.2	16.7	317.8	347.0	701.4	384
Nenetsk autonomous okrug	Pine	0.0	2.6	11.3	3.7	35.3	8.7	61.6	242
Nenetsk autonomous okrug	Spruce	0.0	0.0	5.9	13.0	282.1	337.5	638.6	407
Nenetsk autonomous okrug	Larch	0.0	0.0	0.0	0.0	0.4	0.8	1.2	390
Nenetsk autonomous okrug	Soft deciduous	0.0	1.2	8.7	0.0	0.5	15.6	26.0	369
Nenetsk autonomous okrug	Birch	0.0	1.2	8.7	0.0	0.5	15.6	26.0	369
Nenetsk autonomous okrug	Total	0.0	3.8	25.9	16.7	318.3	362.6	727.4	383
Republic Adygeja	Coniferous	0.2	1.4	8.9	25.3	88.7	71.8	196.3	300
Republic Adygeja	Pine	0.2	1.2	2.9	3.6	8.9	1.5	18.4	309
Republic Adygeja	Fir	0.0	0.2	6.1	21.6	79.7	70.2	177.9	299
Republic Adygeja	Hard deciduous	26.8	98.5	556.7	163.3	394.6	237.5	1477.3	781
Republic Adygeja	Oak	19.3	58.7	252.6	57.0	112.8	61.3	561.7	726
Republic Adygeja	Soft deciduous	2.0	8.9	42.2	14.8	22.7	13.2	103.9	447
Republic Adygeja	Birch	0.0	0.0	19.4	0.8	6.7	0.8	27.7	570
Republic Adygeja	Aspen	0.6	3.0	5.2	10.0	9.3	2.0	30.0	496
Republic Adygeja	Other species	0.2	6.0	6.1	3.4	5.6	1.9	23.2	306
Republic Adygeja	Shrubs	0.0	1.3	1.4	0.0	0.0	0.0	2.8	163
Republic Adygeja	Total	29.2	116.1	615.3	206.8	511.6	324.4	1803.4	628
Republic Dagestan	Coniferous	4.3	13.6	166.2	19.3	9.1	0.0	212.5	263
Republic Dagestan	Pine	4.3	13.6	166.2	19.3	9.1	0.0	212.5	263
Republic Dagestan	Hard deciduous	17.0	59.5	1430.3	156.9	85.8	16.7	1766.2	689
Republic Dagestan	Oak	8.6	30.3	1026.7	94.7	47.3	8.6	1216.3	862
Republic Dagestan	Soft deciduous	3.2	2.8	104.8	35.0	33.4	26.1	205.3	237
Republic Dagestan	Birch	0.0	0.1	64.8	27.0	22.1	4.0	118.0	192
Republic Dagestan	Aspen	0.0	0.0	5.7	2.0	2.2	0.4	10.4	228
Republic Dagestan	Other species	0.1	3.2	1.0	0.0	0.0	0.0	4.3	144
Republic Dagestan	Shrubs	4.9	1.1	1.2	1.1	0.0	11.7	20.0	146
Republic Dagestan	Total	29.5	80.2	1703.5	212.4	128.2	54.5	2208.3	501
Ingushetia Republic	Coniferous	0.0	1.6	15.7	2.6	0.4	0.0	20.3	324
Ingushetia Republic	Pine	0.0	1.6	15.7	2.6	0.4	0.0	20.3	324
Ingushetia Republic	Hard deciduous	1.7	32.1	195.1	70.3	81.3	13.3	393.8	811
Ingushetia Republic	Oak	0.0	2.6	14.8	5.9	2.2	0.7	26.2	1040

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Ingushetia Republic	Soft deciduous	0.0	0.0	32.0	18.1	28.6	2.1	80.9	418
Ingushetia Republic	Birch	0.0	0.0	10.3	7.6	13.2	0.4	31.5	304
Ingushetia Republic	Aspen	0.0	0.0	2.3	1.6	0.0	0.0	3.9	429
Ingushetia Republic	Shrubs	0.0	0.0	0.0	0.0	0.0	5.7	5.7	180
Ingushetia Republic	Total	1.7	33.7	242.9	91.1	110.3	21.1	500.7	647
Kabardino-Balkaria Republic	Coniferous	0.0	0.7	9.7	4.7	10.8	3.8	29.7	259
Kabardino-Balkaria Republic	Pine	0.0	0.7	9.7	4.7	10.8	3.8	29.7	259
Kabardino-Balkaria Republic	Hard deciduous	6.8	28.8	415.4	109.4	207.6	58.3	826.1	742
Kabardino-Balkaria Republic	Oak	3.3	4.5	70.5	25.6	21.8	3.0	128.8	986
Kabardino-Balkaria Republic	Soft deciduous	0.8	3.9	88.1	46.1	61.5	33.0	233.5	287
Kabardino-Balkaria Republic	Birch	0.0	0.0	42.5	23.2	31.1	5.0	101.7	216
Kabardino-Balkaria Republic	Aspen	0.0	0.0	5.0	2.1	3.6	0.1	10.8	267
Kabardino-Balkaria Republic	Other species	0.2	2.8	0.8	0.0	0.0	0.0	3.9	191
Kabardino-Balkaria Republic	Shrubs	0.0	0.2	1.5	0.0	1.0	0.0	2.7	97
Kabardino-Balkaria Republic	Total	7.9	36.4	515.5	160.2	280.9	95.0	1095.9	524
Kalmik Republic	Hard deciduous	0.2	2.1	10.4	2.3	11.2	9.2	35.4	506
Kalmik Republic	Oak	0.2	0.5	6.5	1.8	10.0	6.2	25.3	900
Kalmik Republic	Soft deciduous	0.0	0.9	0.0	0.5	0.9	0.2	2.5	281
Kalmik Republic	Other species	0.0	0.0	0.6	0.3	0.4	0.0	1.4	263
Kalmik Republic	Shrubs	0.0	3.2	5.1	2.1	0.5	1.5	12.5	153
Kalmik Republic	Total	0.2	6.2	16.1	5.3	13.0	10.9	51.8	312
Karachaevo-Cherkessia Republic	Coniferous	1.7	10.2	155.9	68.9	115.1	50.2	401.9	307
Karachaevo-Cherkessia Republic	Pine	1.7	9.2	133.6	53.6	69.8	23.1	290.9	325
Karachaevo-Cherkessia Republic	Spruce	0.0	0.3	9.8	7.5	10.3	10.6	38.6	290
Karachaevo-Cherkessia Republic	Fir	0.0	0.7	12.5	7.8	35.0	16.4	72.4	256
Karachaevo-Cherkessia Republic	Hard deciduous	5.7	18.2	391.4	170.5	330.8	245.4	1162.0	813
Karachaevo-Cherkessia Republic	Oak	0.0	0.3	142.9	67.1	106.9	45.5	362.7	1063
Karachaevo-Cherkessia Republic	Soft deciduous	3.5	10.2	116.1	100.1	186.9	122.6	539.4	356
Karachaevo-Cherkessia Republic	Birch	0.0	3.6	74.0	62.3	108.6	106.7	355.2	332
Karachaevo-Cherkessia Republic	Aspen	1.8	2.7	12.8	7.9	26.4	9.6	61.2	400
Karachaevo-Cherkessia Republic	Other species	0.0	0.1	1.3	0.0	0.0	0.0	1.4	227
Karachaevo-Cherkessia Republic	Shrubs	1.0	2.1	0.3	0.2	0.0	1.7	5.3	173
Karachaevo-Cherkessia Republic	Total	11.9	40.8	665.1	339.7	632.8	419.8	2110.0	492
Republic Severnaja Osetia - Alania	Coniferous	0.6	2.0	21.8	1.9	0.8	0.3	27.4	290
Republic Severnaja Osetia - Alania	Pine	0.6	2.0	21.8	1.9	0.8	0.3	27.4	290
Republic Severnaja Osetia - Alania	Hard deciduous	23.8	39.4	687.3	178.2	235.9	102.2	1266.7	885
Republic Severnaja Osetia - Alania	Oak	7.8	3.9	77.9	9.0	3.8	0.0	102.5	1082

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Republic Severnaja Osetia - Alania	Soft deciduous	1.0	5.1	63.2	37.0	34.1	1.7	142.0	422
Republic Severnaja Osetia - Alania	Birch	0.0	0.0	25.8	14.2	13.7	0.5	54.1	327
Republic Severnaja Osetia - Alania	Other species	0.0	0.3	0.1	0.3	0.0	0.0	0.7	120
Republic Severnaja Osetia - Alania	Shrubs	0.0	1.0	1.4	0.0	1.3	0.3	4.1	148
Republic Severnaja Osetia - Alania	Total	25.5	47.8	773.9	217.3	272.1	104.4	1441.1	760
Chechnja Republic	Coniferous	0.1	1.8	4.5	0.0	0.0	0.0	6.5	235
Chechnja Republic	Pine	0.1	1.8	4.5	0.0	0.0	0.0	6.5	235
Chechnja Republic	Hard deciduous	13.3	95.1	1443.9	206.0	250.5	83.6	2092.3	812
Chechnja Republic	Oak	1.6	33.7	258.8	53.6	20.5	1.4	369.5	1030
Chechnja Republic	Soft deciduous	0.9	10.7	140.5	33.5	39.0	6.3	230.9	371
Chechnja Republic	Birch	0.0	1.5	60.3	4.1	2.0	0.0	67.9	226
Chechnja Republic	Aspen	0.0	0.0	7.0	0.6	0.0	0.0	7.6	292
Chechnja Republic	Other species	2.2	3.1	4.3	2.5	0.6	0.5	13.0	272
Chechnja Republic	Shrubs	0.0	0.3	0.0	0.5	0.1	4.1	5.0	149
Chechnja Republic	Total	16.4	110.9	1593.2	242.5	290.2	94.5	2347.7	710
Krasnodar Kray	Coniferous	19.4	56.6	34.3	36.8	136.7	164.4	448.2	357
Krasnodar Kray	Pine	19.1	53.1	19.0	5.7	14.4	9.2	120.7	282
Krasnodar Kray	Spruce	0.0	0.0	2.7	4.1	12.2	3.0	22.0	381
Krasnodar Kray	Fir	0.3	3.5	11.3	25.3	106.1	151.7	298.2	401
Krasnodar Kray	Hard deciduous	88.6	449.3	3162.3	1406.8	2812.7	1157.0	9076.7	734
Krasnodar Kray	Oak	66.8	306.1	1939.1	868.3	1754.0	300.4	5234.7	698
Krasnodar Kray	Soft deciduous	6.2	30.2	115.2	49.4	85.4	82.7	369.1	428
Krasnodar Kray	Birch	0.1	1.8	39.9	11.4	23.2	14.0	90.4	611
Krasnodar Kray	Aspen	2.2	12.1	14.3	22.7	33.7	9.5	94.5	456
Krasnodar Kray	Other species	2.3	24.3	48.1	21.6	109.1	120.9	326.3	408
Krasnodar Kray	Shrubs	0.1	5.6	3.2	1.7	0.0	1.9	12.5	162
Krasnodar Kray	Total	116.6	566.0	3363.1	1516.2	3143.9	1527.0	10232.9	666
Stavropol Kray	Coniferous	1.2	5.7	0.0	0.0	0.0	0.0	6.9	200
Stavropol Kray	Pine	1.2	5.7	0.0	0.0	0.0	0.0	6.9	201
Stavropol Kray	Hard deciduous	2.6	24.2	353.5	86.6	56.1	5.2	528.3	683
Stavropol Kray	Oak	1.1	8.0	140.7	41.9	36.1	4.6	232.4	848
Stavropol Kray	Soft deciduous	0.5	1.4	9.1	1.9	1.0	3.9	17.8	283
Stavropol Kray	Birch	0.1	0.2	0.2	0.0	0.0	0.0	0.5	168
Stavropol Kray	Other species	0.0	0.2	4.8	3.7	0.0	0.0	8.8	140
Stavropol Kray	Shrubs	2.8	0.6	0.5	0.0	0.2	0.3	4.5	112
Stavropol Kray	Total	7.1	32.1	368.0	92.3	57.3	9.4	566.2	581
Astrakhan oblast	Hard deciduous	1.4	12.7	39.1	25.8	7.5	9.5	95.9	590

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Astrakhan oblast	Oak	0.3	1.2	8.6	4.5	1.5	0.2	16.4	807
Astrakhan oblast	Soft deciduous	0.4	7.3	63.4	36.8	49.9	43.7	201.5	325
Astrakhan oblast	Other species	0.0	0.0	0.0	0.1	0.3	0.6	1.0	219
Astrakhan oblast	Shrubs	0.1	0.0	1.6	3.9	15.4	9.2	30.2	165
Astrakhan oblast	Total	1.9	20.0	104.1	66.6	73.0	63.0	328.6	339
Volgograd oblast	Coniferous	47.1	59.3	37.1	0.0	0.0	0.0	143.4	217
Volgograd oblast	Pine	47.1	59.3	37.1	0.0	0.0	0.0	143.4	217
Volgograd oblast	Hard deciduous	42.0	226.6	1134.4	350.2	225.9	37.3	2016.3	653
Volgograd oblast	Oak	34.1	161.2	970.9	289.7	205.8	9.0	1670.6	742
Volgograd oblast	Soft deciduous	3.2	12.9	75.2	49.6	65.4	76.3	282.5	338
Volgograd oblast	Birch	0.2	1.1	9.2	6.0	4.0	0.0	20.6	405
Volgograd oblast	Aspen	0.7	3.6	19.8	9.3	6.3	11.7	51.4	379
Volgograd oblast	Other species	0.3	0.0	7.8	0.0	0.2	0.0	8.4	285
Volgograd oblast	Shrubs	0.0	0.3	0.2	0.2	3.4	33.6	37.8	153
Volgograd oblast	Total	92.6	299.0	1254.7	400.0	294.9	147.2	2488.5	512
Rostov oblast	Coniferous	55.9	130.5	20.9	0.0	0.0	0.0	207.3	281
Rostov oblast	Pine	55.9	130.5	20.9	0.0	0.0	0.0	207.3	281
Rostov oblast	Hard deciduous	18.6	167.3	481.4	69.7	47.0	11.8	795.7	578
Rostov oblast	Oak	12.1	143.6	426.3	18.8	29.1	11.0	640.9	798
Rostov oblast	Soft deciduous	3.5	8.2	38.7	11.4	7.2	6.4	75.3	318
Rostov oblast	Birch	0.0	0.6	6.8	0.3	0.0	0.0	7.8	346
Rostov oblast	Aspen	0.1	1.0	3.4	0.0	0.0	0.0	4.5	274
Rostov oblast	Other species	0.2	0.4	3.3	4.4	0.4	0.0	8.7	268
Rostov oblast	Shrubs	0.2	0.0	0.0	0.1	0.6	15.5	16.5	167
Rostov oblast	Total	78.4	306.4	544.2	85.5	55.3	33.7	1103.5	445
Republic Bashkortostan	Coniferous	451.3	892.0	1145.8	871.3	1138.4	104.5	4603.3	352
Republic Bashkortostan	Pine	353.5	611.9	652.7	558.3	774.8	27.3	2978.5	344
Republic Bashkortostan	Spruce	82.5	217.7	211.0	151.4	201.7	28.4	892.9	291
Republic Bashkortostan	Fir	1.6	18.2	189.2	101.0	75.5	2.3	387.8	442
Republic Bashkortostan	Larch	13.7	44.2	92.9	60.6	86.4	46.4	344.2	697
Republic Bashkortostan	Hard deciduous	10.7	60.4	924.2	591.5	778.0	1942.0	4306.7	806
Republic Bashkortostan	Oak	5.9	25.0	761.8	554.2	641.9	691.9	2680.6	880
Republic Bashkortostan	Soft deciduous	319.2	867.8	5786.9	3530.9	6908.7	4900.2	22313.7	596
Republic Bashkortostan	Birch	34.7	91.7	1722.2	1173.0	2079.0	1189.1	6289.7	427
Republic Bashkortostan	Aspen	137.9	373.4	586.8	558.4	749.6	1041.2	3447.4	395
Republic Bashkortostan	Other species	0.0	0.0	1.0	3.1	3.5	1.8	9.4	335
Republic Bashkortostan	Shrubs	0.0	0.0	0.5	0.1	17.9	4.1	22.6	172

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Republic Bashkortostan	Total	781.1	1820.3	7858.4	4996.9	8846.4	6952.5	31255.7	558
Republic Mariy El	Coniferous	251.1	529.8	1051.3	362.8	209.2	20.9	2425.1	366
Republic Mariy El	Pine	179.8	456.9	883.1	240.4	121.5	17.3	1899.0	361
Republic Mariy El	Spruce	68.5	70.5	167.0	122.1	87.6	3.6	519.2	386
Republic Mariy El	Fir	0.0	0.0	1.1	0.3	0.0	0.0	1.4	218
Republic Mariy El	Larch	2.9	2.5	0.1	0.0	0.0	0.0	5.5	377
Republic Mariy El	Hard deciduous	1.4	2.5	35.2	13.5	18.3	7.3	78.2	630
Republic Mariy El	Oak	1.2	1.8	34.9	13.5	18.3	7.3	77.0	637
Republic Mariy El	Soft deciduous	61.6	447.9	1419.8	509.1	574.1	228.9	3241.2	519
Republic Mariy El	Birch	45.0	366.2	1074.5	325.1	274.3	44.2	2129.4	471
Republic Mariy El	Aspen	7.5	34.6	78.8	78.7	63.9	61.7	325.2	484
Republic Mariy El	Shrubs	0.0	0.0	0.0	0.0	0.2	0.0	0.2	107
Republic Mariy El	Total	314.1	980.2	2506.2	885.3	801.8	257.1	5744.7	442
Republic Mordovia	Coniferous	101.1	231.9	339.1	96.7	27.8	1.6	798.1	333
Republic Mordovia	Pine	94.5	228.5	332.9	93.8	26.1	1.6	777.3	344
Republic Mordovia	Spruce	6.0	0.7	5.6	2.9	1.7	0.0	16.8	136
Republic Mordovia	Larch	0.6	2.8	0.7	0.0	0.0	0.0	4.0	411
Republic Mordovia	Hard deciduous	28.4	50.1	375.7	100.4	89.3	41.8	685.7	731
Republic Mordovia	Oak	19.0	36.7	363.2	100.2	88.7	41.8	649.5	765
Republic Mordovia	Soft deciduous	51.8	274.6	872.5	383.7	217.1	48.1	1847.8	496
Republic Mordovia	Birch	20.0	166.2	446.1	234.7	74.3	8.0	949.3	464
Republic Mordovia	Aspen	17.4	60.4	92.9	101.7	106.3	31.1	409.8	434
Republic Mordovia	Total	181.3	556.5	1587.3	580.9	334.2	91.4	3331.6	472
Republic Tatarstan	Coniferous	125.3	372.1	314.3	80.8	30.3	3.5	926.4	334
Republic Tatarstan	Pine	87.6	310.0	264.4	63.3	26.9	3.5	755.7	378
Republic Tatarstan	Spruce	34.4	41.7	41.6	14.7	3.0	0.0	135.4	192
Republic Tatarstan	Fir	0.0	0.0	5.4	2.7	0.4	0.0	8.6	505
Republic Tatarstan	Larch	3.3	20.4	2.8	0.1	0.0	0.0	26.7	536
Republic Tatarstan	Hard deciduous	69.6	213.4	982.2	244.7	168.7	8.0	1686.5	792
Republic Tatarstan	Oak	51.7	138.4	908.8	242.2	168.5	8.0	1517.6	792
Republic Tatarstan	Soft deciduous	168.3	352.0	1768.8	912.1	885.3	186.9	4273.3	643
Republic Tatarstan	Birch	19.2	59.7	481.5	253.8	277.8	21.0	1113.1	560
Republic Tatarstan	Aspen	101.7	165.8	302.5	347.2	205.8	33.0	1156.0	477
Republic Tatarstan	Shrubs	0.2	0.0	0.2	0.0	14.4	1.8	16.6	167
Republic Tatarstan	Total	363.4	937.5	3065.4	1237.6	1098.7	200.2	6902.8	592
Republic Udmurtia	Coniferous	328.9	1217.9	889.3	698.3	568.7	58.6	3761.7	354
Republic Udmurtia	Pine	60.7	484.3	392.7	127.4	65.2	13.5	1143.7	340

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Republic Udmurtia	Spruce	265.3	723.6	479.8	553.3	495.0	44.9	2562.0	360
Republic Udmurtia	Fir	0.0	0.2	14.9	17.6	8.5	0.2	41.5	467
Republic Udmurtia	Larch	2.9	9.8	1.8	0.0	0.0	0.0	14.5	254
Republic Udmurtia	Hard deciduous	0.0	1.0	12.6	1.5	2.9	0.6	18.6	665
Republic Udmurtia	Oak	0.0	0.3	9.8	0.7	2.2	0.2	13.2	855
Republic Udmurtia	Soft deciduous	131.6	381.8	3018.8	1105.7	959.7	158.4	5756.0	647
Republic Udmurtia	Birch	109.9	310.6	2524.8	780.4	576.5	51.2	4353.3	655
Republic Udmurtia	Aspen	11.2	30.9	62.3	162.3	181.1	30.3	478.1	441
Republic Udmurtia	Total	460.5	1600.7	3920.7	1805.5	1531.3	217.6	9536.3	488
Chuvash Republic	Coniferous	119.3	203.0	201.8	65.0	20.7	3.3	613.1	313
Chuvash Republic	Pine	107.1	190.3	196.2	63.3	19.4	3.3	579.7	334
Chuvash Republic	Spruce	11.8	8.0	3.7	1.7	1.2	0.0	26.3	132
Chuvash Republic	Larch	0.4	4.8	1.9	0.0	0.0	0.0	7.0	272
Chuvash Republic	Hard deciduous	34.7	127.4	509.0	41.1	22.2	20.6	755.0	665
Chuvash Republic	Oak	30.7	120.8	501.1	41.1	22.2	20.6	736.4	680
Chuvash Republic	Soft deciduous	79.6	200.3	658.0	230.3	262.3	125.2	1555.7	570
Chuvash Republic	Birch	29.2	120.1	322.1	136.1	81.7	13.4	702.7	484
Chuvash Republic	Aspen	23.7	35.5	54.9	45.0	42.6	8.9	210.6	437
Chuvash Republic	Shrubs	0.0	0.0	0.0	0.0	1.5	1.7	3.2	147
Chuvash Republic	Total	233.6	530.7	1368.8	336.4	306.7	150.7	2927.0	500
Perm oblast	Coniferous	431.6	2828.6	3130.2	1373.6	4779.9	5798.6	18342.4	347
Perm oblast	Pine	27.5	373.8	640.4	135.0	273.8	184.5	1635.1	285
Perm oblast	Spruce	403.1	2446.1	2447.5	1207.5	4387.9	5423.1	16315.2	354
Perm oblast	Fir	0.0	6.1	41.0	25.2	84.7	174.4	331.4	424
Perm oblast	Larch	1.0	2.2	0.3	1.0	0.4	0.1	5.1	210
Perm oblast	Cedar	0.0	0.3	0.9	4.8	33.1	16.5	55.6	328
Perm oblast	Hard deciduous	0.9	1.1	0.6	0.0	0.2	0.0	2.8	237
Perm oblast	Oak	0.0	0.0	0.0	0.0	0.2	0.0	0.2	647
Perm oblast	Soft deciduous	656.9	1791.1	8444.0	1428.4	1812.6	1575.4	15708.5	447
Perm oblast	Birch	518.8	1370.1	6571.3	906.2	1297.9	1318.4	11982.6	420
Perm oblast	Aspen	55.2	172.9	435.0	400.2	279.2	181.9	1524.5	402
Perm oblast	Total	1089.3	4620.8	11574.7	2802.0	6592.7	7374.0	34053.6	387
Komi-Perm autonomous okrug	Coniferous	123.7	1173.1	1272.8	368.4	1409.9	1440.1	5788.0	319
Komi-Perm autonomous okrug	Pine	45.0	699.3	761.6	111.1	297.7	210.6	2125.3	252
Komi-Perm autonomous okrug	Spruce	78.6	473.4	509.5	254.7	1110.5	1229.4	3656.1	377
Komi-Perm autonomous okrug	Fir	0.0	0.4	1.3	1.8	0.7	0.1	4.3	364
Komi-Perm autonomous okrug	Larch	0.0	0.0	0.0	0.0	1.0	0.0	1.0	299

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Komi-Perm autonomous okrug	Cedar	0.0	0.0	0.4	0.8	0.0	0.0	1.3	238
Komi-Perm autonomous okrug	Soft deciduous	148.5	376.3	1449.0	629.8	577.5	558.0	3739.0	446
Komi-Perm autonomous okrug	Birch	112.5	250.3	1316.9	544.3	490.7	432.0	3146.8	463
Komi-Perm autonomous okrug	Aspen	36.0	125.2	125.2	83.6	86.0	125.5	581.5	373
Komi-Perm autonomous okrug	Total	272.1	1549.4	2721.7	998.2	1987.5	1998.0	9527.0	359
Kirov oblast	Coniferous	699.6	2525.5	3196.3	1884.7	3265.6	1347.7	12919.5	321
Kirov oblast	Pine	334.7	1277.2	2027.7	739.2	723.4	256.9	5358.9	302
Kirov oblast	Spruce	363.9	1245.2	1163.7	1139.4	2535.9	1089.9	7538.0	336
Kirov oblast	Fir	0.0	0.0	4.5	5.8	5.8	0.0	16.0	241
Kirov oblast	Larch	1.0	3.2	0.5	0.3	0.6	0.9	6.6	287
Kirov oblast	Hard deciduous	0.1	0.0	8.5	3.2	8.6	16.1	36.6	731
Kirov oblast	Oak	0.0	0.0	8.4	3.2	7.4	16.1	35.1	829
Kirov oblast	Soft deciduous	503.0	2019.7	7234.0	2088.0	3086.3	1715.6	16646.7	458
Kirov oblast	Birch	313.9	1256.8	6098.3	1547.1	2478.6	997.3	12692.1	463
Kirov oblast	Aspen	178.9	728.8	858.0	484.6	507.3	636.0	3393.7	422
Kirov oblast	Shrubs	0.0	0.0	0.0	0.0	0.6	0.0	0.6	141
Kirov oblast	Total	1202.7	4545.2	10438.9	3975.9	6361.2	3079.4	29603.3	386
Nizhegorogsk oblast	Coniferous	687.0	1684.6	2431.6	711.2	306.4	31.6	5852.4	313
Nizhegorogsk oblast	Pine	600.4	1594.5	2228.1	567.7	178.4	16.8	5186.0	327
Nizhegorogsk oblast	Spruce	83.3	87.2	202.6	143.5	127.5	14.5	658.5	233
Nizhegorogsk oblast	Fir	0.0	0.0	0.5	0.0	0.0	0.0	0.5	122
Nizhegorogsk oblast	Larch	3.3	2.9	0.5	0.0	0.5	0.3	7.5	334
Nizhegorogsk oblast	Hard deciduous	6.1	17.5	327.7	106.3	127.0	50.0	634.7	868
Nizhegorogsk oblast	Oak	4.7	12.9	322.5	106.3	126.9	49.5	622.8	885
Nizhegorogsk oblast	Soft deciduous	254.6	976.2	4147.7	1419.6	1025.4	232.5	8056.0	466
Nizhegorogsk oblast	Birch	153.3	720.2	3508.9	995.3	511.3	111.8	6000.9	462
Nizhegorogsk oblast	Aspen	75.1	187.9	242.0	351.5	440.8	96.3	1393.5	444
Nizhegorogsk oblast	Other species	0.0	0.0	0.0	0.0	0.2	0.0	0.2	417
Nizhegorogsk oblast	Shrubs	0.0	0.0	0.0	0.0	3.3	0.8	4.1	146
Nizhegorogsk oblast	Total	947.7	2678.3	6907.0	2237.1	1462.3	315.0	14547.4	396
Orenburg oblast	Coniferous	44.9	92.5	68.1	8.9	37.2	4.6	256.2	343
Orenburg oblast	Pine	44.9	92.3	68.1	8.9	37.2	4.6	256.0	345
Orenburg oblast	Larch	0.0	0.2	0.0	0.0	0.0	0.0	0.2	71
Orenburg oblast	Hard deciduous	22.5	109.1	619.0	316.6	206.2	12.0	1285.4	680
Orenburg oblast	Oak	3.7	27.1	427.0	297.1	195.5	11.3	961.7	805
Orenburg oblast	Soft deciduous	18.2	70.4	644.9	238.8	244.7	121.7	1338.5	496
Orenburg oblast	Birch	2.5	9.1	106.9	100.3	77.1	1.3	297.1	500

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Orenburg oblast	Aspen	5.6	26.1	81.0	57.6	87.8	3.0	261.2	425
Orenburg oblast	Other species	0.0	3.6	7.7	2.4	0.0	0.9	14.6	326
Orenburg oblast	Shrubs	0.0	0.0	23.1	5.3	8.9	3.5	40.7	157
Orenburg oblast	Total	85.6	275.6	1362.8	571.8	496.9	142.6	2935.4	521
Penza oblast	Coniferous	155.7	339.9	298.3	136.8	57.7	5.2	993.5	332
Penza oblast	Pine	149.8	333.7	298.3	136.8	57.7	5.2	981.4	340
Penza oblast	Spruce	5.7	2.4	0.0	0.0	0.0	0.0	8.1	81
Penza oblast	Larch	0.2	3.9	0.0	0.0	0.0	0.0	4.1	344
Penza oblast	Hard deciduous	22.3	43.0	852.8	337.1	376.8	70.0	1701.9	856
Penza oblast	Oak	18.5	36.8	838.9	336.0	375.4	69.0	1674.6	871
Penza oblast	Soft deciduous	140.3	251.5	1047.2	393.5	310.1	79.5	2222.0	515
Penza oblast	Birch	34.9	94.1	461.9	129.8	71.1	6.2	798.0	462
Penza oblast	Aspen	73.7	98.1	218.3	183.4	152.4	36.0	761.7	450
Penza oblast	Shrubs	0.0	0.0	0.0	0.0	0.0	1.5	1.5	106
Penza oblast	Total	318.3	634.4	2198.2	867.3	744.6	156.1	4919.0	528
Samara oblast	Coniferous	36.6	135.6	111.0	23.1	37.4	5.5	349.3	346
Samara oblast	Pine	35.0	129.1	110.8	23.1	37.4	5.5	340.9	350
Samara oblast	Spruce	1.1	0.0	0.0	0.0	0.0	0.0	1.1	57
Samara oblast	Larch	0.6	6.5	0.2	0.0	0.0	0.0	7.3	475
Samara oblast	Hard deciduous	23.7	75.2	825.2	337.9	337.7	47.3	1646.9	767
Samara oblast	Oak	10.9	37.5	705.6	316.2	324.4	41.8	1436.5	822
Samara oblast	Soft deciduous	68.0	236.6	1182.1	352.0	275.8	75.0	2189.4	605
Samara oblast	Birch	7.5	18.0	164.9	45.0	23.2	0.6	259.2	468
Samara oblast	Aspen	20.0	76.3	211.7	113.0	101.3	13.0	535.3	430
Samara oblast	Other species	0.2	4.1	5.1	3.6	0.0	0.0	13.1	430
Samara oblast	Shrubs	0.0	0.0	0.1	0.3	1.7	0.7	2.8	135
Samara oblast	Total	128.6	451.5	2123.5	716.9	652.6	128.3	4201.4	616
Saratov oblast	Coniferous	71.4	49.8	59.1	4.7	1.6	0.0	186.7	235
Saratov oblast	Pine	70.3	47.4	58.9	4.7	1.6	0.0	182.9	234
Saratov oblast	Larch	1.0	2.4	0.2	0.0	0.0	0.0	3.7	372
Saratov oblast	Hard deciduous	32.3	107.0	1132.9	502.8	448.8	30.6	2254.3	625
Saratov oblast	Oak	22.9	79.6	985.3	473.6	435.1	30.4	2027.0	673
Saratov oblast	Soft deciduous	20.6	50.4	392.3	85.4	105.1	54.6	708.5	459
Saratov oblast	Birch	2.2	3.1	67.8	29.2	5.7	0.0	108.0	400
Saratov oblast	Aspen	5.1	16.8	27.3	16.0	78.3	24.3	167.8	362
Saratov oblast	Other species	0.0	0.0	2.0	0.0	0.0	0.0	2.0	362
Saratov oblast	Shrubs	0.0	0.0	0.9	0.2	2.4	8.4	12.0	143

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Saratov oblast	Total	124.4	207.2	1587.3	593.1	558.0	93.6	3163.4	524
Uljanovsk oblast	Coniferous	236.4	403.8	573.9	127.3	52.4	2.3	1396.2	335
Uljanovsk oblast	Pine	231.7	401.3	573.9	127.3	52.4	2.3	1389.0	341
Uljanovsk oblast	Spruce	4.1	0.2	0.0	0.0	0.0	0.0	4.4	58
Uljanovsk oblast	Larch	0.5	2.3	0.0	0.0	0.0	0.0	2.9	195
Uljanovsk oblast	Hard deciduous	9.2	21.5	418.9	254.1	186.7	18.8	909.3	785
Uljanovsk oblast	Oak	8.2	19.9	413.3	254.1	186.5	18.7	900.7	797
Uljanovsk oblast	Soft deciduous	166.8	330.8	1280.9	561.8	425.6	77.2	2843.2	620
Uljanovsk oblast	Birch	61.9	135.3	641.5	282.9	157.7	7.2	1286.4	686
Uljanovsk oblast	Aspen	76.0	126.3	144.5	201.0	176.3	47.6	771.7	453
Uljanovsk oblast	Shrubs	0.0	0.0	0.0	0.0	0.1	1.9	2.0	154
Uljanovsk oblast	Total	412.4	756.2	2273.7	943.2	664.8	100.3	5150.6	519
Kurgan oblast	Coniferous	261.6	642.2	753.6	99.4	35.9	1.1	1793.6	372
Kurgan oblast	Pine	260.2	640.4	753.1	99.0	35.9	1.1	1789.7	373
Kurgan oblast	Spruce	0.4	0.1	0.4	0.3	0.0	0.0	1.3	76
Kurgan oblast	Larch	0.9	1.7	0.0	0.0	0.0	0.0	2.6	256
Kurgan oblast	Hard deciduous	0.0	0.0	0.0	0.1	0.0	0.0	0.1	98
Kurgan oblast	Soft deciduous	110.2	250.2	3930.5	571.5	281.6	4.5	5148.4	499
Kurgan oblast	Birch	78.9	152.3	3689.3	447.6	214.5	3.6	4586.2	503
Kurgan oblast	Aspen	31.2	97.7	239.9	120.9	65.9	0.9	556.5	472
Kurgan oblast	Shrubs	2.1	20.8	1.5	0.0	0.0	0.0	24.4	167
Kurgan oblast	Total	373.9	913.2	4685.6	670.9	317.4	5.6	6966.6	455
Sverdlovsk oblast	Coniferous	776.8	3794.3	7351.4	2616.5	5520.6	3696.6	23756.2	301
Sverdlovsk oblast	Pine	521.2	2370.5	4891.3	1226.6	2747.9	1758.3	13515.8	287
Sverdlovsk oblast	Spruce	230.2	1307.9	1531.2	790.1	1883.7	1642.4	7385.4	345
Sverdlovsk oblast	Fir	4.9	77.7	171.1	67.6	152.1	186.2	659.6	352
Sverdlovsk oblast	Larch	11.8	14.3	25.9	4.8	7.0	13.3	77.1	400
Sverdlovsk oblast	Cedar	8.8	23.8	732.0	527.5	729.9	96.4	2118.3	252
Sverdlovsk oblast	Hard deciduous	0.0	0.0	0.1	0.0	0.0	0.2	0.3	186
Sverdlovsk oblast	Oak	0.0	0.0	0.0	0.0	0.0	0.2	0.2	273
Sverdlovsk oblast	Soft deciduous	662.0	2054.2	10319.7	3751.4	3679.9	2506.4	22973.5	440
Sverdlovsk oblast	Birch	446.0	1403.4	9110.5	2971.2	3038.9	2205.2	19175.1	442
Sverdlovsk oblast	Aspen	207.3	603.1	806.5	712.6	558.9	272.8	3161.3	401
Sverdlovsk oblast	Total	1438.8	5848.5	17671.2	6367.9	9200.6	6203.2	46730.1	356
Tjumen oblast	Coniferous	257.6	617.2	2528.7	1956.0	4646.5	662.6	10668.6	352
Tjumen oblast	Pine	222.8	562.3	2148.6	1413.7	2493.9	324.4	7165.7	333
Tjumen oblast	Spruce	19.0	34.1	132.2	182.7	478.4	190.9	1037.4	257

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Tjumen oblast	Fir	4.2	9.1	20.3	30.9	156.8	95.1	316.5	408
Tjumen oblast	Larch	0.0	0.0	0.0	0.0	0.0	1.9	1.9	401
Tjumen oblast	Cedar	11.6	11.7	227.6	328.8	1517.3	50.2	2147.2	545
Tjumen oblast	Soft deciduous	225.5	473.6	5431.6	1964.2	3889.9	2741.6	14726.3	397
Tjumen oblast	Birch	102.1	259.5	4644.6	1745.1	3656.3	2316.3	12723.9	405
Tjumen oblast	Aspen	115.0	205.0	703.9	204.0	209.3	420.4	1857.5	341
Tjumen oblast	Shrubs	0.0	0.0	0.0	0.0	11.8	13.9	25.7	169
Tjumen oblast	Total	483.1	1090.9	7960.3	3920.2	8548.2	3418.0	25420.6	376
Cheljabinsk oblast	Coniferous	206.7	622.6	1536.2	385.3	401.4	13.8	3166.0	382
Cheljabinsk oblast	Pine	160.3	559.3	1153.2	196.0	153.4	6.4	2228.5	363
Cheljabinsk oblast	Spruce	42.5	28.9	216.0	122.8	151.9	1.5	563.8	391
Cheljabinsk oblast	Fir	0.4	18.9	148.1	47.4	25.5	0.3	240.7	491
Cheljabinsk oblast	Larch	3.5	15.5	18.9	19.0	70.5	5.6	133.0	639
Cheljabinsk oblast	Hard deciduous	1.2	5.1	51.3	29.4	43.2	55.0	185.2	574
Cheljabinsk oblast	Oak	0.3	1.6	24.2	5.8	7.1	6.2	45.3	548
Cheljabinsk oblast	Soft deciduous	86.9	345.3	5623.4	1102.0	932.0	234.3	8323.9	484
Cheljabinsk oblast	Birch	39.1	170.6	4682.8	718.2	568.6	167.9	6347.2	467
Cheljabinsk oblast	Aspen	32.0	106.0	357.9	208.7	211.2	62.3	978.0	438
Cheljabinsk oblast	Shrubs	0.0	0.0	0.0	0.8	9.7	0.0	10.5	169
Cheljabinsk oblast	Total	294.8	973.0	7210.9	1517.5	1386.3	303.1	11685.6	452
Khanti-Mansiisky autonomous okrug	Coniferous	706.2	1222.3	14018.9	8998.0	23156.0	6400.2	54501.6	236
Khanti-Mansiisky autonomous okrug	Pine	577.9	970.7	4938.8	4285.5	15281.1	3144.3	29198.4	189
Khanti-Mansiisky autonomous okrug	Spruce	7.9	70.8	659.8	850.5	4739.3	1280.3	7608.7	289
Khanti-Mansiisky autonomous okrug	Fir	2.5	3.4	6.3	29.2	71.4	332.1	445.0	539
Khanti-Mansiisky autonomous okrug	Larch	6.3	9.3	157.2	182.1	1511.8	1612.5	3479.3	526
Khanti-Mansiisky autonomous okrug	Cedar	111.5	168.0	8256.7	3650.7	1552.3	31.0	13770.2	324
Khanti-Mansiisky autonomous okrug	Soft deciduous	209.4	347.3	2415.9	832.4	3113.8	9487.7	16406.5	299
Khanti-Mansiisky autonomous okrug	Birch	158.4	247.5	2267.3	795.7	3055.9	7336.7	13861.7	302
Khanti-Mansiisky autonomous okrug	Aspen	50.9	99.8	136.2	23.9	47.7	2150.4	2509.0	284
Khanti-Mansiisky autonomous okrug	Other species	0.0	0.0	0.0	0.0	8.9	0.0	8.9	317
Khanti-Mansiisky autonomous okrug	Shrubs	0.0	0.0	0.0	0.0	256.9	3.4	260.3	188
Khanti-Mansiisky autonomous okrug	Total	915.6	1569.6	16434.8	9830.4	26535.6	15891.3	71177.3	248
Jamalo-Nenetsky autonomous okrug	Coniferous	77.9	449.6	11514.1	7547.2	19039.1	10063.3	48691.2	353
Jamalo-Nenetsky autonomous okrug	Pine	36.2	179.8	2863.8	1337.4	4939.3	1236.6	10593.0	235
Jamalo-Nenetsky autonomous okrug	Spruce	0.2	4.1	1075.2	840.1	2198.6	932.6	5050.8	265
Jamalo-Nenetsky autonomous okrug	Fir	0.0	0.0	0.0	0.3	2.0	2.5	4.8	399
Jamalo-Nenetsky autonomous okrug	Larch	34.9	181.8	4064.9	2617.9	10246.5	7874.5	25020.5	481

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Jamalo-Nenetsky autonomous okrug	Cedar	6.6	83.9	3510.3	2751.5	1652.7	17.1	8022.0	369
Jamalo-Nenetsky autonomous okrug	Soft deciduous	25.0	37.5	944.3	518.0	1763.0	735.6	4023.4	251
Jamalo-Nenetsky autonomous okrug	Birch	24.9	35.5	931.9	511.8	1737.1	654.9	3896.1	249
Jamalo-Nenetsky autonomous okrug	Aspen	0.1	1.0	5.3	3.5	8.8	33.9	52.6	253
Jamalo-Nenetsky autonomous okrug	Shrubs	0.6	290.9	765.0	163.4	382.4	41.8	1644.1	189
Jamalo-Nenetsky autonomous okrug	Total	103.5	778.0	13223.4	8228.5	21184.5	10840.7	54358.6	334
Republic Altai	Coniferous	292.6	265.5	3804.6	2910.5	2925.5	1663.2	11862.0	391
Republic Altai	Pine	1.4	3.0	168.7	51.0	24.2	5.5	253.8	377
Republic Altai	Spruce	0.2	2.4	143.7	71.3	85.3	25.9	328.8	392
Republic Altai	Fir	3.5	9.3	116.8	282.1	534.6	352.4	1298.8	323
Republic Altai	Larch	46.9	35.9	825.9	629.4	1631.5	1274.0	4443.7	350
Republic Altai	Cedar	240.6	214.9	2549.5	1876.7	649.9	5.3	5536.8	458
Republic Altai	Soft deciduous	13.0	68.7	902.9	607.1	1218.4	546.8	3356.9	481
Republic Altai	Birch	4.6	38.1	753.4	457.7	897.1	364.7	2515.6	493
Republic Altai	Aspen	8.4	29.5	144.6	146.1	316.9	171.9	817.3	450
Republic Altai	Shrubs	0.0	1.1	27.5	0.0	9.8	428.8	467.2	188
Republic Altai	Total	305.6	335.3	4735.0	3517.6	4153.8	2638.8	15686.1	395
Republic Burjatia	Coniferous	1552.2	3896.9	18710.7	6779.2	13945.8	10678.5	55563.4	330
Republic Burjatia	Pine	407.9	1353.4	3915.4	760.0	1157.1	999.1	8592.9	258
Republic Burjatia	Spruce	0.0	0.3	101.2	66.1	210.5	202.5	580.5	324
Republic Burjatia	Fir	2.5	13.6	333.0	165.4	255.0	29.3	798.7	225
Republic Burjatia	Larch	1071.5	2136.4	9081.8	4561.7	11111.8	9407.9	37371.1	343
Republic Burjatia	Cedar	70.4	393.3	5279.3	1226.0	1211.4	39.8	8220.1	392
Republic Burjatia	Hard deciduous	0.0	0.0	9.2	0.0	0.0	0.0	9.2	207
Republic Burjatia	Soft deciduous	149.5	340.3	2582.6	703.3	967.1	437.8	5180.5	283
Republic Burjatia	Birch	58.6	158.8	1953.3	487.3	581.5	139.2	3378.6	261
Republic Burjatia	Aspen	90.8	180.8	616.3	213.8	378.7	288.8	1769.1	340
Republic Burjatia	Shrubs	523.8	1947.5	3080.0	196.1	139.7	17.8	5904.9	162
Republic Burjatia	Total	2225.5	6184.7	24382.6	7678.5	15052.6	11134.1	66657.9	298
Republic Tyva	Coniferous	424.0	1208.1	8817.5	6529.6	6315.5	2242.2	25537.0	338
Republic Tyva	Pine	4.6	12.4	27.3	32.2	257.4	1.6	335.5	330
Republic Tyva	Spruce	0.0	1.0	35.2	21.4	93.7	72.9	224.2	348
Republic Tyva	Fir	0.0	0.0	0.4	0.6	0.2	0.1	1.3	192
Republic Tyva	Larch	227.3	336.9	2274.9	1512.6	5732.6	2161.3	12245.5	324
Republic Tyva	Cedar	192.1	857.8	6479.7	4962.9	231.6	6.3	12730.4	353
Republic Tyva	Soft deciduous	1.8	22.2	416.2	181.7	314.7	267.4	1204.0	426
Republic Tyva	Birch	1.1	16.6	385.0	162.2	286.5	211.3	1062.7	434

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Republic Tyva	Aspen	0.7	3.9	12.2	1.6	2.2	0.8	21.4	334
Republic Tyva	Shrubs	117.6	135.3	83.7	6.1	49.0	25.4	417.1	188
Republic Tyva	Total	543.4	1365.6	9317.4	6717.4	6679.2	2535.0	27158.1	337
Khakass Republic	Coniferous	168.8	519.5	3556.1	2150.6	2101.7	416.8	8913.5	416
Khakass Republic	Pine	32.1	115.7	364.3	86.3	90.9	36.3	725.7	318
Khakass Republic	Spruce	0.0	1.3	41.2	36.3	54.4	13.9	147.1	367
Khakass Republic	Fir	54.1	62.5	329.9	349.4	619.5	148.2	1563.5	284
Khakass Republic	Larch	52.3	159.9	455.1	178.3	254.9	169.3	1269.8	327
Khakass Republic	Cedar	30.4	180.1	2365.7	1500.2	1082.1	49.1	5207.5	557
Khakass Republic	Hard deciduous	0.0	0.1	0.1	0.0	0.0	0.0	0.2	143
Khakass Republic	Soft deciduous	13.4	120.9	1638.4	505.6	948.4	237.7	3464.3	415
Khakass Republic	Birch	11.8	97.9	1524.8	459.2	868.7	185.4	3147.9	421
Khakass Republic	Aspen	1.5	22.2	109.8	41.8	69.2	47.8	292.3	370
Khakass Republic	Other species	0.0	0.0	0.0	0.4	0.0	0.0	0.4	618
Khakass Republic	Shrubs	0.0	0.2	2.7	1.2	9.2	2.2	15.6	170
Khakass Republic	Total	182.2	640.6	5197.3	2657.8	3059.3	656.7	12394.0	415
Altai kray	Coniferous	167.4	387.9	4399.1	1611.4	1353.6	311.2	8230.7	426
Altai kray	Pine	103.2	360.1	3897.8	1144.4	707.5	20.4	6233.3	466
Altai kray	Spruce	7.3	0.0	14.9	14.8	27.2	6.6	70.9	138
Altai kray	Fir	18.3	19.2	141.1	335.6	473.9	92.3	1080.4	289
Altai kray	Larch	12.0	6.8	169.4	62.6	129.9	189.7	570.4	496
Altai kray	Cedar	26.6	1.9	175.9	54.0	15.2	2.1	275.6	533
Altai kray	Hard deciduous	0.0	0.3	2.2	2.6	0.2	0.0	5.4	229
Altai kray	Soft deciduous	243.7	432.0	2834.4	1403.3	2059.6	483.5	7456.5	458
Altai kray	Birch	51.4	128.8	2255.7	851.2	866.7	155.4	4309.2	518
Altai kray	Aspen	191.7	294.2	560.0	530.3	1172.0	321.1	3069.3	397
Altai kray	Other species	0.0	0.0	0.3	0.0	0.5	4.1	4.9	513
Altai kray	Shrubs	0.5	0.0	2.9	0.8	20.2	105.2	129.5	162
Altai kray	Total	411.6	820.3	7239.0	3018.0	3434.1	904.0	15826.9	435
Krasnoyarsk kray	Coniferous	1849.8	3964.3	22544.4	20186.7	28036.9	42147.6	118729.7	316
Krasnoyarsk kray	Pine	1083.3	1863.2	5370.8	2041.3	7301.4	11271.3	28931.2	286
Krasnoyarsk kray	Spruce	25.9	95.5	794.7	1300.7	5145.8	12496.8	19859.5	323
Krasnoyarsk kray	Fir	301.6	1038.3	2399.2	1841.1	6783.2	3661.6	16024.9	267
Krasnoyarsk kray	Larch	119.2	168.3	1147.1	694.2	3249.8	14562.1	19940.7	302
Krasnoyarsk kray	Cedar	319.8	799.1	12832.7	14309.4	5556.7	155.7	33973.4	389
Krasnoyarsk kray	Soft deciduous	401.7	2663.9	17166.6	5733.9	12643.7	11955.2	50564.9	362
Krasnoyarsk kray	Birch	205.4	1884.0	15246.3	5025.3	10590.0	8964.6	41915.6	366

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Krasnoyarsk kray	Aspen	196.3	774.9	1876.1	694.6	2045.9	2990.5	8578.2	346
Krasnoyarsk kray	Other species	0.0	1.5	22.9	23.2	1.5	0.0	49.2	457
Krasnoyarsk kray	Shrubs	0.4	441.1	323.5	102.0	213.0	49.0	1129.1	183
Krasnoyarsk kray	Total	2251.9	7070.9	40057.4	26045.8	40895.2	54151.8	170473.0	327
Irkutsk oblast	Coniferous	8340.7	10680.7	40000.8	18855.0	36931.8	37683.6	152492.7	325
Irkutsk oblast	Pine	3111.0	3704.4	9827.7	4467.1	8903.0	11814.6	41827.9	267
Irkutsk oblast	Spruce	35.1	327.3	2616.7	1600.8	3773.5	3452.7	11806.2	349
Irkutsk oblast	Fir	105.7	183.1	866.4	703.4	1813.4	1021.3	4693.2	277
Irkutsk oblast	Larch	4511.0	3235.4	13296.0	5334.3	17174.0	20726.1	64276.8	342
Irkutsk oblast	Cedar	577.9	3230.6	13393.9	6749.4	5268.0	668.9	29888.7	406
Irkutsk oblast	Soft deciduous	910.2	2900.5	13324.9	4043.3	7858.7	5377.6	34415.2	320
Irkutsk oblast	Birch	457.7	1458.6	11740.0	3502.0	6485.4	3244.2	26888.0	339
Irkutsk oblast	Aspen	451.8	1433.9	1570.7	533.8	1371.6	2124.2	7486.0	267
Irkutsk oblast	Other species	0.0	0.0	0.0	0.5	0.0	2.9	3.5	392
Irkutsk oblast	Shrubs	181.8	516.6	3717.2	248.8	1965.9	73.4	6703.6	162
Irkutsk oblast	Total	9432.6	14097.9	57042.9	23147.6	46756.4	43137.6	193615.0	314
Kemerovo oblast	Coniferous	520.3	738.7	2925.2	2522.2	3589.4	246.5	10542.3	310
Kemerovo oblast	Pine	68.6	160.2	190.5	50.7	4.9	2.8	477.7	350
Kemerovo oblast	Spruce	13.8	19.6	136.8	97.4	59.6	3.2	330.4	236
Kemerovo oblast	Fir	342.9	525.1	1735.9	1769.0	3213.8	238.7	7825.4	286
Kemerovo oblast	Larch	0.3	2.7	38.6	4.0	2.0	0.2	47.8	592
Kemerovo oblast	Cedar	94.6	31.1	823.4	601.2	309.2	1.6	1861.0	485
Kemerovo oblast	Hard deciduous	0.0	1.3	0.3	0.0	0.0	0.0	1.7	606
Kemerovo oblast	Soft deciduous	265.6	874.1	3116.2	1491.4	2562.8	812.1	9122.1	386
Kemerovo oblast	Birch	24.9	252.0	1763.3	768.9	1236.1	363.7	4408.9	396
Kemerovo oblast	Aspen	231.7	599.2	1306.9	715.4	1308.2	426.5	4587.8	378
Kemerovo oblast	Other species	0.0	0.0	0.3	0.0	0.0	0.0	0.3	171
Kemerovo oblast	Shrubs	2.9	4.0	5.4	2.6	1.8	0.0	16.7	166
Kemerovo oblast	Total	788.7	1618.1	6047.5	4016.2	6154.0	1058.5	19683.1	341
Novosibirsk oblast	Coniferous	47.0	243.6	2560.5	1170.1	1027.1	37.0	5085.5	305
Novosibirsk oblast	Pine	36.9	231.1	2377.4	1011.5	887.8	26.3	4571.1	310
Novosibirsk oblast	Spruce	0.1	2.3	15.1	11.5	39.2	4.2	72.5	178
Novosibirsk oblast	Fir	2.9	1.5	40.0	82.1	79.1	4.4	210.0	284
Novosibirsk oblast	Larch	0.4	2.1	3.3	7.4	7.8	2.1	23.0	452
Novosibirsk oblast	Cedar	6.7	6.6	124.8	57.6	13.2	0.0	208.8	285
Novosibirsk oblast	Hard deciduous	0.1	0.3	1.1	1.4	2.6	0.1	5.6	352
Novosibirsk oblast	Soft deciduous	141.8	434.7	4696.0	1580.7	3489.2	1406.7	11749.2	395

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Novosibirsk oblast	Birch	54.0	266.8	4242.6	1347.4	3087.1	1184.0	10181.9	412
Novosibirsk oblast	Aspen	86.6	167.0	450.2	229.5	394.6	210.3	1538.2	312
Novosibirsk oblast	Other species	0.0	0.0	0.1	0.0	0.0	0.0	0.1	40
Novosibirsk oblast	Shrubs	0.0	2.9	0.5	0.0	11.4	30.4	45.2	145
Novosibirsk oblast	Total	188.9	681.5	7258.3	2752.2	4530.3	1474.3	16885.6	361
Omsk oblast	Coniferous	142.4	322.4	1824.5	816.8	1256.2	129.1	4491.4	271
Omsk oblast	Pine	129.5	254.7	1234.9	551.1	995.3	95.6	3261.2	275
Omsk oblast	Spruce	2.3	16.9	100.2	69.6	57.0	7.1	253.2	188
Omsk oblast	Fir	4.3	14.7	21.3	26.9	64.1	20.6	151.9	163
Omsk oblast	Larch	1.1	4.3	0.4	0.8	2.6	1.8	11.0	289
Omsk oblast	Cedar	5.2	31.9	467.6	168.4	137.2	4.0	814.2	342
Omsk oblast	Hard deciduous	0.0	0.0	0.3	0.0	1.0	1.5	2.7	447
Omsk oblast	Soft deciduous	202.7	358.8	2235.8	1163.7	2615.6	3118.6	9695.2	334
Omsk oblast	Birch	48.7	160.8	1955.1	979.4	2499.3	2454.4	8097.7	349
Omsk oblast	Aspen	153.4	195.4	245.5	170.3	106.2	663.3	1534.0	269
Omsk oblast	Shrubs	0.0	0.0	0.0	0.0	1.1	3.0	4.1	116
Omsk oblast	Total	345.1	681.3	4060.5	1980.5	3873.9	3252.2	14193.5	311
Tomsk oblast	Coniferous	595.3	1056.6	10955.1	10107.1	13236.0	3028.4	38978.5	351
Tomsk oblast	Pine	402.6	690.0	3900.8	2791.8	8110.0	2277.3	18172.5	302
Tomsk oblast	Spruce	8.0	48.9	245.8	243.7	600.8	220.9	1368.2	285
Tomsk oblast	Fir	76.7	105.2	196.7	255.4	496.7	394.2	1525.0	233
Tomsk oblast	Larch	0.3	0.5	7.7	6.3	24.8	16.9	56.5	652
Tomsk oblast	Cedar	107.6	211.9	6604.0	6809.9	4003.7	119.0	17856.3	454
Tomsk oblast	Soft deciduous	389.1	946.6	6042.3	1270.5	5718.0	14688.4	29055.0	367
Tomsk oblast	Birch	150.5	625.3	5421.6	1088.0	5257.2	11353.8	23896.5	380
Tomsk oblast	Aspen	238.6	320.2	608.4	172.5	425.9	3302.3	5068.0	313
Tomsk oblast	Shrubs	0.0	0.0	0.0	0.0	4.3	7.9	12.2	177
Tomsk oblast	Total	984.4	2003.2	16997.4	11377.6	18958.3	17724.8	68045.7	358
Chita oblast	Coniferous	2645.0	6326.3	24225.8	9699.5	24414.7	11412.1	78723.4	391
Chita oblast	Pine	261.1	837.3	3053.0	852.6	1816.4	670.0	7490.5	295
Chita oblast	Spruce	0.0	0.1	16.8	6.1	11.3	4.6	39.0	302
Chita oblast	Fir	0.0	0.7	2.0	1.7	6.0	2.5	12.8	239
Chita oblast	Larch	2299.7	5079.1	18516.8	8392.4	22383.9	10732.2	67404.2	409
Chita oblast	Cedar	84.2	409.0	2637.2	446.8	197.1	2.7	3776.9	346
Chita oblast	Hard deciduous	0.7	0.0	0.2	0.0	0.0	0.0	0.9	140
Chita oblast	Soft deciduous	272.1	999.8	10960.6	1777.4	2017.0	235.1	16261.9	312
Chita oblast	Birch	187.3	718.5	10080.5	1657.3	1946.6	204.7	14795.0	314

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Chita oblast	Aspen	81.6	278.6	870.7	119.3	68.6	28.9	1447.7	293
Chita oblast	Other species	0.0	0.0	0.0	0.0	0.1	0.0	0.1	19
Chita oblast	Shrubs	336.6	1958.9	3273.5	172.8	95.4	20.2	5857.5	165
Chita oblast	Total	3254.4	9285.0	38460.1	11649.7	26527.1	11667.4	100843.7	349
Aginsky Burjatsky autonomous okrug	Coniferous	49.9	72.0	205.9	235.7	556.7	82.9	1203.1	403
Aginsky Burjatsky autonomous okrug	Pine	6.5	20.3	39.0	29.6	23.1	11.2	129.7	255
Aginsky Burjatsky autonomous okrug	Larch	43.4	51.3	162.1	206.1	533.6	71.7	1068.2	434
Aginsky Burjatsky autonomous okrug	Cedar	0.0	0.3	4.8	0.0	0.0	0.0	5.1	329
Aginsky Burjatsky autonomous okrug	Soft deciduous	19.7	24.5	307.1	60.6	180.0	61.0	652.9	285
Aginsky Burjatsky autonomous okrug	Birch	10.5	19.2	264.8	45.5	177.2	59.8	577.0	292
Aginsky Burjatsky autonomous okrug	Aspen	9.2	5.2	42.3	15.2	2.8	1.2	75.9	243
Aginsky Burjatsky autonomous okrug	Shrubs	0.6	4.2	8.3	0.0	0.0	0.0	13.1	167
Aginsky Burjatsky autonomous okrug	Total	70.2	100.7	521.2	296.4	736.6	143.9	1869.0	349
Taimir autonomous okrug	Coniferous	9.7	9.8	9.5	130.9	254.0	2156.3	2570.2	144
Taimir autonomous okrug	Spruce	0.0	0.2	1.4	0.9	129.1	438.2	569.8	321
Taimir autonomous okrug	Larch	9.7	9.6	8.1	130.0	124.9	1718.1	2000.4	124
Taimir autonomous okrug	Soft deciduous	0.5	1.2	18.8	15.5	61.0	33.9	130.9	290
Taimir autonomous okrug	Birch	0.5	1.2	18.8	15.5	61.0	33.9	130.9	290
Taimir autonomous okrug	Shrubs	7.4	1753.7	1019.9	13.1	3.6	2.9	2800.6	189
Taimir autonomous okrug	Total	17.6	1764.7	1048.2	159.5	318.6	2193.1	5501.6	166
Ust-Ordynsky Burjatsky autonomous okrug	Coniferous	167.0	216.9	742.6	300.6	337.2	566.1	2330.5	350
Ust-Ordynsky Burjatsky autonomous okrug	Pine	133.1	169.4	565.0	215.8	194.5	166.4	1444.1	334
Ust-Ordynsky Burjatsky autonomous okrug	Spruce	0.0	4.2	34.4	20.4	27.9	13.8	100.8	386
Ust-Ordynsky Burjatsky autonomous okrug	Fir	0.3	0.0	2.3	0.3	0.7	0.2	3.8	259
Ust-Ordynsky Burjatsky autonomous okrug	Larch	27.0	40.7	109.5	57.6	113.7	385.6	734.2	377
Ust-Ordynsky Burjatsky autonomous okrug	Cedar	6.7	2.6	31.4	6.6	0.4	0.0	47.6	386
Ust-Ordynsky Burjatsky autonomous okrug	Soft deciduous	19.9	111.1	1182.6	336.8	501.1	250.8	2402.3	515
Ust-Ordynsky Burjatsky autonomous okrug	Birch	15.9	91.8	1106.2	308.7	457.4	194.2	2174.1	545
Ust-Ordynsky Burjatsky autonomous okrug	Aspen	3.9	19.3	76.5	28.1	43.8	56.6	228.2	338
Ust-Ordynsky Burjatsky autonomous okrug	Shrubs	0.6	9.7	20.6	0.2	0.0	0.0	31.1	188
Ust-Ordynsky Burjatsky autonomous okrug	Total	187.5	337.6	1945.9	637.6	838.4	816.9	4763.9	414
Evenkia autonomous okrug	Coniferous	2423.3	4973.7	14570.7	5452.4	53941.7	46435.5	127797.3	298
Evenkia autonomous okrug	Pine	502.8	376.4	1204.9	357.1	2429.9	2809.1	7680.2	201
Evenkia autonomous okrug	Spruce	2.8	6.1	114.2	163.9	1388.9	2540.7	4216.6	331
Evenkia autonomous okrug	Fir	0.3	0.7	4.7	4.3	18.0	18.2	46.2	211
Evenkia autonomous okrug	Larch	1788.0	4514.9	12563.7	3353.5	47798.3	40528.3	110546.7	307
Evenkia autonomous okrug	Cedar	129.4	75.6	683.2	1573.6	2306.6	539.2	5307.6	321

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Evenkia autonomous okrug	Soft deciduous	93.1	171.9	1486.0	677.6	2931.7	2150.0	7510.3	255
Evenkia autonomous okrug	Birch	87.2	164.0	1437.4	664.2	2900.1	2012.1	7265.0	253
Evenkia autonomous okrug	Aspen	5.9	7.9	48.6	13.4	31.6	137.9	245.3	304
Evenkia autonomous okrug	Shrubs	9.9	42.4	8435.3	290.2	499.1	79.4	9356.3	189
Evenkia autonomous okrug	Total	2526.3	5188.0	24492.0	6420.2	57372.5	48664.9	144663.9	285
Republic Sakha (Jakutia)	Coniferous	10331.8	26688.4	70027.3	18428.7	69314.5	51387.3	246177.9	205
Republic Sakha (Jakutia)	Pine	352.8	1687.7	5649.3	2030.6	7131.2	6153.1	23004.7	232
Republic Sakha (Jakutia)	Spruce	0.6	13.0	131.5	112.0	305.4	585.3	1147.9	312
Republic Sakha (Jakutia)	Fir	0.0	0.6	13.5	9.1	20.5	9.9	53.6	255
Republic Sakha (Jakutia)	Larch	9966.7	24915.0	63267.5	16172.9	61616.4	44599.1	220537.8	202
Republic Sakha (Jakutia)	Cedar	11.6	72.1	965.4	104.1	240.9	39.8	1433.9	352
Republic Sakha (Jakutia)	Soft deciduous	128.9	758.6	3132.4	353.2	475.5	194.3	5043.0	246
Republic Sakha (Jakutia)	Birch	119.1	716.8	2988.5	287.9	372.5	112.9	4597.7	245
Republic Sakha (Jakutia)	Aspen	8.5	27.7	72.4	29.1	71.7	61.3	270.7	276
Republic Sakha (Jakutia)	Shrubs	251.6	9788.9	20304.3	2481.8	3390.9	1579.0	37796.5	175
Republic Sakha (Jakutia)	Total	10712.3	37235.9	93464.0	21263.7	73180.9	53160.6	289017.4	201
Primorsky Krai	Coniferous	121.2	323.7	10631.9	4161.7	7092.5	3233.9	25564.9	365
Primorsky Krai	Pine	0.8	2.2	0.6	1.0	3.1	0.3	8.0	223
Primorsky Krai	Spruce	5.2	91.4	1350.9	1503.8	4694.9	2155.8	9802.0	351
Primorsky Krai	Fir	9.4	27.8	608.7	325.0	311.0	26.5	1308.3	284
Primorsky Krai	Larch	49.1	161.2	1847.7	812.0	1657.9	1050.8	5578.6	423
Primorsky Krai	Cedar	56.6	41.2	6824.1	1520.0	425.5	0.5	8868.0	365
Primorsky Krai	Hard deciduous	40.3	996.7	6063.9	2591.4	4421.1	1387.2	15500.7	450
Primorsky Krai	Oak	33.0	928.1	5549.0	2050.8	2939.4	581.3	12081.6	540
Primorsky Krai	Soft deciduous	79.2	258.7	3482.1	1746.4	4164.7	1270.4	11001.6	543
Primorsky Krai	Birch	7.4	146.9	2632.8	981.8	986.5	318.2	5073.6	410
Primorsky Krai	Aspen	3.4	63.9	265.8	151.6	232.1	109.3	826.0	383
Primorsky Krai	Other species	0.0	2.4	12.7	0.4	0.0	0.3	15.8	218
Primorsky Krai	Shrubs	0.2	7.8	41.5	11.9	10.2	0.8	72.5	144
Primorsky Krai	Total	240.9	1589.3	20232.3	8511.8	15688.5	5892.7	52155.5	416
Khabarovsk Krai	Coniferous	2417.4	9309.8	35759.7	17344.7	47718.0	32129.2	144678.9	374
Khabarovsk Krai	Pine	80.4	144.0	503.2	270.3	839.9	862.6	2700.4	238
Khabarovsk Krai	Spruce	62.6	537.9	2738.7	2361.3	11266.6	7847.9	24815.0	338
Khabarovsk Krai	Fir	67.9	127.8	767.9	386.3	254.1	22.0	1626.1	258
Khabarovsk Krai	Larch	2179.8	8490.4	30595.5	13845.9	35056.2	23388.1	113556.0	392
Khabarovsk Krai	Cedar	26.8	9.6	1154.4	481.0	301.1	8.5	1981.4	371
Khabarovsk Krai	Hard deciduous	43.0	113.6	661.5	505.2	1956.5	566.0	3845.9	269

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Khabarovsk Kray	Oak	7.5	44.5	366.7	264.0	855.0	200.1	1737.8	525
Khabarovsk Kray	Soft deciduous	388.8	2251.9	9220.2	2554.8	5046.0	1609.9	21071.5	376
Khabarovsk Kray	Birch	221.8	1550.6	7821.6	1730.0	1609.6	438.9	13372.5	327
Khabarovsk Kray	Aspen	125.3	535.2	786.4	307.7	464.9	255.0	2474.5	358
Khabarovsk Kray	Other species	0.4	0.3	5.4	8.3	7.6	0.0	22.0	245
Khabarovsk Kray	Shrubs	32.4	482.8	8109.3	831.6	293.4	5.5	9755.0	151
Khabarovsk Kray	Total	2882.1	12158.4	53756.2	21244.6	55021.5	34310.6	179373.3	344
Amur oblast	Coniferous	2441.1	4478.8	13306.9	7091.4	14940.5	9338.2	51596.9	343
Amur oblast	Pine	156.8	378.4	718.5	153.1	194.5	66.9	1668.2	239
Amur oblast	Spruce	0.9	13.4	287.6	304.7	692.4	320.5	1619.4	354
Amur oblast	Fir	0.0	6.2	55.7	45.4	23.8	3.2	134.3	279
Amur oblast	Larch	2283.1	4080.8	12236.8	6577.4	14019.1	8947.2	48144.4	348
Amur oblast	Cedar	0.3	0.0	8.3	10.8	10.7	0.5	30.6	372
Amur oblast	Hard deciduous	249.9	806.8	1012.8	367.0	382.3	88.4	2907.2	560
Amur oblast	Oak	247.8	798.1	904.1	336.6	370.9	87.9	2745.5	613
Amur oblast	Soft deciduous	229.1	1303.8	10253.2	3078.0	3907.7	570.6	19342.4	350
Amur oblast	Birch	203.6	1213.7	9962.9	2880.9	3592.7	479.0	18332.8	347
Amur oblast	Aspen	22.4	74.4	197.9	103.4	162.8	55.2	616.0	346
Amur oblast	Other species	0.0	0.0	1.4	0.1	0.0	0.0	1.5	430
Amur oblast	Shrubs	287.0	1010.8	2215.2	107.1	39.7	6.0	3665.7	164
Amur oblast	Total	3207.2	7600.1	26789.5	10643.6	19270.2	10003.2	77513.8	333
Kamchatka oblast	Coniferous	37.0	120.1	174.7	73.8	476.4	1266.6	2148.6	289
Kamchatka oblast	Pine	4.9	18.1	0.0	0.0	0.0	0.0	23.0	143
Kamchatka oblast	Spruce	0.2	9.0	31.6	16.2	226.0	472.6	755.7	352
Kamchatka oblast	Larch	31.9	92.9	143.1	57.7	250.5	793.9	1370.0	267
Kamchatka oblast	Hard deciduous	4.1	13.0	343.3	571.4	4640.7	3178.2	8750.6	206
Kamchatka oblast	Soft deciduous	4.6	88.4	771.0	362.8	997.6	843.4	3067.9	323
Kamchatka oblast	Birch	3.5	45.1	374.7	174.5	799.4	686.9	2084.1	378
Kamchatka oblast	Aspen	0.0	0.9	17.2	5.4	5.7	26.7	56.0	347
Kamchatka oblast	Other species	1.1	56.4	2165.7	56.5	12.0	2.5	2294.1	229
Kamchatka oblast	Shrubs	8.9	87.6	3970.3	377.0	67.1	0.2	4511.2	162
Kamchatka oblast	Total	55.8	365.4	7425.1	1441.5	6193.8	5290.8	20772.4	213
Magadan oblast	Coniferous	243.8	886.7	3688.6	817.9	2932.5	3481.1	12050.5	177
Magadan oblast	Larch	243.8	886.7	3688.6	817.9	2932.5	3481.1	12050.5	177
Magadan oblast	Hard deciduous	0.0	0.1	5.8	1.7	0.1	0.0	7.7	100
Magadan oblast	Soft deciduous	2.0	27.4	313.0	77.9	249.5	156.4	826.2	348
Magadan oblast	Birch	0.0	0.7	14.8	7.9	14.6	8.0	46.0	437

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Magadan oblast	Shrubs	73.5	2062.6	4149.4	3418.2	3577.4	2152.2	15433.3	158
Magadan oblast	Total	319.3	2976.8	8156.8	4315.7	6759.5	5789.6	28317.7	169
Sakhalinskaja oblast	Coniferous	236.5	1804.2	4648.3	2073.0	3311.2	3394.0	15467.2	390
Sakhalinskaja oblast	Pine	28.7	77.9	0.7	0.0	0.0	0.0	107.3	138
Sakhalinskaja oblast	Spruce	17.6	203.0	423.2	236.4	925.5	1792.3	3598.0	299
Sakhalinskaja oblast	Fir	107.9	612.3	2475.0	1261.3	1232.5	62.6	5751.6	566
Sakhalinskaja oblast	Larch	82.2	911.0	1749.3	575.3	1153.2	1539.2	6010.3	362
Sakhalinskaja oblast	Hard deciduous	15.5	220.5	1022.7	239.4	682.5	298.8	2479.4	225
Sakhalinskaja oblast	Oak	0.3	3.1	34.6	31.2	67.4	0.0	136.7	517
Sakhalinskaja oblast	Soft deciduous	2.6	55.9	741.6	213.3	178.1	58.7	1250.2	406
Sakhalinskaja oblast	Birch	1.8	19.2	302.7	103.2	112.5	22.5	561.8	379
Sakhalinskaja oblast	Aspen	0.0	3.0	62.2	6.2	5.5	1.8	78.8	467
Sakhalinskaja oblast	Other species	0.0	0.0	2.0	0.0	0.0	0.0	2.0	96
Sakhalinskaja oblast	Shrubs	0.6	50.1	398.5	20.4	2.7	0.0	472.3	147
Sakhalinskaja oblast	Total	255.2	2130.8	6813.1	2546.0	4174.6	3751.4	19671.1	346
Evreiskaja autonomous oblast	Coniferous	143.0	108.0	844.6	425.4	516.6	150.1	2187.8	347
Evreiskaja autonomous oblast	Pine	4.3	6.9	0.0	0.0	0.0	0.0	11.3	167
Evreiskaja autonomous oblast	Spruce	2.1	16.6	143.8	98.0	259.6	45.9	566.0	357
Evreiskaja autonomous oblast	Fir	15.0	19.7	131.3	71.7	47.6	0.8	286.1	283
Evreiskaja autonomous oblast	Larch	68.9	59.7	148.2	93.6	161.4	103.4	635.1	358
Evreiskaja autonomous oblast	Cedar	52.7	5.1	421.4	162.2	48.0	0.0	689.4	369
Evreiskaja autonomous oblast	Hard deciduous	15.2	185.9	591.8	302.2	603.5	348.2	2046.7	484
Evreiskaja autonomous oblast	Oak	12.5	174.4	571.5	290.5	567.1	329.7	1945.6	560
Evreiskaja autonomous oblast	Soft deciduous	15.0	245.6	1176.7	350.9	1102.2	540.4	3430.8	586
Evreiskaja autonomous oblast	Birch	8.1	173.3	937.4	179.0	355.1	65.2	1718.1	471
Evreiskaja autonomous oblast	Aspen	3.1	40.0	136.3	52.5	116.2	81.4	429.5	421
Evreiskaja autonomous oblast	Other species	0.0	0.5	0.1	0.0	0.2	0.0	0.8	89
Evreiskaja autonomous oblast	Total	173.2	540.0	2613.2	1078.5	2222.5	1038.7	7666.1	467
Korjasky autonomous okrug	Coniferous	0.4	0.0	29.4	288.8	436.6	60.2	815.4	195
Korjasky autonomous okrug	Larch	0.4	0.0	29.4	288.8	436.6	60.2	815.4	195
Korjasky autonomous okrug	Hard deciduous	3.1	3.0	77.7	353.4	2669.9	962.8	4070.0	219
Korjasky autonomous okrug	Soft deciduous	1.1	19.5	477.2	402.8	439.9	71.0	1411.5	288
Korjasky autonomous okrug	Birch	0.1	0.0	275.3	335.1	78.4	4.0	692.9	370
Korjasky autonomous okrug	Shrubs	0.9	34.6	2042.0	2545.7	6357.6	9.1	10989.9	155
Korjasky autonomous okrug	Total	5.5	57.1	2626.3	3590.7	9904.1	1103.2	17286.9	176
Chukotsky autonomous okrug	Coniferous	65.7	293.1	1158.2	110.4	474.5	819.5	2921.3	174
Chukotsky autonomous okrug	Larch	65.7	293.1	1158.2	110.4	474.5	819.5	2921.3	174

Net Primary Production of Russia forested areas by dominant species, age and administrative regions, 10³t C

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Total	Density, g C m ⁻²
Chukotsky autonomous okrug	Soft deciduous	0.6	8.4	146.2	53.7	103.5	20.5	332.9	336
Chukotsky autonomous okrug	Birch	0.0	0.0	0.6	0.5	0.0	0.1	1.2	407
Chukotsky autonomous okrug	Shrubs	2.5	594.4	1172.0	1197.9	2081.6	45.4	5093.8	159
Chukotsky autonomous okrug	Total	68.8	895.8	2476.4	1362.0	2659.7	885.4	8348.1	168
Russian Federation	Coniferous	47258.1	125522.5	404252.2	192950.3	469519.1	366204.9	1605707.0	298
Russian Federation	Pine	13803.1	39593.7	102080.9	39145.2	84628.6	61419.4	340670.9	267
Russian Federation	Spruce	4869.8	20123.7	36653.2	28065.2	99523.7	98594.6	287830.2	341
Russian Federation	Fir	1127.0	2907.3	10934.3	8402.2	17564.7	7372.6	48308.1	298
Russian Federation	Larch	25277.3	56035.2	178014.7	67423.2	240248.5	196959.0	763958.0	286
Russian Federation	Cedar	2180.8	6862.5	76567.7	49912.9	27549.7	1858.8	164932.4	386
Russian Federation	Hard deciduous	1081.7	5145.5	33074.1	11766.3	23934.1	11370.7	86372.4	446
Russian Federation	Oak	812.2	3851.5	24456.7	8180.2	10743.6	2890.5	50934.7	669
Russian Federation	Soft deciduous	12172.0	37993.0	221786.5	77499.2	125860.8	88453.1	563764.6	394
Russian Federation	Birch	7517.2	25192.4	185055.2	58775.1	91365.3	58909.3	426814.6	385
Russian Federation	Aspen	3848.9	10383.5	19321.2	11757.4	18841.1	22613.8	86765.9	362
Russian Federation	Other species	7.3	109.2	2307.1	134.9	151.3	136.4	2846.3	241
Russian Federation	Shrubs	1870.3	21282.7	63674.3	12223.6	19586.7	4823.7	123461.3	167
Russian Federation	Total	62389.5	190052.9	725094.2	294574.3	639051.9	470988.8	2382151.6	307