

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Belgorod oblast	Coniferous	56.0	1391.3	1455.7	25.5	2.0	0.0	2930.6	1453.7	6.93	0.316
Belgorod oblast	Pine	55.6	1384.9	1451.5	25.5	2.0	0.0	2919.6	1448.2	6.94	0.315
Belgorod oblast	Spruce	0.1	2.0	3.6	0.0	0.0	0.0	5.8	2.9	5.26	0.362
Belgorod oblast	Larch	0.3	4.3	0.6	0.0	0.0	0.0	5.2	2.6	4.12	0.420
Belgorod oblast	Hard deciduous	371.2	2267.8	28342.7	1432.8	650.2	121.6	33186.4	16498.6	8.73	0.531
Belgorod oblast	Oak	292.9	1857.4	27221.9	1379.7	553.6	91.4	31396.9	15609.4	8.88	0.527
Belgorod oblast	Soft deciduous	24.2	70.9	863.3	276.7	173.4	27.7	1436.2	713.7	5.74	0.393
Belgorod oblast	Birch	4.9	12.3	153.2	9.5	2.5	0.6	183.0	90.8	4.64	0.463
Belgorod oblast	Aspen	15.2	39.6	239.8	217.2	90.8	4.8	607.4	301.8	5.44	0.372
Belgorod oblast	Other species	0.1	0.4	6.0	1.4	0.2	0.1	8.2	4.1	2.89	0.548
Belgorod oblast	Shrubs	0.0	1.1	3.2	2.2	2.5	0.6	9.6	4.7	3.17	0.997
Belgorod oblast	Total	451.5	3731.5	30671.0	1738.7	828.3	149.9	37570.9	18674.7	8.38	0.498
Brjansk oblast	Coniferous	2672.4	10915.2	39670.2	14987.5	5598.7	354.7	74198.7	36784.5	6.58	0.330
Brjansk oblast	Pine	766.9	8862.0	36188.8	12748.7	3901.7	325.4	62793.6	31144.1	7.57	0.325
Brjansk oblast	Spruce	1903.3	2021.7	3473.9	2238.8	1697.0	29.3	11364.1	5619.9	3.81	0.359
Brjansk oblast	Larch	1.5	31.3	7.5	0.0	0.0	0.0	40.3	20.1	5.66	0.423
Brjansk oblast	Cedar	0.7	0.1	0.0	0.0	0.0	0.0	0.8	0.4	2.37	0.372
Brjansk oblast	Hard deciduous	195.1	700.6	6138.0	1987.5	2275.2	627.2	11923.6	5926.5	8.81	0.516
Brjansk oblast	Oak	167.1	666.2	5944.7	1928.0	2205.6	559.5	11471.1	5701.4	8.77	0.514
Brjansk oblast	Soft deciduous	490.4	1607.6	31381.5	13855.5	12195.5	2258.4	61789.0	30718.0	6.93	0.405
Brjansk oblast	Birch	293.4	1036.7	25801.0	8180.6	3714.9	127.5	39154.1	19461.7	7.08	0.441
Brjansk oblast	Aspen	139.9	383.0	1531.7	3951.7	6943.8	1948.8	14899.0	7409.9	7.19	0.357
Brjansk oblast	Shrubs	113.9	0.0	0.5	0.0	0.0	0.0	114.3	54.3	0.63	1.442
Brjansk oblast	Total	3471.7	13223.5	77190.2	30830.5	20069.5	3240.3	148025.7	73483.3	6.82	0.370
Vladimir oblast	Coniferous	4232.5	15098.8	51695.4	28739.7	8425.1	72.7	108264.2	53665.5	6.12	0.329
Vladimir oblast	Pine	3002.3	12962.0	48036.3	24053.9	6262.8	67.0	94384.2	46798.7	6.39	0.326
Vladimir oblast	Spruce	1227.5	2116.1	3606.9	4682.8	2160.0	5.7	13799.1	6826.5	4.73	0.355
Vladimir oblast	Larch	2.3	20.3	52.2	3.0	2.3	0.0	80.1	39.9	8.77	0.397
Vladimir oblast	Cedar	0.4	0.3	0.0	0.0	0.0	0.0	0.7	0.4	1.95	0.370
Vladimir oblast	Hard deciduous	2.8	21.0	506.4	250.7	482.9	367.1	1631.0	810.3	9.51	0.485
Vladimir oblast	Oak	2.4	20.7	503.7	250.7	482.9	366.5	1626.8	808.3	9.52	0.484
Vladimir oblast	Soft deciduous	881.8	2658.5	31219.4	15365.7	14645.9	1962.4	66733.7	33166.3	6.26	0.419
Vladimir oblast	Birch	728.0	2294.2	28252.7	12101.8	8588.6	330.3	52295.6	25986.0	6.16	0.441
Vladimir oblast	Aspen	122.7	265.1	1315.2	2428.4	5377.4	1607.4	11116.2	5529.4	7.22	0.355
Vladimir oblast	Total	5117.1	17778.3	83421.3	44356.1	23553.9	2402.2	176628.8	87642.1	6.19	0.360
Voronezh oblast	Coniferous	250.0	5091.9	8373.7	1130.1	704.0	13.4	15563.2	7726.9	6.20	0.321
Voronezh oblast	Pine	249.1	5085.9	8368.8	1130.1	704.0	13.4	15551.3	7721.1	6.20	0.321

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Voronezh oblast	Spruce	0.1	0.3	1.1	0.0	0.0	0.0	1.5	0.7	5.07	0.360
Voronezh oblast	Larch	0.8	5.7	3.8	0.0	0.0	0.0	10.3	5.1	4.72	0.417
Voronezh oblast	Cedar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.365
Voronezh oblast	Hard deciduous	666.1	2230.9	22466.9	2983.0	3420.3	554.8	32322.1	16057.7	7.21	0.528
Voronezh oblast	Oak	503.1	1701.8	20780.5	2820.0	3272.4	544.6	29622.3	14717.6	7.49	0.520
Voronezh oblast	Soft deciduous	163.6	523.2	2971.7	1202.5	2086.8	683.6	7631.4	3792.6	5.31	0.379
Voronezh oblast	Birch	23.1	53.8	502.0	136.6	109.6	4.5	829.6	411.9	4.74	0.455
Voronezh oblast	Aspen	74.1	250.2	790.3	527.8	1098.8	162.1	2903.2	1443.3	5.69	0.364
Voronezh oblast	Other species	0.2	2.2	23.5	1.5	3.5	4.4	35.3	17.5	2.61	0.476
Voronezh oblast	Shrubs	0.7	0.5	1.4	0.5	10.4	196.3	209.8	101.7	1.90	1.051
Voronezh oblast	Total	1080.7	7848.6	33837.2	5317.6	6225.1	1452.6	55761.8	27696.5	6.52	0.429
Ivanovo oblast	Coniferous	2224.7	12198.0	23447.0	16765.9	6194.0	47.2	60876.7	30152.1	5.97	0.340
Ivanovo oblast	Pine	269.6	6636.0	18130.8	8815.0	3185.4	36.5	37073.3	18381.5	7.19	0.327
Ivanovo oblast	Spruce	1948.7	5525.6	5306.4	7950.9	3008.1	10.7	23750.4	11744.2	4.72	0.363
Ivanovo oblast	Larch	4.7	36.3	9.6	0.0	0.5	0.0	51.2	25.5	4.47	0.428
Ivanovo oblast	Cedar	1.6	0.0	0.2	0.0	0.0	0.0	1.8	0.9	2.23	0.379
Ivanovo oblast	Hard deciduous	0.4	0.6	33.7	33.1	220.4	270.5	558.7	277.3	8.53	0.475
Ivanovo oblast	Oak	0.4	0.3	33.2	33.1	218.3	270.5	555.8	275.9	8.52	0.475
Ivanovo oblast	Soft deciduous	435.8	1659.6	27112.8	17792.2	17528.3	2325.8	66854.6	33236.7	7.12	0.414
Ivanovo oblast	Birch	357.6	1371.0	24875.1	14547.4	9984.2	293.9	51429.2	25564.0	7.07	0.436
Ivanovo oblast	Aspen	64.4	179.0	1484.6	2840.4	6850.4	1841.6	13260.4	6597.3	7.96	0.353
Ivanovo oblast	Shrubs	0.0	4.2	0.0	0.0	0.4	0.0	4.6	2.2	1.13	1.158
Ivanovo oblast	Total	2660.9	13862.4	50593.5	34591.2	23943.1	2643.5	128294.6	63668.3	6.53	0.376
Kaluga oblast	Coniferous	2828.9	13278.4	25424.7	13833.7	6401.7	90.5	61858.0	30622.9	6.30	0.344
Kaluga oblast	Pine	190.5	2934.4	17459.0	4285.9	1698.5	64.0	26632.3	13212.3	8.21	0.324
Kaluga oblast	Spruce	2631.6	10298.3	7907.7	9542.3	4701.1	26.5	35107.5	17351.8	5.35	0.361
Kaluga oblast	Larch	4.4	45.5	58.0	5.5	2.1	0.0	115.6	57.6	7.23	0.400
Kaluga oblast	Cedar	2.4	0.1	0.0	0.0	0.0	0.0	2.5	1.2	0.97	0.374
Kaluga oblast	Hard deciduous	45.5	492.3	5022.6	2103.5	2992.5	1074.2	11730.6	5834.4	11.78	0.514
Kaluga oblast	Oak	19.4	301.8	4073.5	1996.5	2844.9	986.7	10222.8	5084.1	11.65	0.509
Kaluga oblast	Soft deciduous	298.0	1258.7	44289.3	23535.5	36926.4	13209.2	119517.0	59445.5	8.40	0.403
Kaluga oblast	Birch	151.6	688.7	36043.2	16230.7	18849.2	2790.0	74753.5	37171.0	8.23	0.433
Kaluga oblast	Aspen	112.4	424.8	3472.2	6419.8	17372.0	10267.0	38068.2	18942.7	8.70	0.351
Kaluga oblast	Other species	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.1	4.44	0.769
Kaluga oblast	Shrubs	0.0	0.0	0.0	0.0	1.8	4.0	5.8	2.8	1.56	1.083
Kaluga oblast	Total	3172.3	15029.6	74736.6	39472.8	46322.4	14377.9	193111.5	95905.6	7.71	0.387
Kostroma oblast	Coniferous	11281.3	43562.4	65552.6	49629.7	56922.7	16994.1	243942.8	120816.1	5.64	0.345

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Kostroma oblast	Pine	2450.7	23117.9	55646.5	29383.6	16751.8	3520.9	130871.4	64839.3	5.89	0.333
Kostroma oblast	Spruce	8818.6	20410.8	9878.7	20239.5	40152.0	13458.5	112958.0	55920.5	5.38	0.360
Kostroma oblast	Fir	0.0	0.4	3.5	5.0	1.3	0.0	10.2	5.1	5.31	0.262
Kostroma oblast	Larch	3.9	32.9	23.9	1.6	17.7	14.7	94.6	47.1	7.07	0.406
Kostroma oblast	Cedar	8.2	0.4	0.0	0.0	0.0	0.0	8.5	4.2	3.13	0.380
Kostroma oblast	Hard deciduous	0.0	2.4	8.2	3.2	33.1	23.8	70.7	35.1	9.32	0.477
Kostroma oblast	Oak	0.0	2.2	7.8	3.2	33.1	23.8	70.1	34.8	9.30	0.476
Kostroma oblast	Soft deciduous	3039.8	11596.3	100898.0	95920.3	80128.1	21598.9	313181.4	155702.7	6.78	0.413
Kostroma oblast	Birch	2035.3	8175.5	89952.6	84979.1	63293.2	5961.2	254396.9	126467.7	6.90	0.430
Kostroma oblast	Aspen	984.1	3297.7	10016.7	10343.2	16304.7	15489.8	56436.2	28069.2	6.44	0.354
Kostroma oblast	Total	14321.1	55161.1	166458.8	145553.1	137083.9	38616.8	557194.9	276554.0	6.23	0.381
Kursk oblast	Coniferous	118.2	1154.8	2139.9	26.5	6.6	0.0	3446.1	1709.6	6.16	0.318
Kursk oblast	Pine	87.7	1096.4	2097.4	25.4	6.1	0.0	3313.1	1644.0	6.41	0.316
Kursk oblast	Spruce	29.6	54.1	35.2	0.8	0.5	0.0	120.0	59.1	2.95	0.388
Kursk oblast	Larch	1.0	4.3	7.3	0.3	0.0	0.0	12.9	6.4	6.44	0.400
Kursk oblast	Hard deciduous	185.9	2426.0	16232.4	2283.2	3023.5	240.2	24391.2	12118.7	7.93	0.526
Kursk oblast	Oak	123.1	1674.1	13571.0	2086.9	2965.1	235.6	20655.7	10261.5	7.82	0.515
Kursk oblast	Soft deciduous	24.2	91.2	2885.9	1170.5	2169.5	353.2	6694.4	3328.6	6.93	0.394
Kursk oblast	Birch	6.2	14.9	1237.5	409.9	314.1	20.3	2003.1	995.6	7.11	0.445
Kursk oblast	Aspen	8.0	42.3	115.5	517.2	1514.7	212.2	2409.9	1198.4	7.01	0.354
Kursk oblast	Other species	0.3	1.7	7.3	1.3	0.4	0.0	10.9	5.4	1.95	0.477
Kursk oblast	Shrubs	0.3	3.9	4.4	6.4	31.8	0.0	46.8	22.7	2.07	1.040
Kursk oblast	Total	328.8	3677.7	21269.8	3487.9	5231.7	593.4	34589.4	17185.0	7.47	0.466
Lipetsk oblast	Coniferous	173.4	1976.9	7416.0	459.2	137.7	5.7	10169.0	5049.8	7.36	0.315
Lipetsk oblast	Pine	167.1	1952.2	7375.3	455.8	136.1	5.7	10092.3	5011.7	7.38	0.314
Lipetsk oblast	Spruce	4.5	11.4	20.7	1.9	0.0	0.0	38.6	19.0	3.78	0.367
Lipetsk oblast	Larch	1.8	13.3	20.0	1.5	1.6	0.0	38.2	19.0	7.89	0.397
Lipetsk oblast	Hard deciduous	104.6	750.7	8507.7	1916.3	1134.1	29.9	12443.4	6185.6	9.06	0.514
Lipetsk oblast	Oak	84.7	661.8	8239.2	1897.5	1130.8	29.6	12043.7	5986.9	9.11	0.512
Lipetsk oblast	Soft deciduous	47.1	239.1	2331.3	1389.0	2030.1	262.8	6299.3	3132.4	7.02	0.396
Lipetsk oblast	Birch	31.3	113.4	1254.4	733.7	732.6	33.2	2898.7	1440.7	6.71	0.441
Lipetsk oblast	Aspen	7.1	74.7	302.7	383.6	951.1	137.5	1856.7	923.9	8.20	0.354
Lipetsk oblast	Other species	0.2	1.5	5.6	0.0	0.0	0.0	7.3	3.6	1.97	0.430
Lipetsk oblast	Shrubs	0.2	0.9	5.2	0.3	14.2	0.0	20.9	10.1	1.85	1.055
Lipetsk oblast	Total	325.5	2969.1	18265.9	3764.8	3316.1	298.4	28939.9	14381.6	7.89	0.399
Moscow oblast	Coniferous	2478.2	15436.6	65849.9	37594.7	22721.6	73.4	144154.4	71443.2	8.15	0.338
Moscow oblast	Pine	414.9	5132.6	44938.3	9928.8	2708.6	57.4	63180.6	31335.4	7.95	0.325

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Moscow oblast	Spruce	2051.0	10162.1	20710.4	27642.6	19957.6	16.0	80539.7	39891.6	8.32	0.349
Moscow oblast	Fir	0.0	0.2	0.4	0.4	1.6	0.0	2.6	1.3	8.63	0.249
Moscow oblast	Larch	9.4	141.1	200.8	23.0	53.8	0.0	428.0	213.2	7.98	0.396
Moscow oblast	Cedar	2.8	0.6	0.0	0.0	0.0	0.0	3.4	1.7	1.63	0.370
Moscow oblast	Hard deciduous	14.7	238.5	3755.8	698.7	1311.1	528.3	6547.2	3255.4	10.26	0.503
Moscow oblast	Oak	12.3	220.2	3604.3	676.2	1301.2	527.5	6341.7	3153.1	10.26	0.501
Moscow oblast	Soft deciduous	334.8	1300.9	67295.2	31802.6	42189.0	16651.0	159573.5	79363.8	8.49	0.411
Moscow oblast	Birch	257.2	965.1	61606.1	28038.1	28440.7	426.0	119733.2	59543.0	8.64	0.434
Moscow oblast	Aspen	57.0	163.6	432.7	975.1	12083.0	16086.0	29797.3	14827.9	8.75	0.344
Moscow oblast	Other species	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.2	2.37	0.474
Moscow oblast	Total	2827.7	16976.0	136901.3	70096.1	66221.8	17252.6	310275.4	154062.6	8.36	0.375
Orel oblast	Coniferous	155.5	832.1	4036.7	68.9	41.1	0.0	5134.3	2545.0	6.85	0.330
Orel oblast	Pine	56.9	683.9	3533.4	35.2	9.9	0.0	4319.3	2141.7	7.91	0.324
Orel oblast	Spruce	97.3	104.0	457.0	23.5	2.9	0.0	684.8	338.3	3.59	0.364
Orel oblast	Larch	1.3	44.2	46.3	10.2	28.3	0.0	130.3	64.9	9.71	0.396
Orel oblast	Hard deciduous	195.1	1460.9	8585.3	121.0	60.6	7.2	10430.1	5188.2	9.61	0.549
Orel oblast	Oak	165.8	1307.6	8253.3	107.0	58.0	7.2	9898.9	4924.0	9.61	0.547
Orel oblast	Soft deciduous	50.0	291.2	5636.6	2445.8	1523.7	111.4	10058.7	5002.2	7.50	0.406
Orel oblast	Birch	21.4	115.2	4247.0	531.0	169.3	7.5	5091.3	2531.1	7.26	0.441
Orel oblast	Aspen	23.8	138.5	810.7	1868.2	1307.0	91.8	4240.1	2109.3	7.65	0.360
Orel oblast	Other species	0.2	0.4	2.9	0.0	0.0	0.0	3.6	1.8	6.54	0.496
Orel oblast	Shrubs	0.0	0.0	0.3	0.0	2.3	27.1	29.6	14.4	2.35	1.025
Orel oblast	Total	400.9	2584.6	18261.8	2635.6	1627.7	145.7	25656.3	12751.5	8.05	0.432
Rjasan oblast	Coniferous	1673.9	7208.8	25703.3	12505.9	3441.5	68.7	50602.1	25086.3	6.27	0.327
Rjasan oblast	Pine	1472.2	6985.2	25205.0	11840.5	2958.4	62.7	48524.0	24057.4	6.37	0.326
Rjasan oblast	Spruce	199.0	184.2	482.2	661.4	483.1	5.9	2015.9	997.9	4.67	0.353
Rjasan oblast	Larch	2.5	39.3	16.1	4.0	0.0	0.0	61.9	30.8	5.76	0.413
Rjasan oblast	Cedar	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.1	3.79	0.379
Rjasan oblast	Hard deciduous	125.4	1068.7	8692.4	3519.0	3178.6	902.5	17486.5	8693.9	9.73	0.495
Rjasan oblast	Oak	122.8	1040.4	8648.7	3518.1	3177.3	902.3	17409.6	8655.7	9.74	0.495
Rjasan oblast	Soft deciduous	813.7	2817.8	24012.4	13158.0	11527.8	2642.9	54972.7	27327.7	6.54	0.418
Rjasan oblast	Birch	471.4	1849.0	19078.5	10485.7	5516.9	175.7	37577.3	18673.8	6.31	0.439
Rjasan oblast	Aspen	216.7	638.0	1073.0	1520.0	4936.3	2396.7	10780.7	5362.6	6.69	0.353
Rjasan oblast	Other species	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.99	0.597
Rjasan oblast	Shrubs	25.6	0.0	0.0	0.0	80.9	0.0	106.4	51.7	2.19	1.033
Rjasan oblast	Total	2638.7	11095.3	58408.1	29183.0	18228.8	3614.0	123167.9	61159.7	6.73	0.383
Smolensk oblast	Coniferous	4920.5	15406.4	25661.7	26568.3	12263.7	109.0	84929.5	42045.6	6.31	0.351

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Smolensk oblast	Pine	88.8	1798.8	13029.5	7609.9	3132.5	70.9	25730.5	12751.5	6.76	0.334
Smolensk oblast	Spruce	4827.1	13581.0	12623.1	18928.5	9126.5	38.0	59124.1	29256.9	6.13	0.360
Smolensk oblast	Larch	0.5	25.6	9.2	29.9	4.7	0.0	69.8	34.8	10.07	0.402
Smolensk oblast	Cedar	4.1	1.0	0.0	0.0	0.0	0.0	5.1	2.5	3.66	0.383
Smolensk oblast	Hard deciduous	9.0	85.7	723.3	140.4	202.2	9.6	1170.2	582.0	10.23	0.527
Smolensk oblast	Oak	1.1	29.3	276.5	118.8	103.7	4.0	533.6	265.3	9.43	0.500
Smolensk oblast	Soft deciduous	582.8	2704.3	74333.6	39143.9	41150.7	13597.5	171512.8	85294.0	8.05	0.406
Smolensk oblast	Birch	453.7	1489.6	60969.4	29304.4	21865.3	1493.9	115576.4	57470.5	8.29	0.436
Smolensk oblast	Aspen	103.7	892.8	4520.3	5393.1	15827.8	11945.5	38683.3	19244.3	8.30	0.353
Smolensk oblast	Shrubs	0.0	0.0	0.0	0.6	16.5	2.8	19.9	9.6	1.28	1.123
Smolensk oblast	Total	5512.3	18196.4	100718.7	65853.1	53633.1	13719.0	257632.4	127931.3	7.39	0.387
Tambov oblast	Coniferous	924.4	4486.7	9886.2	3273.6	1590.5	18.7	20180.1	10023.7	6.17	0.316
Tambov oblast	Pine	907.8	4473.8	9876.2	3265.9	1590.5	18.7	20132.9	10000.4	6.20	0.316
Tambov oblast	Spruce	13.9	0.0	6.9	7.1	0.0	0.0	27.8	13.7	1.71	0.373
Tambov oblast	Larch	2.7	12.7	3.2	0.6	0.0	0.0	19.2	9.5	3.45	0.420
Tambov oblast	Cedar	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.1	2.05	0.342
Tambov oblast	Hard deciduous	324.0	1229.2	7091.9	688.4	506.7	47.5	9887.7	4913.8	7.41	0.546
Tambov oblast	Oak	281.0	1127.6	6926.4	665.2	474.9	44.2	9519.1	4730.7	7.47	0.543
Tambov oblast	Soft deciduous	326.7	1122.2	5395.4	2853.7	2508.8	375.9	12582.8	6252.6	5.29	0.398
Tambov oblast	Birch	125.9	608.5	2950.1	1080.2	588.8	9.3	5362.8	2663.7	5.10	0.451
Tambov oblast	Aspen	143.8	359.9	1456.0	1347.3	1272.8	142.2	4722.0	2347.5	5.72	0.365
Tambov oblast	Other species	0.1	0.1	0.8	0.3	0.0	0.0	1.3	0.6	1.33	0.418
Tambov oblast	Shrubs	0.8	0.1	25.8	0.1	28.0	43.7	98.5	47.8	2.34	1.025
Tambov oblast	Total	1576.0	6838.3	22400.2	6816.0	4634.0	485.8	42750.3	21238.7	6.09	0.376
Tver oblast	Coniferous	9639.0	29439.3	105961.7	66493.7	54628.1	5668.0	271829.9	134574.0	5.81	0.352
Tver oblast	Pine	1203.8	8520.8	72728.3	35094.2	25912.3	4164.8	147624.2	73132.0	6.33	0.341
Tver oblast	Spruce	8426.9	20841.4	33215.6	31398.1	28715.8	1503.3	124101.1	61390.0	5.30	0.367
Tver oblast	Larch	2.9	76.8	17.8	1.4	0.0	0.0	98.8	49.1	4.86	0.436
Tver oblast	Cedar	5.4	0.3	0.0	0.0	0.0	0.0	5.7	2.8	3.01	0.386
Tver oblast	Hard deciduous	1.6	7.1	13.6	6.6	14.6	69.8	113.3	56.3	8.30	0.495
Tver oblast	Oak	0.0	4.5	5.7	5.7	5.0	69.8	90.7	45.1	10.69	0.475
Tver oblast	Soft deciduous	1809.2	5621.9	126822.6	70318.8	72397.9	26381.7	303352.0	150808.7	6.99	0.409
Tver oblast	Birch	1293.0	3087.9	112965.5	53942.7	48317.1	5034.1	224640.2	111666.7	7.14	0.434
Tver oblast	Aspen	461.3	2215.7	7611.7	10573.9	19419.7	20721.4	61003.6	30346.6	7.36	0.352
Tver oblast	Total	11449.7	35068.3	232798.0	136819.2	127040.5	32119.6	575295.2	285439.0	6.38	0.380
Tula oblast	Coniferous	401.5	1003.9	3024.3	410.8	106.0	0.0	4946.6	2451.4	6.56	0.344
Tula oblast	Pine	13.8	274.0	2015.9	73.5	69.4	0.0	2446.6	1215.5	8.66	0.317

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Tula oblast	Spruce	379.2	610.7	788.8	314.7	36.5	0.0	2129.9	1051.6	4.94	0.372
Tula oblast	Larch	8.3	119.2	219.4	22.7	0.1	0.0	369.7	184.1	9.15	0.401
Tula oblast	Cedar	0.2	0.0	0.2	0.0	0.0	0.0	0.4	0.2	3.43	0.343
Tula oblast	Hard deciduous	551.9	2267.3	14266.1	2141.3	1994.9	170.9	21392.4	10639.2	9.82	0.523
Tula oblast	Oak	507.6	1965.0	13050.3	2028.9	1979.0	161.6	19692.3	9793.1	9.66	0.520
Tula oblast	Soft deciduous	77.0	517.2	14351.6	3656.8	7438.5	6519.4	32560.6	16202.3	9.81	0.433
Tula oblast	Birch	29.0	151.1	7548.5	2563.9	2647.5	123.3	13063.4	6495.9	8.13	0.434
Tula oblast	Aspen	35.7	199.7	351.0	435.7	3737.5	4224.0	8983.5	4471.5	9.05	0.344
Tula oblast	Other species	0.0	0.0	0.3	0.0	0.0	0.0	0.4	0.2	1.94	0.485
Tula oblast	Shrubs	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.2	6.40	0.960
Tula oblast	Total	1030.4	3788.4	31642.3	6209.4	9539.5	6690.4	58900.3	29293.4	9.42	0.452
Jaroslavl oblast	Coniferous	4706.0	11607.6	26673.5	18390.2	10029.9	261.7	71668.9	35476.0	5.21	0.350
Jaroslavl oblast	Pine	136.1	3245.1	18597.3	5758.8	2202.6	229.2	30169.2	14950.8	6.65	0.333
Jaroslavl oblast	Spruce	4563.4	8287.9	8067.3	12631.4	7827.3	32.6	41409.8	20480.5	4.50	0.364
Jaroslavl oblast	Fir	0.3	0.1	0.0	0.0	0.0	0.0	0.4	0.2	2.74	0.365
Jaroslavl oblast	Larch	4.6	74.4	8.9	0.0	0.0	0.0	87.9	43.7	5.11	0.440
Jaroslavl oblast	Cedar	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.8	1.80	0.393
Jaroslavl oblast	Hard deciduous	0.6	7.7	159.8	65.1	260.4	118.7	612.2	304.1	9.53	0.489
Jaroslavl oblast	Oak	0.3	7.5	155.9	65.1	260.4	118.7	607.9	302.0	9.54	0.488
Jaroslavl oblast	Soft deciduous	309.9	1731.7	51515.4	35952.8	34111.8	8938.1	132559.8	65899.2	7.18	0.407
Jaroslavl oblast	Birch	225.9	1124.3	46784.2	28340.0	16607.2	904.0	93985.5	46716.3	7.24	0.436
Jaroslavl oblast	Aspen	61.6	471.1	3479.6	6409.2	16226.5	8011.2	34659.2	17240.7	7.69	0.352
Jaroslavl oblast	Shrubs	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.2	2.08	1.039
Jaroslavl oblast	Total	5016.5	13347.0	78348.7	54408.2	44402.5	9318.5	204841.3	101679.5	6.35	0.386
Republic Karelia	Coniferous	19194.0	85571.1	167980.2	85039.0	139598.3	172438.0	669820.6	330404.5	3.92	0.396
Republic Karelia	Pine	13204.0	71250.0	121961.2	51514.6	79054.3	97752.4	434736.4	214262.4	3.53	0.391
Republic Karelia	Spruce	5965.2	14288.1	46008.2	33511.9	60542.1	74685.3	235000.7	116100.8	4.95	0.405
Republic Karelia	Fir	0.8	0.0	0.1	0.0	0.0	0.0	0.8	0.4	1.59	0.459
Republic Karelia	Larch	9.7	32.7	10.8	12.6	2.0	0.3	68.0	33.8	3.02	0.460
Republic Karelia	Cedar	14.3	0.3	0.0	0.0	0.0	0.0	14.6	7.1	1.37	0.450
Republic Karelia	Hard deciduous	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.5	7.52	0.645
Republic Karelia	Oak	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.5	7.52	0.645
Republic Karelia	Soft deciduous	842.3	2632.7	35247.3	16525.0	28043.2	14142.2	97432.7	48331.9	4.55	0.435
Republic Karelia	Birch	808.9	2391.2	34382.5	15259.8	25156.8	10744.4	88743.7	44016.3	4.49	0.447
Republic Karelia	Aspen	29.2	176.9	502.9	741.3	2263.1	3375.9	7089.2	3523.0	5.91	0.346
Republic Karelia	Total	20036.3	88203.7	203228.4	101564.0	167641.5	186580.3	767254.2	378736.9	3.99	0.400
Republic Komi	Coniferous	14290.6	65003.1	273843.7	160118.4	831486.0	836279.9	2181021.7	1074197.1	4.40	0.429

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Republic Komi	Pine	6558.1	45460.5	182374.5	49966.4	128207.6	133752.1	546319.1	268954.0	3.72	0.402
Republic Komi	Spruce	7580.5	19498.0	87919.4	105710.0	684947.4	683363.4	1589018.8	782669.2	4.68	0.441
Republic Komi	Fir	8.8	19.0	1387.4	2167.9	10561.7	5711.8	19856.6	9778.7	4.68	0.360
Republic Komi	Larch	28.3	22.6	1503.4	1085.4	5705.1	13263.1	21607.9	10712.0	5.48	0.468
Republic Komi	Cedar	115.0	3.0	659.0	1188.8	2064.1	189.5	4219.4	2083.1	5.22	0.386
Republic Komi	Soft deciduous	6884.0	14896.1	109969.3	42192.9	85378.7	158431.1	417752.2	206718.6	3.76	0.445
Republic Komi	Birch	5546.6	11944.9	104563.1	40313.9	78643.0	106905.1	347916.6	172019.0	3.54	0.471
Republic Komi	Aspen	1331.0	2840.7	4107.6	1713.9	6575.6	51477.5	68046.3	33819.9	5.80	0.347
Republic Komi	Other species	0.0	0.0	0.0	0.6	0.7	0.0	1.3	0.7	2.12	0.598
Republic Komi	Shrubs	24.0	47.6	1217.3	117.7	18.4	1.1	1426.1	646.3	0.25	10.718
Republic Komi	Total	21198.6	79946.8	385030.3	202429.7	916883.8	994712.1	2600201.3	1281562.6	4.25	0.432
Arkhangelsk oblast	Coniferous	16979.0	64919.8	222166.3	87862.6	461269.0	1002345.8	1855542.4	915420.3	4.88	0.419
Arkhangelsk oblast	Pine	4747.8	35980.7	142829.6	42888.6	100406.6	182755.0	509608.4	251045.9	4.11	0.400
Arkhangelsk oblast	Spruce	12214.0	28907.2	78986.0	44822.0	360335.8	811273.6	1336538.6	659707.1	5.25	0.426
Arkhangelsk oblast	Fir	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.5	7.55	0.323
Arkhangelsk oblast	Larch	11.7	20.6	350.5	151.9	525.5	8317.2	9377.5	4658.6	7.54	0.444
Arkhangelsk oblast	Cedar	5.5	11.3	0.1	0.0	0.0	0.0	16.9	8.3	1.35	0.450
Arkhangelsk oblast	Soft deciduous	7703.2	22469.3	130223.6	34747.9	57712.1	38018.9	290875.1	144033.6	3.27	0.454
Arkhangelsk oblast	Birch	7167.9	20936.3	125783.6	31358.2	51537.2	26200.9	262984.2	130183.1	3.15	0.468
Arkhangelsk oblast	Aspen	533.8	1508.4	4246.9	3341.3	6116.5	11818.0	27564.9	13688.9	5.19	0.355
Arkhangelsk oblast	Shrubs	0.0	1.2	1.8	0.0	0.0	0.0	3.0	1.4	0.85	1.260
Arkhangelsk oblast	Total	24682.2	87390.4	352391.6	122610.5	518981.1	1040364.7	2146420.5	1059455.3	4.58	0.423
Vologda oblast	Coniferous	14872.7	41247.4	182088.4	92283.3	203311.8	115063.3	648866.9	320881.2	5.42	0.384
Vologda oblast	Pine	2135.1	13389.8	117029.3	45793.8	73925.9	39841.1	292114.8	144395.5	5.46	0.371
Vologda oblast	Spruce	12723.8	27805.4	64950.6	46489.5	129385.9	75222.3	356577.5	176398.9	5.38	0.394
Vologda oblast	Larch	13.1	44.5	107.8	0.0	0.0	0.0	165.4	82.2	4.00	0.433
Vologda oblast	Cedar	0.7	7.8	0.7	0.0	0.0	0.0	9.2	4.5	2.69	0.402
Vologda oblast	Hard deciduous	0.0	2.0	0.0	0.0	9.7	6.2	17.8	8.9	6.88	0.705
Vologda oblast	Oak	0.0	2.0	0.0	0.0	0.0	0.0	2.0	1.0	3.96	0.792
Vologda oblast	Soft deciduous	6522.2	18381.7	142212.2	105464.7	262025.2	98839.8	633445.8	314805.2	6.09	0.411
Vologda oblast	Birch	4809.0	13407.2	134165.6	99576.8	229148.1	35761.6	516868.2	256850.5	6.20	0.429
Vologda oblast	Aspen	1633.0	4758.5	7328.1	5077.5	29213.9	61614.4	109625.3	54505.8	5.81	0.346
Vologda oblast	Total	21394.8	59631.1	324300.5	197748.0	465346.7	213909.4	1282330.5	635695.2	5.73	0.397
Kaliningrad oblast	Coniferous	767.6	3267.1	4468.5	1160.4	637.8	76.4	10377.8	5131.2	5.43	0.353
Kaliningrad oblast	Pine	98.2	1987.1	1701.5	693.0	563.2	69.7	5112.8	2532.2	5.63	0.333
Kaliningrad oblast	Spruce	667.7	1271.9	2741.8	466.6	70.7	5.8	5224.5	2578.9	5.24	0.375
Kaliningrad oblast	Fir	0.1	0.0	0.5	0.2	0.0	0.0	0.8	0.4	4.41	0.272

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Kaliningrad oblast	Larch	1.5	8.0	24.7	0.6	3.9	0.9	39.5	19.7	8.07	0.404
Kaliningrad oblast	Cedar	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.1	2.52	0.378
Kaliningrad oblast	Hard deciduous	158.6	1254.9	7283.4	1493.8	432.9	72.4	10696.1	5322.8	10.85	0.542
Kaliningrad oblast	Oak	132.3	999.4	4886.3	1180.6	293.8	54.4	7546.8	3755.3	10.86	0.538
Kaliningrad oblast	Soft deciduous	89.2	246.1	10631.7	2758.5	2479.6	447.8	16652.9	8277.8	6.82	0.416
Kaliningrad oblast	Birch	48.5	130.7	7258.7	1565.6	895.2	29.9	9928.6	4935.9	7.75	0.441
Kaliningrad oblast	Aspen	1.9	6.7	294.1	120.7	291.6	136.2	851.1	423.3	7.31	0.359
Kaliningrad oblast	Other species	0.0	1.0	0.6	0.0	0.0	0.0	1.6	0.8	4.57	0.373
Kaliningrad oblast	Shrubs	0.2	5.8	0.2	0.0	0.0	0.0	6.3	3.1	3.56	0.989
Kaliningrad oblast	Total	1015.7	4774.9	22384.4	5412.8	3550.3	596.6	37734.7	18735.7	7.07	0.423
Leningrad oblast	Coniferous	10198.7	29946.8	97848.8	116136.4	128910.9	11918.0	394959.7	195485.3	6.30	0.365
Leningrad oblast	Pine	1613.7	11826.8	66325.1	62312.7	57931.4	4979.6	204989.3	101474.6	5.99	0.354
Leningrad oblast	Spruce	8552.5	18033.7	31497.8	53819.6	70977.2	6924.2	189805.1	93928.6	6.68	0.378
Leningrad oblast	Fir	0.0	3.6	0.0	0.0	0.0	0.0	3.6	1.8	3.40	0.349
Leningrad oblast	Larch	23.8	82.1	25.6	4.1	2.2	14.2	152.2	75.6	4.15	0.450
Leningrad oblast	Cedar	8.7	0.6	0.3	0.0	0.0	0.0	9.6	4.7	1.70	0.412
Leningrad oblast	Hard deciduous	3.0	7.2	21.4	11.2	24.3	23.3	90.5	45.0	9.06	0.561
Leningrad oblast	Oak	2.0	7.1	16.5	7.9	24.3	23.3	81.1	40.3	9.37	0.559
Leningrad oblast	Soft deciduous	825.6	3889.1	60812.1	47987.2	82455.5	41740.2	237709.6	118167.7	7.60	0.408
Leningrad oblast	Birch	576.2	2719.6	57223.4	41251.0	63818.5	13267.1	178855.8	88889.3	7.51	0.435
Leningrad oblast	Aspen	212.5	939.4	2478.0	4967.1	16086.1	28232.8	52916.0	26330.8	8.46	0.344
Leningrad oblast	Total	11027.3	33843.1	158682.2	164134.9	211390.7	53681.5	632759.7	313698.0	6.74	0.380
Murmansk oblast	Coniferous	1944.5	15554.8	38602.5	10908.9	50410.2	80626.8	198047.7	96724.1	2.48	0.486
Murmansk oblast	Pine	1577.2	14355.1	34247.8	4324.1	16369.3	35720.8	106594.2	52030.9	2.25	0.465
Murmansk oblast	Spruce	366.2	1187.1	4353.7	6584.7	34040.9	44906.0	91438.6	44685.8	2.81	0.512
Murmansk oblast	Larch	1.0	11.3	0.3	0.0	0.0	0.0	12.6	6.2	1.48	0.625
Murmansk oblast	Cedar	0.2	1.3	0.8	0.0	0.0	0.0	2.3	1.1	2.41	0.479
Murmansk oblast	Soft deciduous	296.3	1162.2	19128.9	3122.5	9703.7	10037.1	43450.7	21068.1	1.45	0.651
Murmansk oblast	Birch	295.8	1161.8	19118.7	3107.1	9702.2	10036.3	43422.0	21054.0	1.45	0.651
Murmansk oblast	Aspen	0.5	0.4	10.1	15.4	1.5	0.8	28.8	14.2	2.73	0.417
Murmansk oblast	Total	2240.8	16717.0	57731.4	14031.4	60113.9	90663.9	241498.4	117792.2	2.20	0.509
Novgorod oblast	Coniferous	4753.8	14694.5	50619.9	47469.6	46411.0	2800.4	166749.1	82524.9	6.31	0.365
Novgorod oblast	Pine	375.1	3901.4	30661.9	25411.1	17837.6	1505.0	79692.3	39441.7	5.89	0.354
Novgorod oblast	Spruce	4374.3	10726.8	19955.6	22057.5	28573.4	1294.3	86981.9	43045.9	6.75	0.376
Novgorod oblast	Larch	3.3	66.3	2.3	1.0	0.0	1.0	73.9	36.7	5.11	0.453
Novgorod oblast	Cedar	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.5	1.24	0.404
Novgorod oblast	Hard deciduous	0.8	31.8	364.5	145.5	88.6	3.8	634.9	315.6	9.71	0.581

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Novgorod oblast	Oak	0.1	5.9	292.4	143.4	82.3	3.6	527.7	262.2	9.95	0.568
Novgorod oblast	Soft deciduous	1101.2	3811.4	80125.2	74662.5	120836.1	36029.0	316565.4	157318.4	7.16	0.407
Novgorod oblast	Birch	717.9	2072.3	72012.1	56663.6	83782.2	6772.5	222020.5	110329.9	7.52	0.438
Novgorod oblast	Aspen	205.4	724.4	2361.0	6879.1	23072.7	28061.9	61304.5	30493.1	8.01	0.349
Novgorod oblast	Shrubs	1.1	0.0	64.3	57.2	20.3	0.7	143.6	69.4	1.50	1.090
Novgorod oblast	Total	5856.9	18537.6	131173.8	122334.8	167356.0	38834.0	484093.0	240228.3	6.84	0.391
Pskov oblast	Coniferous	4088.9	13763.1	53084.7	40802.4	21731.9	878.3	134349.3	66471.7	5.50	0.358
Pskov oblast	Pine	1046.5	7977.3	47798.9	31826.2	13337.6	481.9	102468.5	50709.3	5.50	0.352
Pskov oblast	Spruce	3035.9	5764.3	5269.7	8974.1	8394.3	395.9	31834.1	15739.2	5.50	0.383
Pskov oblast	Larch	4.8	21.5	16.0	2.2	0.0	0.5	44.9	22.3	5.34	0.445
Pskov oblast	Cedar	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.9	3.11	0.396
Pskov oblast	Hard deciduous	1.1	24.1	261.2	74.4	12.2	25.9	398.9	198.3	8.88	0.560
Pskov oblast	Oak	0.5	16.9	195.5	70.3	12.2	25.9	321.3	159.7	8.85	0.555
Pskov oblast	Soft deciduous	1077.9	1603.3	34097.4	31456.9	43072.4	17576.3	128884.3	64048.9	7.01	0.409
Pskov oblast	Birch	585.6	840.9	29707.5	25448.2	31830.4	3832.4	92245.0	45835.1	7.19	0.439
Pskov oblast	Aspen	382.1	489.8	2016.8	2702.7	6534.9	12811.4	24937.7	12403.2	7.60	0.351
Pskov oblast	Total	5168.0	15390.5	87443.3	72333.8	64816.5	18480.4	263632.4	130718.9	6.15	0.382
Nenetsk autonomous okrug	Coniferous	0.0	17.9	469.5	394.4	7505.9	7916.7	16304.4	8019.7	4.39	0.450
Nenetsk autonomous okrug	Pine	0.0	17.9	312.1	127.8	1303.0	351.3	2112.1	1038.2	4.08	0.425
Nenetsk autonomous okrug	Spruce	0.0	0.0	157.4	266.6	6166.5	7545.2	14135.8	6953.4	4.43	0.454
Nenetsk autonomous okrug	Larch	0.0	0.0	0.0	0.0	36.4	20.2	56.5	28.1	9.12	0.449
Nenetsk autonomous okrug	Soft deciduous	0.0	4.2	39.7	0.0	6.2	318.8	368.9	181.2	2.57	0.508
Nenetsk autonomous okrug	Birch	0.0	4.2	39.7	0.0	6.2	318.8	368.9	181.2	2.57	0.508
Nenetsk autonomous okrug	Total	0.0	22.1	509.2	394.4	7512.1	8235.5	16673.3	8200.9	4.32	0.451
Republic Adygeja	Coniferous	24.9	81.5	409.8	1417.3	7082.0	7866.7	16882.3	8383.3	13.25	0.294
Republic Adygeja	Pine	4.8	60.2	169.4	143.0	401.1	81.1	859.7	425.8	7.39	0.354
Republic Adygeja	Spruce	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.4	1.04	0.457
Republic Adygeja	Fir	19.3	21.1	240.4	1274.4	6680.8	7785.6	16021.5	7957.0	13.84	0.291
Republic Adygeja	Larch	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.1	8.57	0.429
Republic Adygeja	Hard deciduous	463.6	2289.6	14190.2	4536.0	14059.2	8993.7	44532.4	22167.2	12.11	0.548
Republic Adygeja	Oak	359.1	1455.7	6611.7	1360.1	2742.9	1315.1	13844.6	6883.5	9.20	0.509
Republic Adygeja	Soft deciduous	13.5	104.8	706.5	392.9	593.3	583.5	2394.6	1189.1	5.29	0.373
Republic Adygeja	Birch	0.3	2.5	160.5	9.3	96.3	23.2	292.1	144.5	3.08	0.471
Republic Adygeja	Aspen	5.1	42.0	101.8	238.9	294.7	77.5	760.1	378.0	6.47	0.357
Republic Adygeja	Other species	63.8	628.1	143.1	85.0	186.9	72.2	1179.1	586.3	8.00	0.597
Republic Adygeja	Shrubs	0.1	4.7	5.0	0.1	0.0	4.3	14.2	6.7	0.41	2.070
Republic Adygeja	Total	566.0	3108.7	15454.7	6431.4	21921.4	17520.4	65002.7	32332.7	11.64	0.442

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Republic Dagestan	Coniferous	39.1	302.7	6313.5	895.9	430.7	6.3	7988.2	3948.9	5.45	0.373
Republic Dagestan	Pine	39.1	302.7	6313.5	895.9	430.7	6.3	7988.2	3948.9	5.45	0.373
Republic Dagestan	Hard deciduous	179.3	1147.0	24746.3	3476.7	2010.6	531.5	32091.4	15941.9	6.93	0.628
Republic Dagestan	Oak	58.4	270.9	8659.7	972.8	528.8	186.3	10676.9	5283.9	4.18	0.541
Republic Dagestan	Soft deciduous	21.3	51.8	3511.0	1224.7	1084.7	703.7	6597.3	3264.3	4.21	0.495
Republic Dagestan	Birch	1.4	16.7	2284.7	939.9	767.6	161.5	4171.7	2061.7	3.75	0.509
Republic Dagestan	Aspen	2.0	5.9	161.3	74.2	82.2	27.9	353.5	175.1	4.28	0.388
Republic Dagestan	Other species	23.8	47.0	48.9	3.6	1.8	0.0	125.2	61.9	2.30	0.725
Republic Dagestan	Shrubs	42.8	14.3	17.2	23.5	5.6	237.9	341.3	164.8	1.34	1.113
Republic Dagestan	Total	306.3	1562.8	34637.0	5624.5	3533.5	1479.4	47143.4	23381.9	5.92	0.546
Ingushetia Republic	Coniferous	3.0	24.5	467.4	89.7	23.4	0.0	608.0	300.0	4.79	0.387
Ingushetia Republic	Pine	3.0	24.5	467.4	89.7	23.4	0.0	608.0	300.0	4.79	0.387
Ingushetia Republic	Hard deciduous	68.2	802.7	5273.7	1661.9	2652.9	244.1	10703.5	5326.5	10.99	0.604
Ingushetia Republic	Oak	4.7	48.0	182.0	61.7	30.7	11.1	338.3	167.9	6.67	0.569
Ingushetia Republic	Soft deciduous	0.0	0.3	745.2	485.2	707.0	103.9	2041.6	1011.2	5.23	0.560
Ingushetia Republic	Birch	0.0	0.1	227.8	207.0	300.4	22.9	758.2	374.3	3.61	0.510
Ingushetia Republic	Aspen	0.0	0.0	24.7	35.4	0.0	0.0	60.2	29.7	3.28	0.405
Ingushetia Republic	Other species	1.6	0.7	1.1	0.1	1.0	1.5	6.1	3.0	4.05	0.769
Ingushetia Republic	Shrubs	0.0	0.0	0.0	0.0	0.3	209.2	209.5	102.0	3.23	0.996
Ingushetia Republic	Total	72.9	828.2	6487.3	2237.0	3384.6	558.8	13568.7	6742.7	8.72	0.586
Kabardino-Balkaria Republic	Coniferous	2.6	18.1	398.3	313.3	597.6	201.3	1531.1	756.6	6.07	0.389
Kabardino-Balkaria Republic	Pine	2.6	18.1	398.3	313.3	597.6	201.3	1531.1	756.6	6.07	0.389
Kabardino-Balkaria Republic	Hard deciduous	174.0	936.6	14055.9	3330.6	8084.0	2099.5	28680.6	14274.7	11.84	0.583
Kabardino-Balkaria Republic	Oak	77.8	85.3	888.1	369.1	344.3	49.0	1813.6	899.9	6.36	0.475
Kabardino-Balkaria Republic	Soft deciduous	21.6	70.8	2491.5	1560.6	2153.4	1743.0	8040.9	3981.2	4.51	0.413
Kabardino-Balkaria Republic	Birch	1.7	3.7	1302.2	848.0	1016.1	229.6	3401.3	1677.6	3.29	0.514
Kabardino-Balkaria Republic	Aspen	0.6	2.3	194.7	74.0	116.3	12.2	400.1	198.1	4.52	0.391
Kabardino-Balkaria Republic	Other species	22.2	169.1	31.8	9.8	3.2	6.5	242.7	120.5	5.46	0.753
Kabardino-Balkaria Republic	Shrubs	2.5	17.6	90.0	25.1	46.2	0.0	181.4	88.3	2.97	1.003
Kabardino-Balkaria Republic	Total	222.9	1212.2	17067.5	5239.5	10884.4	4050.3	38676.7	19221.3	8.48	0.529
Kalmik Republic	Coniferous	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.383
Kalmik Republic	Pine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.383
Kalmik Republic	Hard deciduous	8.2	13.7	58.2	26.1	64.5	72.5	243.1	119.8	2.33	0.630
Kalmik Republic	Oak	3.8	2.9	23.9	13.1	43.1	30.0	116.8	57.5	2.79	0.540
Kalmik Republic	Soft deciduous	0.0	11.9	1.4	9.2	11.6	9.9	44.2	21.8	3.40	0.409
Kalmik Republic	Other species	0.1	0.8	5.2	5.3	8.6	1.3	21.3	10.5	2.72	0.778
Kalmik Republic	Shrubs	0.8	13.4	36.3	18.7	17.0	25.0	111.1	53.3	0.89	1.242

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Kalmik Republic	Total	9.2	39.8	101.1	59.3	101.8	108.7	419.7	205.4	1.69	0.685
Karachaevo-Cherkessia Republic	Coniferous	55.5	288.7	8159.6	5031.4	8774.1	5187.6	27496.9	13640.9	10.94	0.330
Karachaevo-Cherkessia Republic	Pine	27.8	179.4	5950.5	2825.5	3064.8	977.8	13025.8	6452.9	7.58	0.358
Karachaevo-Cherkessia Republic	Spruce	20.4	30.6	832.4	1189.9	1302.7	1826.3	5202.3	2585.6	20.44	0.345
Karachaevo-Cherkessia Republic	Fir	7.2	78.7	1376.7	1016.0	4406.6	2383.5	9268.8	4602.4	17.13	0.291
Karachaevo-Cherkessia Republic	Hard deciduous	100.8	381.9	11674.3	4910.7	9311.6	7830.3	34209.7	17028.2	12.53	0.574
Karachaevo-Cherkessia Republic	Oak	0.8	7.4	1664.6	844.5	1377.5	640.9	4535.7	2250.3	6.93	0.474
Karachaevo-Cherkessia Republic	Soft deciduous	26.1	99.4	2789.0	2687.7	5817.8	4116.3	15536.3	7702.1	5.35	0.423
Karachaevo-Cherkessia Republic	Birch	9.0	46.5	1877.9	1649.8	3184.2	3518.1	10285.4	5094.2	5.02	0.468
Karachaevo-Cherkessia Republic	Aspen	11.0	29.2	308.4	228.4	944.4	360.5	1882.0	934.9	6.43	0.361
Karachaevo-Cherkessia Republic	Other species	7.0	5.4	42.9	0.4	6.3	0.8	62.8	31.1	5.14	0.728
Karachaevo-Cherkessia Republic	Shrubs	7.7	13.1	2.7	4.1	0.0	41.0	68.6	33.0	1.14	1.155
Karachaevo-Cherkessia Republic	Total	197.1	788.5	22668.5	12634.2	23909.8	17176.1	77374.3	38435.3	9.42	0.430
Republic Severnaja Osetia - Alania	Coniferous	4.1	49.7	620.3	49.5	29.2	8.3	761.0	375.2	4.04	0.388
Republic Severnaja Osetia - Alania	Pine	4.1	49.4	620.3	49.5	29.2	8.3	760.8	375.1	4.04	0.388
Republic Severnaja Osetia - Alania	Spruce	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.1	3.94	0.394
Republic Severnaja Osetia - Alania	Hard deciduous	242.9	862.0	18269.1	4279.2	6219.9	2519.4	32392.5	16120.9	11.49	0.575
Republic Severnaja Osetia - Alania	Oak	54.5	54.5	613.1	92.9	40.2	0.3	855.5	424.0	4.57	0.540
Republic Severnaja Osetia - Alania	Soft deciduous	7.7	51.9	1076.0	662.3	688.1	91.9	2578.0	1275.9	3.87	0.475
Republic Severnaja Osetia - Alania	Birch	0.0	5.1	396.3	225.4	273.9	30.5	931.1	459.2	2.83	0.510
Republic Severnaja Osetia - Alania	Aspen	0.0	0.0	4.6	3.3	0.3	0.0	8.2	4.1	2.76	0.401
Republic Severnaja Osetia - Alania	Other species	4.3	20.1	15.3	17.5	0.0	1.7	58.8	29.2	4.94	0.647
Republic Severnaja Osetia - Alania	Shrubs	1.0	30.4	56.2	1.7	64.7	6.6	160.6	78.1	2.85	1.006
Republic Severnaja Osetia - Alania	Total	260.0	1014.1	20036.9	5010.1	7001.9	2627.9	35951.0	17879.3	9.62	0.562
Chechnja Republic	Coniferous	4.6	35.2	114.4	0.0	0.0	0.0	154.3	75.9	3.00	0.403
Chechnja Republic	Pine	4.6	35.2	114.4	0.0	0.0	0.0	154.3	75.9	3.00	0.403
Chechnja Republic	Hard deciduous	265.7	1619.9	32114.3	4953.1	6946.0	2510.1	48409.1	24088.6	10.15	0.589
Chechnja Republic	Oak	42.5	290.7	2171.9	542.1	282.3	17.9	3347.5	1659.1	5.03	0.525
Chechnja Republic	Soft deciduous	10.4	159.6	2793.4	579.0	782.0	159.3	4483.8	2219.3	3.87	0.472
Chechnja Republic	Birch	0.0	54.1	1583.5	95.8	36.6	0.0	1770.0	874.0	3.16	0.527
Chechnja Republic	Aspen	0.0	0.1	156.9	20.6	3.1	0.4	181.0	89.6	3.74	0.406
Chechnja Republic	Other species	87.2	58.3	48.4	20.0	16.1	13.2	243.3	120.4	2.73	0.719
Chechnja Republic	Shrubs	0.0	11.7	2.0	7.6	12.6	139.7	173.6	84.5	2.74	1.009
Chechnja Republic	Total	368.0	1884.8	35072.6	5559.7	7756.8	2822.2	53464.1	26588.6	8.73	0.578
Krasnodar Kray	Coniferous	464.6	1279.0	1599.2	3192.1	17934.3	26037.5	50506.6	25103.8	21.21	0.281
Krasnodar Kray	Pine	378.0	1103.2	843.7	324.6	809.5	509.6	3968.5	1964.9	4.86	0.340
Krasnodar Kray	Spruce	3.9	0.7	143.0	266.4	989.7	425.3	1828.9	908.6	16.68	0.335

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Krasnodar Kray	Fir	82.6	174.7	597.9	2576.4	16077.1	25094.3	44603.0	22178.5	31.63	0.275
Krasnodar Kray	Hard deciduous	1780.7	10430.0	79602.2	49612.1	103732.5	42367.8	287525.2	143079.7	12.25	0.542
Krasnodar Kray	Oak	1375.6	7425.0	42827.4	25738.6	53285.6	6726.2	137378.4	68273.7	9.65	0.511
Krasnodar Kray	Soft deciduous	54.3	293.6	2183.6	1226.6	2940.6	3257.0	9955.5	4946.0	6.07	0.364
Krasnodar Kray	Birch	2.9	11.0	407.5	114.8	381.5	297.9	1215.6	602.5	4.31	0.455
Krasnodar Kray	Aspen	29.0	143.7	271.5	512.3	1171.7	448.1	2576.4	1280.9	6.55	0.357
Krasnodar Kray	Other species	253.2	1979.3	1471.3	702.9	6866.6	8422.8	19696.0	9804.1	12.99	0.540
Krasnodar Kray	Shrubs	1.2	20.2	14.2	10.6	2.5	46.4	95.2	45.2	0.62	1.455
Krasnodar Kray	Total	2553.9	14002.1	84870.5	54744.2	131476.5	80131.4	367778.5	182978.8	12.62	0.475
Stavropol Kray	Coniferous	22.1	146.7	1.1	0.0	0.0	0.0	169.9	83.7	2.41	0.352
Stavropol Kray	Pine	22.1	146.7	1.1	0.0	0.0	0.0	169.9	83.7	2.41	0.352
Stavropol Kray	Larch	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.526
Stavropol Kray	Hard deciduous	94.4	489.5	7250.2	1817.3	1077.8	126.6	10855.9	5392.9	6.86	0.569
Stavropol Kray	Oak	26.3	251.0	1972.7	657.1	515.5	86.9	3509.5	1741.5	6.25	0.482
Stavropol Kray	Soft deciduous	9.0	24.2	242.3	97.3	90.5	206.0	669.4	332.2	5.19	0.378
Stavropol Kray	Birch	3.7	1.7	7.3	2.6	0.0	0.0	15.3	7.6	2.34	0.503
Stavropol Kray	Aspen	0.0	0.3	4.7	4.4	1.2	1.3	11.9	5.9	7.07	0.368
Stavropol Kray	Other species	21.3	76.8	250.6	245.1	21.2	0.1	615.1	305.4	4.80	0.809
Stavropol Kray	Shrubs	25.3	14.7	27.8	6.5	9.7	23.5	107.5	51.9	1.27	1.126
Stavropol Kray	Total	172.1	752.0	7772.1	2166.2	1199.2	356.3	12417.8	6166.0	6.23	0.560
Astrakhan oblast	Coniferous	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.66	0.332
Astrakhan oblast	Pine	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.66	0.332
Astrakhan oblast	Hard deciduous	34.4	99.9	450.0	370.7	167.4	175.0	1297.4	642.1	3.96	0.609
Astrakhan oblast	Oak	5.9	17.2	87.7	40.1	18.6	2.4	172.0	85.1	4.21	0.540
Astrakhan oblast	Soft deciduous	18.2	81.0	1318.8	873.3	1344.9	1141.9	4778.1	2362.8	3.83	0.404
Astrakhan oblast	Aspen	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	3.88	0.388
Astrakhan oblast	Other species	0.1	0.5	0.7	0.8	4.0	9.6	15.6	7.7	1.66	0.614
Astrakhan oblast	Shrubs	2.3	2.3	29.0	61.5	270.1	93.6	458.8	221.2	1.22	1.137
Astrakhan oblast	Total	55.1	183.7	1798.5	1306.3	1786.4	1420.0	6550.1	3233.8	3.35	0.455
Volgograd oblast	Coniferous	448.1	1470.5	999.3	7.0	0.0	0.2	2925.0	1446.3	2.29	0.342
Volgograd oblast	Pine	448.1	1469.5	999.3	7.0	0.0	0.2	2924.0	1445.7	2.29	0.342
Volgograd oblast	Larch	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.5	4.25	0.472
Volgograd oblast	Hard deciduous	506.6	2026.0	12374.8	4347.5	3239.0	444.0	22937.9	11349.6	3.84	0.553
Volgograd oblast	Oak	286.1	1315.8	9815.9	3549.6	2954.4	135.7	18057.6	8937.6	4.15	0.521
Volgograd oblast	Soft deciduous	64.7	168.4	1206.7	1132.5	2006.2	2493.4	7072.0	3505.0	4.38	0.379
Volgograd oblast	Birch	8.5	20.5	117.9	93.6	72.2	7.6	320.2	158.3	3.25	0.484
Volgograd oblast	Aspen	12.5	19.0	236.9	177.5	204.3	394.9	1045.1	518.2	3.99	0.368

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Volgograd oblast	Other species	4.2	5.2	46.7	0.7	0.4	0.0	57.3	28.0	0.99	0.538
Volgograd oblast	Shrubs	1.4	5.6	11.2	15.7	65.9	771.7	871.6	422.4	1.79	1.060
Volgograd oblast	Total	1025.0	3675.8	14638.8	5503.4	5311.5	3709.2	33863.8	16751.2	3.60	0.486
Rostov oblast	Coniferous	274.2	2251.7	530.7	2.8	1.2	0.0	3060.6	1512.3	2.09	0.343
Rostov oblast	Pine	274.2	2251.7	530.7	2.8	1.2	0.0	3060.6	1512.3	2.09	0.343
Rostov oblast	Hard deciduous	379.7	2850.6	5032.7	1032.0	720.6	166.3	10181.9	5045.5	3.74	0.624
Rostov oblast	Oak	125.5	2156.4	3260.7	187.2	288.3	140.8	6158.8	3051.3	3.87	0.575
Rostov oblast	Soft deciduous	58.0	138.9	1038.6	382.3	273.1	214.8	2105.7	1044.3	4.49	0.392
Rostov oblast	Birch	3.0	17.8	150.5	8.9	0.0	0.0	180.2	89.3	4.06	0.479
Rostov oblast	Aspen	4.9	20.8	82.8	11.2	5.0	1.7	126.5	62.7	3.93	0.392
Rostov oblast	Other species	8.4	10.0	35.1	48.9	13.3	0.8	116.5	57.4	1.80	0.443
Rostov oblast	Shrubs	2.8	1.6	2.2	6.9	20.5	302.6	336.6	163.0	1.69	1.069
Rostov oblast	Total	723.2	5252.8	6639.4	1472.9	1028.6	684.4	15801.3	7822.6	3.22	0.506
Republic Bashkortostan	Coniferous	7047.8	21026.6	34077.9	29274.0	38839.5	2696.3	132962.1	65844.6	5.15	0.346
Republic Bashkortostan	Pine	3902.7	14026.7	22187.3	21609.3	29153.3	1003.6	91882.9	45515.0	5.38	0.341
Republic Bashkortostan	Spruce	2927.4	5456.3	5524.9	4469.4	6838.4	990.0	26206.4	12949.9	4.32	0.381
Republic Bashkortostan	Fir	86.8	436.8	4590.2	2153.3	1552.5	52.1	8871.6	4392.2	5.12	0.287
Republic Bashkortostan	Larch	117.5	1106.2	1775.2	1042.0	1295.4	650.6	5986.9	2980.4	6.18	0.398
Republic Bashkortostan	Cedar	13.4	0.6	0.2	0.0	0.0	0.0	14.3	7.0	3.27	0.389
Republic Bashkortostan	Hard deciduous	193.1	1029.6	15558.0	8431.4	12018.3	33978.6	71209.0	35288.8	6.76	0.560
Republic Bashkortostan	Oak	87.6	357.5	10250.6	7284.7	8917.1	10057.3	36954.8	18310.2	6.15	0.510
Republic Bashkortostan	Soft deciduous	4144.2	12056.2	132229.9	85092.5	172769.3	119512.9	525805.0	261176.2	7.14	0.479
Republic Bashkortostan	Birch	1042.7	1806.4	41874.9	33042.3	66513.5	38665.2	182944.9	90788.6	6.30	0.446
Republic Bashkortostan	Aspen	1882.5	4773.6	10373.4	12824.7	23159.9	35076.2	88090.3	43733.8	5.13	0.363
Republic Bashkortostan	Other species	0.2	1.4	18.4	26.9	28.8	17.4	93.1	45.9	1.67	0.531
Republic Bashkortostan	Shrubs	0.4	0.0	6.3	3.7	348.1	87.3	445.9	215.9	1.69	1.069
Republic Bashkortostan	Total	11385.6	34113.8	181890.5	122828.5	224004.1	156292.5	730515.0	362571.4	6.62	0.454
Republic Mariy El	Coniferous	3697.1	9114.4	31157.3	13067.7	8148.1	838.4	66023.0	32690.7	4.99	0.339
Republic Mariy El	Pine	2618.3	8037.4	26653.2	9202.8	4802.5	642.5	51956.8	25725.0	4.95	0.334
Republic Mariy El	Spruce	1060.4	1001.8	4447.3	3840.0	3340.8	195.9	13886.1	6876.3	5.18	0.356
Republic Mariy El	Fir	0.2	1.3	45.6	23.3	3.7	0.0	74.0	36.7	5.78	0.256
Republic Mariy El	Larch	16.5	73.1	11.2	1.7	1.1	0.0	103.4	51.4	3.57	0.429
Republic Mariy El	Cedar	1.8	0.8	0.1	0.0	0.0	0.0	2.7	1.3	1.98	0.371
Republic Mariy El	Hard deciduous	31.4	59.7	1065.1	465.7	604.5	176.6	2403.0	1194.1	9.75	0.555
Republic Mariy El	Oak	24.2	41.7	1057.5	464.0	604.5	176.6	2368.4	1176.9	9.87	0.554
Republic Mariy El	Soft deciduous	797.7	7612.8	38264.0	15302.3	17175.9	6546.2	85698.9	42599.7	6.91	0.447
Republic Mariy El	Birch	525.9	6303.4	29729.9	10475.6	8650.8	1058.1	56743.8	28195.8	6.32	0.444

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Republic Mariy El	Aspen	108.0	456.3	1464.5	2005.6	2287.7	2479.6	8801.7	4376.3	6.59	0.359
Republic Mariy El	Shrubs	0.0	0.0	0.0	0.0	13.7	0.0	13.7	6.7	3.37	0.993
Republic Mariy El	Total	4526.2	16786.9	70486.4	28835.8	25942.1	7561.1	154138.5	76491.2	5.96	0.394
Republic Mordovia	Coniferous	1342.6	5061.2	13645.7	5318.1	1877.0	115.7	27360.3	13560.0	5.67	0.328
Republic Mordovia	Pine	1210.2	4950.4	13382.0	5170.5	1761.7	111.7	26586.5	13177.1	5.83	0.327
Republic Mordovia	Spruce	126.7	37.0	246.5	147.0	115.3	4.0	676.4	334.4	2.72	0.358
Republic Mordovia	Larch	5.5	73.5	17.2	0.6	0.0	0.0	96.7	48.1	4.95	0.435
Republic Mordovia	Cedar	0.2	0.4	0.0	0.0	0.0	0.0	0.6	0.3	2.75	0.397
Republic Mordovia	Hard deciduous	557.1	1023.8	7029.8	2079.3	1853.7	1062.9	13606.5	6757.9	7.21	0.499
Republic Mordovia	Oak	329.8	727.3	6662.9	2069.2	1827.3	1055.4	12672.0	6293.7	7.42	0.490
Republic Mordovia	Soft deciduous	623.9	4308.6	23243.3	12202.3	8122.3	1972.1	50472.4	25090.3	6.74	0.438
Republic Mordovia	Birch	240.5	2801.5	11975.2	7483.9	2374.2	253.9	25129.3	12485.7	6.11	0.444
Republic Mordovia	Aspen	226.2	889.2	2160.5	3065.3	4314.7	1317.9	11973.7	5952.7	6.31	0.362
Republic Mordovia	Shrubs	0.1	0.0	0.1	0.0	6.3	0.8	7.3	3.6	2.06	1.040
Republic Mordovia	Total	2523.8	10393.6	43918.9	19599.7	11859.3	3151.4	91446.6	45411.7	6.44	0.405
Republic Tatarstan	Coniferous	2317.8	9587.1	12358.3	3857.6	1908.1	282.2	30311.1	15016.2	5.43	0.331
Republic Tatarstan	Pine	1256.4	7603.5	10946.1	3219.6	1724.8	279.3	25029.6	12407.9	6.21	0.323
Republic Tatarstan	Spruce	1021.2	1474.7	1212.1	574.4	162.7	3.0	4448.1	2194.0	3.12	0.377
Republic Tatarstan	Fir	0.1	4.8	108.9	58.6	16.5	0.0	188.9	93.7	5.54	0.257
Republic Tatarstan	Larch	39.3	504.1	91.1	5.0	4.1	0.0	643.7	320.3	6.45	0.422
Republic Tatarstan	Cedar	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.4	1.71	0.375
Republic Tatarstan	Hard deciduous	1132.7	2805.2	14232.6	3277.1	2287.9	115.2	23850.7	11834.4	5.57	0.544
Republic Tatarstan	Oak	1024.6	2247.9	13469.0	3221.7	2267.4	114.4	22345.0	11088.1	5.80	0.536
Republic Tatarstan	Soft deciduous	1635.3	4723.2	41227.0	22340.0	21024.5	3669.9	94620.0	47041.5	7.09	0.464
Republic Tatarstan	Birch	217.0	1045.0	11347.2	6246.4	6536.5	455.2	25847.3	12841.6	6.48	0.440
Republic Tatarstan	Aspen	966.1	2277.0	6170.0	8766.7	6275.9	1077.9	25533.6	12688.4	5.24	0.368
Republic Tatarstan	Other species	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	1.42	0.566
Republic Tatarstan	Shrubs	4.2	0.3	4.0	0.7	384.9	62.3	456.5	221.7	2.23	1.030
Republic Tatarstan	Total	5090.0	17115.8	67822.0	29475.5	25605.4	4129.7	149238.4	74113.7	6.38	0.439
Republic Udmurtia	Coniferous	6898.9	26178.8	32191.1	30666.6	29548.3	3267.9	128751.6	63760.3	6.00	0.351
Republic Udmurtia	Pine	882.5	13096.4	15686.3	6648.0	3690.4	675.8	40679.4	20155.7	6.00	0.332
Republic Udmurtia	Spruce	5964.5	12635.9	16017.9	23521.1	25542.7	2583.8	86265.8	42708.2	6.01	0.361
Republic Udmurtia	Fir	0.9	30.1	432.2	495.1	308.5	8.4	1275.1	632.2	7.11	0.255
Republic Udmurtia	Larch	42.2	416.1	54.7	2.5	6.6	0.0	522.1	259.6	4.55	0.433
Republic Udmurtia	Cedar	8.9	0.3	0.0	0.0	0.0	0.0	9.2	4.5	2.46	0.395
Republic Udmurtia	Hard deciduous	1.6	18.7	247.3	45.4	82.8	17.3	413.2	205.2	7.33	0.522
Republic Udmurtia	Oak	0.0	4.6	160.2	14.9	52.7	8.3	240.6	119.5	7.72	0.461

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Republic Udmurtia	Soft deciduous	740.9	3475.6	64105.4	31515.2	28482.2	4657.4	132976.6	66118.8	7.43	0.440
Republic Udmurtia	Birch	432.4	2432.4	50478.1	21110.8	14707.7	1137.0	90298.4	44880.8	6.75	0.436
Republic Udmurtia	Aspen	178.3	375.0	1530.3	5100.5	7545.8	1525.7	16255.6	8086.9	7.45	0.354
Republic Udmurtia	Shrubs	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.1	1.55	1.084
Republic Udmurtia	Total	7641.4	29673.2	96543.7	62227.3	58113.5	7942.6	262141.7	130084.5	6.65	0.391
Chuvash Republic	Coniferous	1919.5	5123.2	7754.3	2913.2	1146.5	219.2	19075.9	9449.6	4.84	0.330
Chuvash Republic	Pine	1700.9	4735.7	7538.7	2827.1	1070.7	212.4	18085.5	8959.5	5.19	0.327
Chuvash Republic	Spruce	198.3	140.4	141.8	85.5	75.6	6.8	648.5	319.9	1.60	0.371
Chuvash Republic	Larch	16.1	247.1	73.7	0.6	0.2	0.0	337.7	168.1	6.54	0.420
Chuvash Republic	Cedar	4.2	0.0	0.0	0.0	0.0	0.0	4.2	2.1	1.44	0.378
Chuvash Republic	Hard deciduous	493.0	2157.0	10521.0	989.3	512.2	521.6	15194.1	7547.3	6.67	0.567
Chuvash Republic	Oak	407.7	2013.6	10370.1	982.0	500.6	511.0	14785.0	7344.3	6.81	0.564
Chuvash Republic	Soft deciduous	804.3	3158.8	15036.3	6139.2	7635.6	3051.0	35825.3	17806.7	6.54	0.466
Chuvash Republic	Birch	298.6	2041.8	7535.1	3525.8	2410.5	432.0	16243.9	8068.6	5.57	0.446
Chuvash Republic	Aspen	249.9	502.5	1166.0	1270.2	1692.5	396.3	5277.5	2622.7	5.46	0.369
Chuvash Republic	Shrubs	0.3	0.0	0.2	0.0	75.3	90.5	166.3	81.0	3.73	0.986
Chuvash Republic	Total	3217.0	10439.0	33311.9	10041.8	9369.6	3882.2	70261.6	34884.6	5.98	0.435
Perm oblast	Coniferous	21650.9	68176.6	95279.3	52375.2	181594.7	197168.8	616245.7	304820.9	5.27	0.390
Perm oblast	Pine	838.4	10491.3	27179.6	7736.3	13866.2	7426.3	67538.0	33401.7	5.32	0.359
Perm oblast	Spruce	20711.4	57304.3	66958.0	43708.4	164158.7	184914.9	537755.6	266006.3	5.27	0.396
Perm oblast	Fir	59.5	222.5	1068.0	645.2	2151.5	4117.2	8264.0	4082.1	4.77	0.310
Perm oblast	Larch	25.1	149.2	29.1	51.1	31.0	8.0	293.4	146.0	5.45	0.432
Perm oblast	Cedar	16.5	9.4	44.7	234.3	1387.3	702.5	2394.6	1184.8	6.37	0.374
Perm oblast	Hard deciduous	21.8	23.9	36.5	1.0	7.6	0.0	90.8	45.0	3.49	0.747
Perm oblast	Oak	0.0	0.0	1.4	0.0	5.0	0.0	6.4	3.2	8.41	0.501
Perm oblast	Soft deciduous	9036.3	32457.4	220384.7	48756.5	67662.2	58260.3	436557.5	216790.4	5.64	0.451
Perm oblast	Birch	7207.0	25397.5	172731.8	32475.7	48760.1	47060.3	333632.4	165611.1	5.30	0.451
Perm oblast	Aspen	915.2	2988.0	10902.4	12906.9	12648.2	9361.8	49722.5	24715.2	5.95	0.361
Perm oblast	Shrubs	0.0	0.0	0.0	0.0	0.0	2.2	2.2	1.0	1.38	1.107
Perm oblast	Total	30709.1	100658.0	315700.4	101132.8	249264.6	255431.3	1052896.1	521657.3	5.42	0.413
Komi-Perm autonomous okrug	Coniferous	4881.2	26745.2	41471.4	14111.6	52317.4	50776.9	190303.8	94078.2	5.04	0.385
Komi-Perm autonomous okrug	Pine	1540.7	15564.3	28386.6	5338.9	12554.7	7837.7	71222.8	35171.2	4.05	0.369
Komi-Perm autonomous okrug	Spruce	3333.4	11162.2	13038.0	8683.0	39685.7	42932.6	118835.0	58785.1	5.90	0.395
Komi-Perm autonomous okrug	Fir	0.2	14.4	24.3	48.0	36.8	6.5	130.2	64.5	5.32	0.285
Komi-Perm autonomous okrug	Larch	0.9	4.4	0.8	0.9	34.8	0.0	41.7	20.7	5.76	0.444
Komi-Perm autonomous okrug	Cedar	6.1	0.0	21.7	40.9	5.4	0.0	74.1	36.7	6.76	0.372
Komi-Perm autonomous okrug	Soft deciduous	1935.2	5884.5	36375.8	20963.5	20666.3	22021.3	107846.7	53578.6	6.22	0.426

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Komi-Perm autonomous okrug	Birch	1342.8	4076.6	34154.2	18895.8	17595.2	15759.7	91824.3	45619.1	6.52	0.440
Komi-Perm autonomous okrug	Aspen	589.7	1797.7	2101.7	2021.9	3050.7	6251.7	15813.4	7855.6	4.89	0.361
Komi-Perm autonomous okrug	Total	6816.4	32629.8	77847.2	35075.2	72983.8	72798.2	298150.5	147656.7	5.41	0.399
Kirov oblast	Coniferous	16377.0	53908.9	108362.1	74683.4	151853.2	67287.3	472471.9	233877.2	5.58	0.359
Kirov oblast	Pine	5085.6	31996.0	78451.2	35413.0	37012.2	11466.5	199424.6	98724.2	5.35	0.345
Kirov oblast	Spruce	11265.8	21786.4	29690.3	39000.6	114452.0	55749.8	271944.9	134606.2	5.77	0.371
Kirov oblast	Fir	1.9	13.1	199.9	255.6	359.2	27.3	856.9	424.7	6.16	0.261
Kirov oblast	Larch	21.5	98.5	20.4	14.2	28.8	43.8	227.3	113.0	4.76	0.431
Kirov oblast	Cedar	2.2	14.9	0.2	0.0	1.0	0.0	18.3	9.0	3.08	0.387
Kirov oblast	Hard deciduous	1.9	4.6	263.5	85.4	285.0	344.0	984.4	489.1	9.39	0.516
Kirov oblast	Oak	0.2	0.7	248.5	82.9	130.8	340.6	803.7	399.2	9.07	0.494
Kirov oblast	Soft deciduous	5250.3	27574.5	160107.8	63440.7	110056.2	65499.1	431928.6	214606.5	5.68	0.419
Kirov oblast	Birch	3240.4	18961.6	139756.1	50502.0	87851.1	32022.2	332333.4	165100.4	5.79	0.435
Kirov oblast	Aspen	1877.8	8030.3	13569.6	11362.2	19220.8	31134.6	85195.2	42345.2	5.06	0.355
Kirov oblast	Shrubs	0.0	0.0	0.0	0.3	12.5	0.0	12.8	6.2	1.45	1.096
Kirov oblast	Total	21629.2	81488.0	268733.4	138209.8	262206.9	133130.5	905397.8	448978.9	5.63	0.385
Nizhegorogsk oblast	Coniferous	12447.7	38435.6	88157.4	30177.3	14676.7	1660.8	185555.5	91948.3	4.86	0.333
Nizhegorogsk oblast	Pine	9932.6	36733.0	81169.5	24145.4	8050.1	742.1	160772.5	79680.3	4.97	0.329
Nizhegorogsk oblast	Spruce	2492.6	1600.2	6928.1	6015.7	6591.5	893.2	24521.4	12138.0	4.25	0.360
Nizhegorogsk oblast	Fir	0.0	0.0	23.8	13.4	6.7	0.3	44.3	21.9	5.88	0.261
Nizhegorogsk oblast	Larch	20.0	102.3	35.8	2.8	28.4	25.2	214.5	106.7	4.73	0.423
Nizhegorogsk oblast	Cedar	2.6	0.1	0.3	0.0	0.0	0.0	2.9	1.4	2.14	0.389
Nizhegorogsk oblast	Hard deciduous	83.9	380.1	5331.9	1753.0	2138.9	935.6	10623.4	5273.4	7.13	0.479
Nizhegorogsk oblast	Oak	57.9	290.6	5173.8	1752.1	2135.8	926.0	10336.3	5130.8	7.21	0.475
Nizhegorogsk oblast	Soft deciduous	3153.6	16598.4	114118.0	45405.1	35148.3	7394.3	221817.6	110250.7	6.31	0.426
Nizhegorogsk oblast	Birch	1775.5	12689.4	98960.6	33017.5	15116.6	2718.7	164278.3	81636.1	6.21	0.441
Nizhegorogsk oblast	Aspen	1099.6	2916.5	5121.6	10343.4	17987.9	3958.9	41427.9	20602.5	6.49	0.359
Nizhegorogsk oblast	Other species	0.0	0.0	0.1	0.0	2.4	0.0	2.5	1.2	2.22	0.484
Nizhegorogsk oblast	Shrubs	0.0	0.1	2.8	1.3	177.7	39.2	221.1	107.8	3.81	0.985
Nizhegorogsk oblast	Total	15685.2	55414.2	207610.2	77336.8	52143.9	10029.8	418220.1	207581.5	5.59	0.380
Orenburg oblast	Coniferous	308.0	1898.4	2769.1	518.5	2586.7	289.4	8370.1	4158.6	6.11	0.328
Orenburg oblast	Pine	304.6	1880.7	2759.0	518.5	2586.7	289.4	8338.9	4143.1	6.13	0.327
Orenburg oblast	Spruce	1.4	1.3	0.7	0.0	0.0	0.0	3.5	1.7	1.29	0.408
Orenburg oblast	Larch	2.0	16.4	9.4	0.0	0.0	0.0	27.7	13.8	4.77	0.430
Orenburg oblast	Hard deciduous	194.0	1495.7	9129.1	5198.8	3707.3	224.4	19949.4	9894.6	5.75	0.524
Orenburg oblast	Oak	38.7	484.1	6520.5	4559.8	3280.4	184.9	15068.5	7476.2	6.88	0.489
Orenburg oblast	Soft deciduous	219.1	809.7	14583.5	5679.7	6998.5	5551.6	33842.2	16815.5	6.85	0.439

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Orenburg oblast	Birch	26.5	111.1	2160.5	1989.1	1596.0	36.7	5919.9	2937.0	5.43	0.452
Orenburg oblast	Aspen	69.2	304.2	1656.0	1401.0	2528.1	142.1	6100.6	3030.1	5.42	0.369
Orenburg oblast	Other species	1.4	46.6	36.3	12.3	0.1	1.1	97.8	48.0	1.18	0.576
Orenburg oblast	Shrubs	0.9	0.7	220.5	72.5	163.2	61.5	519.3	249.8	1.06	1.176
Orenburg oblast	Total	723.4	4251.1	26738.5	11481.9	13455.8	6128.1	62778.8	31166.3	6.07	0.444
Penza oblast	Coniferous	2044.7	8299.1	11783.2	6268.9	3003.7	261.5	31661.1	15720.3	5.45	0.322
Penza oblast	Pine	1889.7	8054.8	11756.2	6255.4	2995.6	261.5	31213.2	15499.2	5.58	0.321
Penza oblast	Spruce	144.1	118.3	8.5	11.9	7.6	0.0	290.4	142.8	1.49	0.404
Penza oblast	Larch	9.6	126.0	18.5	1.6	0.4	0.0	156.2	77.7	6.79	0.423
Penza oblast	Cedar	1.3	0.0	0.1	0.0	0.0	0.0	1.3	0.7	1.91	0.370
Penza oblast	Hard deciduous	345.7	920.4	11542.6	4579.0	5577.7	1206.5	24171.8	11991.1	6.26	0.493
Penza oblast	Oak	257.6	750.9	11097.0	4516.5	5515.2	1176.3	23313.4	11564.6	6.24	0.489
Penza oblast	Soft deciduous	1615.9	3707.3	24333.1	9956.7	8914.6	2455.5	50983.0	25339.0	6.10	0.440
Penza oblast	Birch	415.8	1597.5	11895.3	3652.6	2007.3	205.7	19774.3	9823.5	5.91	0.447
Penza oblast	Aspen	811.8	1282.6	4257.8	4314.0	4777.7	1326.7	16770.5	8333.6	5.11	0.367
Penza oblast	Shrubs	0.0	0.0	0.0	0.0	6.4	57.3	63.8	31.0	2.26	1.029
Penza oblast	Total	4006.3	12926.8	47659.0	20804.6	17502.4	3980.7	106879.7	53081.4	5.92	0.406
Samara oblast	Coniferous	342.6	2903.5	4496.1	1157.0	2239.9	295.3	11434.5	5675.1	5.88	0.329
Samara oblast	Pine	314.3	2753.4	4482.5	1157.0	2239.9	295.3	11242.4	5579.8	5.99	0.328
Samara oblast	Spruce	22.4	4.7	1.2	0.0	0.0	0.0	28.3	13.9	0.74	0.421
Samara oblast	Larch	5.8	145.5	12.5	0.0	0.0	0.0	163.8	81.5	5.58	0.433
Samara oblast	Hard deciduous	323.2	1400.0	13709.1	5308.2	5506.4	833.7	27080.5	13435.0	6.54	0.513
Samara oblast	Oak	195.1	889.1	11253.6	4855.1	5082.2	636.8	22911.9	11366.3	6.80	0.493
Samara oblast	Soft deciduous	662.8	3207.6	26926.3	9181.6	7902.4	1914.5	49795.2	24756.0	7.16	0.482
Samara oblast	Birch	74.7	273.5	3829.9	1042.4	553.5	21.5	5795.5	2877.7	5.43	0.450
Samara oblast	Aspen	191.0	1056.1	5355.7	3518.9	3713.3	509.7	14344.7	7129.1	5.98	0.369
Samara oblast	Other species	4.1	37.1	30.4	22.7	1.9	0.0	96.3	47.5	1.63	0.323
Samara oblast	Shrubs	0.8	2.9	5.5	5.7	33.7	23.6	72.3	35.0	1.77	1.062
Samara oblast	Total	1333.5	7551.1	45167.4	15675.3	15684.3	3067.1	88478.7	43948.6	6.73	0.463
Saratov oblast	Coniferous	441.6	1279.4	2098.7	267.9	113.1	5.9	4206.6	2084.1	2.95	0.336
Saratov oblast	Pine	437.1	1210.2	2083.7	267.9	113.1	5.9	4117.8	2040.0	2.92	0.334
Saratov oblast	Spruce	0.1	0.1	6.1	0.0	0.0	0.0	6.3	3.1	6.21	0.362
Saratov oblast	Larch	4.4	69.1	9.0	0.0	0.0	0.0	82.5	41.0	4.58	0.443
Saratov oblast	Hard deciduous	367.4	1790.0	19276.6	7950.1	7139.3	462.1	36985.3	18336.1	5.71	0.537
Saratov oblast	Oak	228.1	1458.1	16850.9	7350.7	6884.6	456.1	33228.4	16476.3	6.14	0.522
Saratov oblast	Soft deciduous	238.7	726.4	10280.9	2308.1	3009.5	1902.5	18466.1	9175.2	6.68	0.478
Saratov oblast	Birch	26.7	58.6	1365.6	648.9	153.9	2.4	2256.1	1118.6	4.65	0.463

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Saratov oblast	Aspen	75.6	218.3	471.3	329.8	2153.1	785.0	4033.1	2002.1	4.85	0.362
Saratov oblast	Other species	0.2	0.7	12.1	0.1	0.0	0.0	13.1	6.4	1.32	0.524
Saratov oblast	Shrubs	0.9	0.1	19.9	9.4	54.9	217.2	302.5	146.7	1.95	1.047
Saratov oblast	Total	1048.8	3796.5	31688.2	10535.7	10316.8	2587.6	59973.6	29748.5	5.53	0.499
Uljanovsk oblast	Coniferous	2083.2	10911.9	27428.7	6768.1	2777.5	155.1	50124.4	24896.3	6.20	0.318
Uljanovsk oblast	Pine	1955.7	10758.3	27420.6	6759.4	2777.5	155.1	49826.6	24749.2	6.30	0.318
Uljanovsk oblast	Spruce	114.1	24.1	3.6	8.7	0.0	0.0	150.5	73.9	1.02	0.411
Uljanovsk oblast	Larch	13.2	129.2	4.5	0.0	0.0	0.0	146.9	73.0	5.15	0.430
Uljanovsk oblast	Cedar	0.2	0.2	0.0	0.0	0.0	0.0	0.5	0.2	2.67	0.356
Uljanovsk oblast	Hard deciduous	209.7	447.0	6241.1	3865.8	2866.1	340.4	13970.1	6928.2	6.21	0.499
Uljanovsk oblast	Oak	188.8	398.5	6039.3	3838.4	2835.1	330.1	13630.2	6759.3	6.21	0.495
Uljanovsk oblast	Soft deciduous	1158.3	3455.0	28273.4	13491.0	11670.4	2502.5	60550.6	30108.9	6.82	0.443
Uljanovsk oblast	Birch	312.2	1005.4	11984.8	6405.5	3742.9	173.8	23624.7	11742.0	6.50	0.436
Uljanovsk oblast	Aspen	550.5	1498.1	2863.3	4917.1	5623.4	1848.5	17300.9	8600.6	5.24	0.360
Uljanovsk oblast	Shrubs	0.0	0.1	0.2	0.0	2.8	64.1	67.2	32.7	2.60	1.014
Uljanovsk oblast	Total	3451.2	14813.9	61943.5	24124.8	17316.8	3062.1	124712.4	61966.1	6.48	0.387
Kurgan oblast	Coniferous	1737.4	11478.0	32229.1	5189.0	1779.8	65.3	52478.6	26065.5	5.51	0.321
Kurgan oblast	Pine	1698.9	11415.7	32205.4	5169.4	1774.7	65.3	52329.4	25991.6	5.53	0.320
Kurgan oblast	Spruce	21.7	11.1	20.8	17.6	3.1	0.0	74.2	36.6	2.10	0.389
Kurgan oblast	Fir	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.377
Kurgan oblast	Larch	16.3	50.8	3.0	2.1	1.9	0.0	74.1	36.8	3.72	0.431
Kurgan oblast	Cedar	0.5	0.4	0.0	0.0	0.0	0.0	0.9	0.4	1.16	0.360
Kurgan oblast	Hard deciduous	0.0	1.4	1.5	5.4	1.2	0.0	9.5	4.7	4.16	0.645
Kurgan oblast	Oak	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.2	13.40	0.670
Kurgan oblast	Soft deciduous	1104.1	2716.4	84660.6	12972.9	6562.1	137.7	108153.9	53695.3	5.30	0.445
Kurgan oblast	Birch	747.5	1729.3	80428.6	10361.6	4912.0	89.7	98268.7	48789.2	5.45	0.453
Kurgan oblast	Aspen	355.6	980.2	4191.2	2565.4	1616.0	45.9	9754.3	4841.2	4.19	0.381
Kurgan oblast	Other species	0.2	0.8	3.0	1.7	0.1	0.0	5.8	2.8	2.30	0.544
Kurgan oblast	Shrubs	20.8	318.0	33.1	2.5	7.1	1.7	383.2	184.9	1.29	1.123
Kurgan oblast	Total	2862.5	14514.6	116927.2	18171.5	8350.3	204.8	161031.0	79953.2	5.33	0.396
Sverdlovsk oblast	Coniferous	20661.8	89690.2	348024.5	144637.3	258564.3	149064.6	1010642.7	500033.9	6.08	0.368
Sverdlovsk oblast	Pine	11360.2	63541.7	243296.5	71073.1	124553.6	63900.6	577725.8	285901.2	5.83	0.357
Sverdlovsk oblast	Spruce	8167.6	22571.4	45380.9	32979.5	83611.4	74303.3	267014.2	132034.5	5.92	0.396
Sverdlovsk oblast	Fir	230.4	2056.1	5451.3	2554.7	5118.4	5912.5	21323.4	10547.4	5.41	0.306
Sverdlovsk oblast	Larch	125.8	370.3	1089.1	234.9	361.9	553.8	2735.8	1361.9	6.79	0.416
Sverdlovsk oblast	Cedar	777.7	1150.7	52806.7	37795.1	44919.0	4394.4	141843.5	70189.0	8.01	0.380
Sverdlovsk oblast	Hard deciduous	2.5	3.5	1.4	0.0	2.0	5.8	15.2	7.5	4.13	0.660

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Sverdlovsk oblast	Oak	1.0	1.7	0.1	0.0	0.0	5.8	8.7	4.3	5.20	0.599
Sverdlovsk oblast	Soft deciduous	9001.2	31661.3	257334.3	114975.6	128779.3	85413.7	627165.5	311421.6	5.73	0.435
Sverdlovsk oblast	Birch	6084.0	21974.4	232757.6	94156.3	105522.8	73493.9	533988.8	265133.0	5.87	0.445
Sverdlovsk oblast	Aspen	2676.1	8618.0	16284.3	19408.4	21248.0	11125.0	79359.9	39420.0	4.81	0.366
Sverdlovsk oblast	Shrubs	0.0	0.0	0.0	0.0	10.7	0.0	10.7	5.2	2.76	1.009
Sverdlovsk oblast	Total	29665.5	121354.9	605360.3	259612.9	387356.3	234484.1	1637834.1	811468.2	5.94	0.391
Tjumen oblast	Coniferous	3359.9	15310.9	63553.2	55045.5	132538.5	23402.9	293210.8	144838.6	4.98	0.371
Tjumen oblast	Pine	2503.0	14370.5	50937.1	37592.1	64730.1	9091.8	179224.7	88306.6	4.27	0.397
Tjumen oblast	Spruce	700.5	612.0	4293.5	7396.9	27387.9	8831.0	49221.8	24408.1	6.29	0.381
Tjumen oblast	Fir	47.2	149.1	519.0	854.5	4094.6	2850.9	8515.3	4210.9	5.66	0.304
Tjumen oblast	Larch	1.7	10.6	3.3	0.0	1.2	32.7	49.6	24.7	5.44	0.397
Tjumen oblast	Cedar	107.4	168.7	7800.3	9202.0	36324.6	2596.4	56199.4	27888.3	7.38	0.310
Tjumen oblast	Soft deciduous	4396.7	6835.0	90900.6	56949.2	130098.7	149602.0	438782.2	217645.1	6.11	0.463
Tjumen oblast	Birch	2754.9	3864.5	75928.1	51033.9	121391.4	126521.2	381494.0	189219.5	6.27	0.477
Tjumen oblast	Aspen	1584.0	2865.4	13536.8	5668.1	8426.6	22970.0	55050.8	27315.2	5.23	0.382
Tjumen oblast	Other species	0.0	0.0	0.0	0.0	0.1	0.5	0.6	0.3	3.29	0.526
Tjumen oblast	Shrubs	0.0	0.0	0.1	1.3	218.0	220.3	439.8	212.6	1.46	1.096
Tjumen oblast	Total	7756.6	22145.9	154453.8	111996.0	262855.4	173225.7	732433.4	362696.6	5.60	0.421
Cheljabinsk oblast	Coniferous	2839.2	14981.3	60925.9	16755.0	16555.7	608.3	112665.5	55872.2	6.69	0.339
Cheljabinsk oblast	Pine	2134.1	14009.5	50648.9	10661.3	8479.4	415.5	86348.5	42835.8	6.92	0.333
Cheljabinsk oblast	Spruce	588.0	287.2	6691.5	4463.6	5710.3	43.5	17784.1	8801.0	6.06	0.386
Cheljabinsk oblast	Fir	37.6	276.4	3061.6	1057.8	610.5	11.3	5055.1	2503.3	5.06	0.282
Cheljabinsk oblast	Larch	75.6	408.0	524.0	572.4	1755.6	138.1	3473.6	1730.0	8.24	0.405
Cheljabinsk oblast	Cedar	3.9	0.2	0.0	0.0	0.0	0.0	4.1	2.0	2.30	0.399
Cheljabinsk oblast	Hard deciduous	25.9	260.8	2321.5	658.6	895.4	1162.2	5324.5	2642.6	8.13	0.655
Cheljabinsk oblast	Oak	17.7	55.1	774.7	234.4	204.8	118.9	1405.5	697.8	8.38	0.591
Cheljabinsk oblast	Soft deciduous	1687.8	4594.5	148146.4	29330.3	27303.3	7268.6	218331.0	108427.4	6.25	0.451
Cheljabinsk oblast	Birch	909.3	2540.9	127237.3	20764.8	18330.4	5149.8	174932.5	86867.5	6.34	0.453
Cheljabinsk oblast	Aspen	611.6	1196.6	7476.7	4918.5	5918.8	2013.5	22135.7	10989.4	4.88	0.373
Cheljabinsk oblast	Other species	0.3	0.3	1.8	0.7	0.0	0.0	3.1	1.5	2.07	0.540
Cheljabinsk oblast	Shrubs	1.4	0.1	0.9	13.4	179.5	4.6	199.9	96.7	1.54	1.085
Cheljabinsk oblast	Total	4554.6	19837.1	211396.5	46758.0	44933.9	9043.8	336523.9	167040.5	6.40	0.408
Khanti-Mansiisky autonomous okrug	Coniferous	17861.3	28305.5	477345.8	318263.9	829681.5	255681.0	1927139.0	946870.6	4.11	0.366
Khanti-Mansiisky autonomous okrug	Pine	14630.7	23936.3	134068.2	149794.3	555886.9	149076.9	1027393.2	502491.2	3.26	0.339
Khanti-Mansiisky autonomous okrug	Spruce	821.5	1264.3	18807.1	30211.4	180895.5	55710.9	287710.7	142029.7	5.41	0.452
Khanti-Mansiisky autonomous okrug	Fir	16.9	21.4	72.7	485.6	1652.8	8158.4	10407.7	5132.7	6.23	0.360
Khanti-Mansiisky autonomous okrug	Larch	70.4	146.8	3131.8	4310.1	34091.5	41398.2	83148.7	41269.7	6.25	0.453

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Khanti-Mansiisky autonomous okrug	Cedar	2321.8	2936.8	321266.0	133462.4	57155.0	1336.6	518478.7	255947.3	6.02	0.374
Khanti-Mansiisky autonomous okrug	Soft deciduous	6764.9	6251.6	35293.3	17545.2	76558.7	415077.4	557491.1	276107.9	5.05	0.435
Khanti-Mansiisky autonomous okrug	Birch	5724.5	5030.2	33176.6	16722.1	74693.2	296134.4	431481.0	213543.2	4.66	0.464
Khanti-Mansiisky autonomous okrug	Aspen	1039.3	1206.3	1906.6	660.4	1758.7	118933.6	125504.9	62315.7	7.07	0.356
Khanti-Mansiisky autonomous okrug	Other species	0.0	0.0	0.0	0.0	25.4	0.0	25.4	12.1	0.43	0.571
Khanti-Mansiisky autonomous okrug	Shrubs	0.8	0.0	0.0	0.0	2608.0	62.3	2671.0	1281.2	0.93	1.223
Khanti-Mansiisky autonomous okrug	Total	24627.0	34557.2	512639.1	335809.0	908873.6	670820.7	2487326.6	1224271.7	4.27	0.380
Jamalo-Nenetsky autonomous okrug	Coniferous	2407.5	8510.4	243724.9	156541.9	370838.5	191679.7	973702.9	478379.8	3.47	0.437
Jamalo-Nenetsky autonomous okrug	Pine	1308.1	2982.0	54434.7	30109.7	116265.6	33448.6	238548.8	115967.6	2.58	0.359
Jamalo-Nenetsky autonomous okrug	Spruce	55.8	80.8	32275.1	22821.2	56343.2	24318.6	135894.8	66740.9	3.50	0.500
Jamalo-Nenetsky autonomous okrug	Fir	0.5	2.0	0.8	5.1	33.8	68.5	110.7	54.5	4.53	0.381
Jamalo-Nenetsky autonomous okrug	Larch	351.0	1822.9	76882.6	46603.8	165298.6	133539.6	424498.6	209917.2	4.03	0.495
Jamalo-Nenetsky autonomous okrug	Cedar	692.2	3622.6	80131.7	57002.1	32897.2	304.3	174650.1	85699.6	3.94	0.400
Jamalo-Nenetsky autonomous okrug	Soft deciduous	773.5	915.0	18039.5	11093.7	41151.4	19943.5	91916.5	45200.2	2.81	0.520
Jamalo-Nenetsky autonomous okrug	Birch	766.3	881.4	17858.8	10986.2	40694.2	18157.1	89344.0	43932.7	2.81	0.524
Jamalo-Nenetsky autonomous okrug	Aspen	5.9	13.7	55.1	80.2	318.6	1375.2	1848.6	912.9	4.40	0.393
Jamalo-Nenetsky autonomous okrug	Shrubs	8.6	3462.1	6800.8	1931.4	4501.5	515.6	17220.0	8263.7	0.95	1.215
Jamalo-Nenetsky autonomous okrug	Total	3189.7	12887.5	268565.1	169567.0	416491.3	212138.9	1082839.5	531843.8	3.27	0.447
Republic Altai	Coniferous	3047.3	6106.8	170682.6	96464.6	117271.9	75342.5	468915.7	232772.9	7.68	0.365
Republic Altai	Pine	22.9	74.8	4885.8	1580.0	746.2	190.9	7500.6	3697.5	5.49	0.276
Republic Altai	Spruce	94.5	55.1	4298.1	2667.9	3613.6	1057.6	11786.7	5844.3	6.97	0.400
Republic Altai	Fir	153.8	238.2	3053.0	8004.3	17543.8	13593.1	42586.1	21070.2	5.24	0.291
Republic Altai	Larch	421.1	756.5	33141.5	27324.0	72700.4	60359.8	194703.3	96849.8	7.64	0.423
Republic Altai	Cedar	2355.0	4982.3	125304.1	56888.4	22667.9	141.2	212339.0	105311.0	8.71	0.342
Republic Altai	Hard deciduous	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.3	6.63	0.553
Republic Altai	Oak	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.3	6.63	0.553
Republic Altai	Soft deciduous	228.0	833.1	16046.1	14178.6	33112.3	18087.1	82485.1	40902.1	5.87	0.458
Republic Altai	Birch	154.4	575.0	12992.6	10332.4	23865.0	12084.1	60003.6	29744.8	5.83	0.492
Republic Altai	Aspen	72.7	252.0	2998.1	3800.7	9155.9	5880.7	22160.1	10998.3	6.05	0.387
Republic Altai	Shrubs	0.1	9.8	373.2	0.5	381.3	5019.2	5784.1	2784.7	1.12	1.159
Republic Altai	Total	3275.4	6949.7	187102.4	110643.7	150765.5	98448.9	557185.6	276460.0	6.96	0.379
Republic Burjatia	Coniferous	23000.9	81328.3	588797.1	228348.9	456602.8	281649.9	1659727.9	821528.5	4.79	0.417
Republic Burjatia	Pine	9024.7	30143.0	126658.7	29168.9	44767.6	39774.7	279537.7	137667.6	4.07	0.340
Republic Burjatia	Spruce	31.3	37.7	3034.3	2487.1	7611.7	7046.7	20248.8	10005.3	5.50	0.432
Republic Burjatia	Fir	182.1	304.2	13081.4	8740.4	14305.9	1905.7	38519.6	19036.6	5.28	0.310
Republic Burjatia	Larch	11257.1	38661.4	269945.0	150889.0	351838.8	231765.5	1054356.8	522759.0	4.72	0.468
Republic Burjatia	Cedar	2505.8	12182.0	176077.3	37063.5	38078.8	1157.2	267064.6	132059.8	6.19	0.362

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Republic Burjatia	Hard deciduous	0.8	7.8	381.2	0.0	0.0	0.0	389.7	192.5	4.25	0.717
Republic Burjatia	Soft deciduous	4244.0	7484.8	53273.5	19763.8	30846.7	17823.7	133436.6	66026.0	3.55	0.452
Republic Burjatia	Birch	3181.1	5460.7	40420.4	13865.4	18680.4	5589.5	87197.5	43107.3	3.28	0.502
Republic Burjatia	Aspen	1060.3	1997.2	12557.2	5798.7	11850.5	11713.8	44977.8	22293.5	4.21	0.380
Republic Burjatia	Shrubs	4824.7	28046.2	84448.4	8509.5	5827.7	749.4	132405.9	63958.8	1.73	0.648
Republic Burjatia	Total	32070.4	116867.2	726900.2	256622.2	493277.2	300223.0	1925960.1	951705.8	4.19	0.429
Republic Tyva	Coniferous	4558.5	25971.8	265343.7	208623.3	258993.5	118230.7	881721.5	437050.0	5.79	0.405
Republic Tyva	Pine	93.5	230.7	1081.8	1327.2	11365.7	78.7	14177.7	7005.2	6.89	0.406
Republic Tyva	Spruce	15.3	52.7	939.7	622.6	3142.6	2403.8	7176.9	3549.9	5.52	0.421
Republic Tyva	Fir	0.0	0.0	22.1	26.1	23.0	20.7	91.8	45.3	6.71	0.336
Republic Tyva	Larch	2124.0	5795.4	76267.5	65810.0	236408.5	115614.1	502019.5	249530.0	6.61	0.438
Republic Tyva	Cedar	2325.7	19893.0	187032.6	140837.4	8053.6	113.4	358255.7	176919.6	4.91	0.366
Republic Tyva	Soft deciduous	81.8	407.5	7180.3	4560.5	8414.8	7521.4	28166.3	13949.2	4.93	0.471
Republic Tyva	Birch	57.1	307.2	6656.2	4119.8	7709.0	6192.9	25042.2	12402.6	5.07	0.482
Republic Tyva	Aspen	17.1	50.4	171.5	53.3	73.5	30.9	396.7	196.3	3.06	0.406
Republic Tyva	Shrubs	896.7	1771.4	1181.1	177.2	727.6	642.7	5396.8	2600.1	1.17	1.147
Republic Tyva	Total	5537.0	28150.7	273705.1	213361.0	268136.0	126394.8	915284.6	453599.3	5.64	0.408
Khakass Republic	Coniferous	3561.3	13792.4	97569.7	64561.1	72464.9	17979.1	269928.6	133797.8	6.28	0.347
Khakass Republic	Pine	603.2	2996.0	13077.9	3434.1	3748.3	1704.4	25563.9	12628.6	5.56	0.381
Khakass Republic	Spruce	38.7	34.1	997.3	1108.6	1847.6	554.1	4580.2	2269.9	5.70	0.396
Khakass Republic	Fir	1081.3	792.5	8435.6	11726.1	24214.2	6713.0	52962.7	26180.9	4.78	0.306
Khakass Republic	Larch	555.8	4134.2	18504.3	8366.8	12087.2	7476.1	51124.4	25433.6	6.59	0.428
Khakass Republic	Cedar	1282.4	5835.6	56554.6	39925.5	30567.7	1531.6	135697.4	67284.9	7.24	0.334
Khakass Republic	Hard deciduous	0.0	0.8	6.9	0.0	0.0	0.0	7.7	3.8	2.72	0.833
Khakass Republic	Soft deciduous	706.3	2214.4	26322.8	11983.1	27723.4	7999.5	76949.5	38111.7	4.59	0.478
Khakass Republic	Birch	669.5	1939.0	24216.4	10787.6	24526.1	6246.8	68385.4	33865.1	4.55	0.492
Khakass Republic	Aspen	36.8	258.7	2049.2	1113.0	3021.7	1683.3	8162.7	4048.3	5.16	0.387
Khakass Republic	Other species	0.0	0.0	0.0	2.1	0.0	0.0	2.1	1.0	1.57	0.346
Khakass Republic	Shrubs	0.2	7.6	49.3	65.5	559.3	111.4	793.1	386.8	4.24	0.978
Khakass Republic	Total	4267.9	16015.1	123948.7	76611.8	100747.5	26090.0	347681.0	172301.2	5.80	0.370
Altai kray	Coniferous	1815.8	8425.7	117468.0	45165.9	38118.8	10590.3	221584.6	110073.2	6.08	0.325
Altai kray	Pine	1039.6	7966.1	104583.4	32701.9	17014.7	450.6	163756.2	81409.8	6.49	0.324
Altai kray	Spruce	467.0	6.1	331.7	492.6	1368.9	401.5	3067.7	1519.7	3.14	0.396
Altai kray	Fir	172.6	260.3	2948.6	8551.1	15498.7	3466.5	30897.8	15280.2	4.37	0.285
Altai kray	Larch	60.3	168.4	4934.4	1543.4	3729.9	6216.1	16652.6	8287.2	7.68	0.421
Altai kray	Cedar	76.4	24.8	4669.9	1876.9	506.6	55.6	7210.2	3576.4	7.37	0.339
Altai kray	Hard deciduous	3.1	17.6	47.8	76.3	7.7	0.2	152.6	75.6	3.44	0.708

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Altai kray	Oak	0.9	2.4	0.6	0.0	0.0	0.0	3.9	1.9	6.13	0.729
Altai kray	Soft deciduous	1726.9	4543.8	48393.9	31496.7	58692.0	15080.7	159934.0	79348.8	5.20	0.432
Altai kray	Birch	761.9	1153.1	37117.0	18447.5	22413.9	4283.4	84176.8	41752.6	5.36	0.484
Altai kray	Aspen	945.5	3261.4	10952.6	12547.1	35493.9	10547.8	73748.3	36600.1	5.05	0.386
Altai kray	Other species	0.0	0.2	1.7	1.7	12.9	23.6	40.1	19.8	2.21	0.565
Altai kray	Shrubs	4.3	1.2	38.3	20.8	345.5	1943.5	2353.5	1138.2	1.52	1.088
Altai kray	Total	3550.1	12988.4	165949.7	76761.4	97176.9	27638.3	384064.9	190655.6	5.59	0.364
Krasnoyarsk kray	Coniferous	32270.3	78213.1	764393.8	752622.2	1213915.2	1851589.6	4693004.2	2322545.3	6.21	0.368
Krasnoyarsk kray	Pine	18060.0	39114.1	175353.3	82880.3	324619.0	646525.9	1286552.6	636101.6	6.33	0.367
Krasnoyarsk kray	Spruce	2297.2	2068.9	21206.7	40051.4	229630.3	377257.0	672511.5	332075.1	5.42	0.422
Krasnoyarsk kray	Fir	5753.3	17114.9	73424.2	75435.9	307091.2	171245.0	650064.5	321364.5	5.39	0.310
Krasnoyarsk kray	Larch	1424.3	4456.1	57580.6	32576.1	147268.9	650948.8	894254.8	444290.7	6.76	0.423
Krasnoyarsk kray	Cedar	4735.5	15458.9	436829.1	521678.5	205305.8	5612.8	1189620.7	588713.5	6.77	0.345
Krasnoyarsk kray	Hard deciduous	0.0	1.5	0.0	0.0	0.0	0.0	1.5	0.8	3.66	0.731
Krasnoyarsk kray	Soft deciduous	10606.5	43224.9	262991.9	151159.0	405766.4	467638.3	1341386.9	664357.4	4.79	0.449
Krasnoyarsk kray	Birch	7849.1	34027.9	228589.4	129373.5	322210.5	328882.2	1050932.6	520189.3	4.57	0.478
Krasnoyarsk kray	Aspen	2753.1	9051.8	33625.5	21574.8	83395.7	138753.2	289154.1	143526.7	5.81	0.369
Krasnoyarsk kray	Other species	0.0	16.6	59.4	60.7	5.4	1.0	143.1	69.2	0.65	0.453
Krasnoyarsk kray	Shrubs	4.8	3258.3	4101.6	1914.4	4542.3	864.8	14686.2	7073.6	1.15	1.151
Krasnoyarsk kray	Total	42881.6	124714.4	1031546.8	905756.3	1624229.2	2320093.7	6049222.0	2994046.3	5.77	0.384
Irkutsk oblast	Coniferous	77197.0	206963.3	1343990.6	768057.2	1586492.8	1891034.9	5873735.7	2913011.9	6.22	0.369
Irkutsk oblast	Pine	39912.7	79761.8	376634.0	228280.8	426504.6	725725.5	1876819.4	928521.5	5.93	0.345
Irkutsk oblast	Spruce	2202.2	5180.2	57995.5	45381.8	127053.3	138176.9	375989.9	186301.2	5.51	0.386
Irkutsk oblast	Fir	1322.8	2786.3	28006.5	31075.7	84221.2	48849.3	196261.8	97118.2	5.74	0.295
Irkutsk oblast	Larch	24788.2	35153.2	353913.6	183170.1	705415.8	955464.8	2257905.7	1122580.6	5.98	0.420
Irkutsk oblast	Cedar	8971.1	84081.9	527440.9	280148.9	243297.9	22818.3	1166758.9	578490.4	7.87	0.337
Irkutsk oblast	Soft deciduous	20502.2	41099.2	223077.9	107070.8	266190.6	257002.8	914943.4	453574.9	4.22	0.433
Irkutsk oblast	Birch	14422.3	28672.0	187754.8	89089.3	204725.5	132954.2	657618.1	325861.6	4.11	0.468
Irkutsk oblast	Aspen	6056.2	12212.9	35104.8	17846.5	61394.0	123621.6	256236.0	127174.9	4.54	0.362
Irkutsk oblast	Other species	0.0	0.0	1.8	5.2	4.0	64.6	75.6	37.5	4.26	0.281
Irkutsk oblast	Shrubs	2427.1	7114.4	87642.4	6530.6	40436.0	3084.5	147235.0	71068.9	1.72	0.591
Irkutsk oblast	Total	100126.3	255176.9	1654712.6	881663.7	1893123.4	2151186.8	6935989.8	3437693.3	5.57	0.379
Kemerovo oblast	Coniferous	7655.1	12048.4	65216.8	70086.3	113265.6	9513.3	277785.5	137399.4	4.10	0.309
Kemerovo oblast	Pine	1029.2	3890.0	6148.8	1768.9	230.1	121.5	13188.5	6532.0	4.86	0.348
Kemerovo oblast	Spruce	1286.8	403.0	3191.7	2784.6	1996.6	172.6	9835.2	4872.1	3.53	0.385
Kemerovo oblast	Fir	3722.9	7215.7	36366.3	45610.4	100379.3	9148.1	202442.9	100033.9	3.72	0.300
Kemerovo oblast	Larch	13.8	71.5	519.0	65.9	37.6	4.0	711.9	354.0	4.45	0.422

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Kemerovo oblast	Cedar	1602.3	468.3	18990.9	19856.5	10622.0	67.0	51607.0	25607.5	6.78	0.327
Kemerovo oblast	Hard deciduous	0.7	10.1	6.8	0.0	0.0	0.0	17.5	8.7	3.21	0.707
Kemerovo oblast	Soft deciduous	3121.3	11356.5	58800.7	41390.6	79115.6	32142.9	225927.6	111986.2	4.81	0.436
Kemerovo oblast	Birch	959.2	4344.8	30748.5	20054.8	36815.7	13654.5	106577.6	52795.8	4.82	0.494
Kemerovo oblast	Aspen	2048.2	6581.1	26992.6	21096.3	41636.4	17764.4	116119.0	57588.8	4.81	0.392
Kemerovo oblast	Other species	0.0	0.0	7.2	0.0	0.0	0.0	7.2	3.6	1.86	0.629
Kemerovo oblast	Shrubs	61.4	96.5	182.8	104.0	68.2	0.7	513.6	249.7	2.52	1.017
Kemerovo oblast	Total	10838.4	23511.5	124214.2	111580.9	192449.5	41656.9	504251.5	249647.6	4.39	0.356
Novosibirsk oblast	Coniferous	1226.2	7081.6	77339.7	35613.9	35652.5	1501.3	158415.2	78204.1	4.64	0.382
Novosibirsk oblast	Pine	903.7	6722.6	68742.3	29023.5	28795.0	874.2	135061.3	66648.9	4.48	0.390
Novosibirsk oblast	Spruce	84.4	126.6	1119.9	736.5	2831.3	377.1	5275.7	2610.9	6.32	0.431
Novosibirsk oblast	Fir	14.2	39.8	995.6	2706.5	3106.2	188.7	7051.0	3491.1	4.67	0.266
Novosibirsk oblast	Larch	12.2	85.3	136.2	170.3	189.8	61.4	655.1	326.0	6.32	0.413
Novosibirsk oblast	Cedar	211.7	107.3	6345.7	2977.1	730.2	0.0	10372.0	5127.2	6.91	0.366
Novosibirsk oblast	Hard deciduous	1.5	3.5	10.7	13.1	24.2	7.2	60.3	29.5	1.83	0.704
Novosibirsk oblast	Oak	0.0	0.0	1.7	0.0	0.3	1.3	3.2	1.6	4.55	0.524
Novosibirsk oblast	Soft deciduous	2519.5	7168.9	84675.8	38898.9	105276.3	49244.2	287783.6	142563.9	4.74	0.467
Novosibirsk oblast	Birch	1631.5	4676.0	72357.5	31264.2	89584.5	39356.7	238870.4	118304.0	4.73	0.487
Novosibirsk oblast	Aspen	869.2	2459.8	12207.0	7468.3	15450.0	9554.7	48008.9	23811.2	4.77	0.389
Novosibirsk oblast	Other species	0.0	0.6	2.9	2.3	3.7	1.1	10.6	5.2	1.52	0.606
Novosibirsk oblast	Shrubs	0.7	39.0	10.9	1.3	326.4	530.5	908.8	439.0	1.39	1.105
Novosibirsk oblast	Total	3747.9	14293.6	162040.0	74529.6	141283.1	51284.3	447178.5	221241.7	4.68	0.433
Omsk oblast	Coniferous	2318.4	8797.3	57609.3	30657.9	43264.3	6935.4	149582.5	73768.7	4.86	0.405
Omsk oblast	Pine	1523.4	7070.2	31989.7	17759.2	28600.8	3901.0	90844.1	44711.7	4.12	0.429
Omsk oblast	Spruce	293.2	553.2	5023.2	4293.5	4101.8	702.0	14966.9	7409.3	6.00	0.437
Omsk oblast	Fir	117.4	386.2	1041.1	1823.0	5471.4	2074.4	10913.4	5389.3	6.33	0.343
Omsk oblast	Larch	13.4	137.6	18.0	34.1	141.0	102.8	446.8	222.3	6.39	0.426
Omsk oblast	Cedar	371.1	650.2	19537.4	6748.2	4949.3	155.3	32411.3	16036.0	7.35	0.360
Omsk oblast	Hard deciduous	0.1	3.2	3.3	2.4	8.6	16.3	33.9	16.7	2.96	0.616
Omsk oblast	Oak	0.1	1.8	0.0	0.0	0.0	0.0	1.8	0.9	3.52	0.683
Omsk oblast	Soft deciduous	3560.7	5984.7	44762.6	34208.2	94946.6	172916.7	356379.4	176973.2	6.66	0.435
Omsk oblast	Birch	1699.2	2730.2	38266.5	28952.1	89838.7	133690.9	295177.5	146570.4	6.89	0.454
Omsk oblast	Aspen	1853.2	3223.6	5668.9	4904.0	4867.8	39210.9	59728.3	29670.6	5.69	0.361
Omsk oblast	Other species	0.1	0.0	0.5	0.7	1.3	0.7	3.2	1.6	1.43	0.592
Omsk oblast	Shrubs	1.6	0.0	0.7	0.1	20.0	69.2	91.7	44.3	1.36	1.110
Omsk oblast	Total	5880.9	14785.2	102376.3	64869.3	138240.9	179938.3	506090.8	250804.4	6.00	0.426
Tomsk oblast	Coniferous	18596.3	22690.4	322890.7	307086.5	445734.3	147977.4	1264975.7	624670.8	5.76	0.377

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Tomsk oblast	Pine	9778.1	15696.8	100068.5	80445.2	257536.4	107903.1	571428.1	281415.9	4.78	0.414
Tomsk oblast	Spruce	915.0	1084.8	8285.7	10907.5	29424.3	11446.5	62063.8	30735.5	6.56	0.420
Tomsk oblast	Fir	1518.4	1837.2	5834.8	10383.4	28654.8	23869.6	72098.1	35628.5	5.57	0.327
Tomsk oblast	Larch	7.3	14.8	127.5	103.4	474.0	366.3	1093.3	543.4	6.42	0.425
Tomsk oblast	Cedar	6377.5	4056.8	208574.2	205247.1	129644.8	4391.9	558292.4	276347.4	7.19	0.348
Tomsk oblast	Soft deciduous	8849.9	13824.2	87525.5	31860.9	179474.5	653586.7	975121.6	483850.3	6.25	0.431
Tomsk oblast	Birch	6163.5	10263.2	75348.3	26727.3	162528.3	489030.3	770060.8	382017.4	6.22	0.456
Tomsk oblast	Aspen	2684.5	3546.9	12090.0	5041.4	16651.1	164068.9	204082.8	101349.8	6.40	0.359
Tomsk oblast	Shrubs	0.2	0.0	0.0	0.0	38.1	169.6	208.0	100.6	1.49	1.091
Tomsk oblast	Total	27446.4	36514.6	410416.2	338947.4	625246.9	801733.7	2240305.3	1108621.6	5.96	0.399
Chita oblast	Coniferous	25459.6	103285.9	604832.8	259030.1	623038.2	319249.2	1934895.8	959062.9	4.78	0.428
Chita oblast	Pine	4965.2	16675.4	71137.8	22621.6	52479.0	21008.8	188887.8	92842.6	3.67	0.314
Chita oblast	Spruce	5.2	19.9	344.6	164.8	490.8	312.8	1338.2	661.3	5.15	0.442
Chita oblast	Fir	1.9	13.9	71.9	92.6	333.9	122.6	636.8	314.9	5.90	0.312
Chita oblast	Larch	18441.8	77134.8	417887.0	214889.9	560585.2	297687.7	1586626.4	787277.6	4.79	0.457
Chita oblast	Cedar	2045.4	9441.8	115391.5	21261.2	9149.3	117.3	157406.5	77966.6	7.16	0.356
Chita oblast	Hard deciduous	10.3	0.8	3.3	0.0	0.0	0.0	14.4	7.1	1.07	0.929
Chita oblast	Soft deciduous	10500.2	23479.6	174916.8	40336.8	53301.4	7548.5	310083.3	153212.5	2.95	0.503
Chita oblast	Birch	8747.4	19852.7	162095.1	37744.1	51189.1	6418.6	286047.0	141343.3	3.01	0.511
Chita oblast	Aspen	1701.3	3603.6	12704.9	2576.4	2061.3	1046.8	23694.3	11700.8	2.38	0.421
Chita oblast	Other species	3.7	0.0	0.0	0.0	3.6	0.0	7.3	3.6	0.67	0.777
Chita oblast	Shrubs	3663.3	27675.2	72319.1	6768.6	4190.1	1157.8	115774.2	55887.2	1.58	0.695
Chita oblast	Total	39637.2	154441.6	852072.0	306135.5	680533.3	327955.5	2360775.0	1168173.3	4.06	0.445
Aginsky Burjatsky autonomous okrug	Coniferous	364.1	989.4	5028.5	6540.8	16885.5	2844.5	32652.8	16221.9	5.95	0.404
Aginsky Burjatsky autonomous okrug	Pine	101.2	307.3	965.3	868.0	753.3	445.6	3440.8	1693.0	3.64	0.309
Aginsky Burjatsky autonomous okrug	Larch	262.9	671.0	3847.0	5672.8	16132.2	2398.9	28984.7	14416.2	6.42	0.420
Aginsky Burjatsky autonomous okrug	Cedar	0.0	11.1	216.2	0.0	0.0	0.0	227.3	112.7	7.90	0.350
Aginsky Burjatsky autonomous okrug	Soft deciduous	524.5	469.9	5336.0	1427.5	5475.0	2151.4	15384.4	7612.7	3.64	0.477
Aginsky Burjatsky autonomous okrug	Birch	385.3	426.2	4571.0	1084.6	5386.8	2124.2	13978.0	6917.5	3.84	0.485
Aginsky Burjatsky autonomous okrug	Aspen	139.2	43.6	765.0	343.0	88.2	27.3	1406.4	695.2	2.43	0.409
Aginsky Burjatsky autonomous okrug	Shrubs	4.8	56.5	187.7	1.0	0.0	0.0	250.0	121.1	1.70	1.068
Aginsky Burjatsky autonomous okrug	Total	893.4	1515.8	10552.2	7969.3	22360.5	4995.9	48287.1	23955.7	4.90	0.426
Taimir autonomous okrug	Coniferous	394.8	279.9	98.9	1849.4	11323.2	85287.7	99234.0	48628.0	2.72	0.553
Taimir autonomous okrug	Spruce	0.7	22.1	18.9	20.0	3968.7	9207.6	13238.0	6471.5	3.65	0.539
Taimir autonomous okrug	Larch	394.0	257.8	80.0	1829.4	7354.6	76080.1	85995.9	42156.4	2.61	0.555
Taimir autonomous okrug	Soft deciduous	11.4	16.1	217.9	153.3	578.8	872.6	1849.9	900.2	1.99	0.607
Taimir autonomous okrug	Birch	11.4	16.1	217.9	153.3	578.8	872.6	1849.9	900.2	1.99	0.607

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Taimir autonomous okrug	Shrubs	20.9	7610.7	8656.0	190.4	29.9	19.8	16527.7	7802.1	0.53	1.619
Taimir autonomous okrug	Total	427.0	7906.7	8972.8	2193.1	11931.9	86180.0	117611.6	57330.2	1.73	0.608
Ust-Ordynsky Burjatsky autonomous okrug	Coniferous	1469.5	4835.1	22236.9	11625.9	14510.2	28523.5	83201.2	41320.5	6.16	0.365
Ust-Ordynsky Burjatsky autonomous okrug	Pine	1310.4	4115.6	17230.1	8804.5	8953.2	9873.2	50287.0	24952.1	5.74	0.344
Ust-Ordynsky Burjatsky autonomous okrug	Spruce	2.3	67.5	607.0	529.3	854.0	482.6	2542.7	1260.3	4.80	0.377
Ust-Ordynsky Burjatsky autonomous okrug	Fir	1.9	1.3	55.2	17.8	32.5	17.6	126.3	62.5	4.20	0.291
Ust-Ordynsky Burjatsky autonomous okrug	Larch	93.7	599.1	3232.0	2016.5	4661.6	18150.2	28753.1	14305.6	7.30	0.409
Ust-Ordynsky Burjatsky autonomous okrug	Cedar	61.2	51.6	1112.6	257.8	8.8	0.0	1492.0	740.1	5.97	0.340
Ust-Ordynsky Burjatsky autonomous okrug	Soft deciduous	356.1	1666.4	14113.8	5908.8	12406.8	10922.6	45374.5	22490.5	4.79	0.456
Ust-Ordynsky Burjatsky autonomous okrug	Birch	278.7	1360.4	12546.5	5089.9	10710.5	7980.9	37966.9	18814.6	4.69	0.477
Ust-Ordynsky Burjatsky autonomous okrug	Aspen	77.2	306.0	1566.2	818.9	1696.3	2941.8	7406.4	3675.3	5.41	0.373
Ust-Ordynsky Burjatsky autonomous okrug	Shrubs	5.5	87.1	427.8	3.5	0.0	0.0	524.0	253.4	1.52	1.087
Ust-Ordynsky Burjatsky autonomous okrug	Total	1831.1	6588.6	36778.5	17538.2	26916.9	39446.2	129099.7	64064.4	5.54	0.393
Evenkia autonomous okrug	Coniferous	29848.0	39880.7	337870.0	174995.7	1153088.6	1478328.1	3214011.1	1589949.6	3.71	0.425
Evenkia autonomous okrug	Pine	5007.6	7609.0	45561.8	16271.4	98963.3	146669.7	320082.7	157525.3	4.13	0.317
Evenkia autonomous okrug	Spruce	139.8	91.1	1766.6	3870.2	34349.3	51171.4	91388.5	44954.2	3.53	0.443
Evenkia autonomous okrug	Fir	10.3	12.6	155.8	136.5	778.2	775.3	1868.7	921.6	4.20	0.330
Evenkia autonomous okrug	Larch	22991.1	30075.5	261523.8	88219.0	929409.3	1263334.1	2595552.8	1285158.8	3.56	0.452
Evenkia autonomous okrug	Cedar	1699.2	2092.4	28862.1	66498.6	89588.5	16377.7	205118.5	101389.9	6.13	0.341
Evenkia autonomous okrug	Soft deciduous	4045.6	4103.6	27240.8	12039.6	73324.8	51517.5	172272.0	84862.4	2.88	0.492
Evenkia autonomous okrug	Birch	3935.5	4049.8	26680.1	11839.9	72320.2	47026.0	165851.5	81688.3	2.85	0.498
Evenkia autonomous okrug	Aspen	110.1	53.8	560.7	199.7	1004.7	4491.5	6420.5	3174.0	3.93	0.378
Evenkia autonomous okrug	Shrubs	39.5	406.4	40468.7	1803.1	5090.4	693.0	48501.0	22774.2	0.46	1.815
Evenkia autonomous okrug	Total	33933.1	44390.7	405579.5	188838.4	1231503.8	1530538.7	3434784.2	1697586.3	3.35	0.432
Republic Sakha (Jakutia)	Coniferous	117357.8	406043.2	1899360.4	738280.3	2578863.6	2180828.2	7920733.5	3912804.9	3.26	0.458
Republic Sakha (Jakutia)	Pine	7972.2	34210.3	153115.4	70765.4	210159.9	215416.9	691640.1	338885.1	3.42	0.325
Republic Sakha (Jakutia)	Spruce	78.3	276.3	2947.3	3237.6	11146.7	23743.4	41429.6	20450.4	5.58	0.441
Republic Sakha (Jakutia)	Fir	3.5	12.5	657.8	485.7	1004.2	308.1	2471.8	1221.1	5.82	0.318
Republic Sakha (Jakutia)	Larch	108874.9	368981.4	1705003.7	659513.2	2347524.4	1939947.9	7129845.6	3524865.3	3.23	0.478
Republic Sakha (Jakutia)	Cedar	428.8	2562.7	37636.2	4278.3	9028.5	1411.9	55346.4	27383.0	6.74	0.358
Republic Sakha (Jakutia)	Soft deciduous	3599.2	16409.9	43827.9	8504.6	13457.6	7106.1	92905.4	45771.7	2.24	0.515
Republic Sakha (Jakutia)	Birch	3413.7	15671.3	41046.6	6510.7	9066.5	2675.2	78384.1	38583.1	2.06	0.546
Republic Sakha (Jakutia)	Aspen	121.7	508.0	1218.6	992.9	3067.1	3299.0	9207.2	4562.5	4.67	0.377
Republic Sakha (Jakutia)	Shrubs	2085.6	78285.1	283203.2	39993.6	42876.1	19232.9	465676.7	223438.7	1.04	0.797
Republic Sakha (Jakutia)	Total	123042.7	500738.2	2226391.5	786778.5	2635197.4	2207167.3	8479315.6	4182015.3	2.91	0.469
Primorsky Krai	Coniferous	3549.1	9564.8	370617.8	160662.9	285418.8	144951.8	974765.2	483443.6	7.05	0.377
Primorsky Krai	Pine	34.3	50.0	14.7	32.1	83.4	12.4	226.9	111.9	3.18	0.392

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Primorsky Kray	Spruce	664.2	2536.2	40095.7	52349.4	195450.1	106816.5	397912.1	197270.1	7.22	0.396
Primorsky Kray	Fir	278.6	646.4	17784.6	11626.0	12359.1	1321.7	44016.3	21745.6	4.82	0.310
Primorsky Kray	Larch	1198.0	5298.0	57711.3	28562.5	57461.9	36780.1	187011.9	93059.1	7.21	0.420
Primorsky Kray	Cedar	1373.9	1034.3	255011.6	68092.9	20064.3	21.0	345598.0	171256.9	7.20	0.348
Primorsky Kray	Hard deciduous	1589.9	22218.3	136942.0	71954.7	172375.4	87842.9	492923.3	244344.8	7.25	0.611
Primorsky Kray	Oak	501.5	15480.6	115152.7	53649.7	84498.6	19327.4	288610.5	142994.3	6.53	0.606
Primorsky Kray	Soft deciduous	901.9	4368.5	67433.8	40489.2	91428.0	33217.3	237838.7	117968.1	5.95	0.504
Primorsky Kray	Birch	506.6	3029.7	50020.8	25164.4	31125.1	12376.0	122222.6	60573.1	5.01	0.484
Primorsky Kray	Aspen	54.0	553.2	4871.4	3646.3	7328.2	3918.4	20371.5	10095.5	4.79	0.393
Primorsky Kray	Other species	12.8	230.8	621.1	31.8	11.3	45.5	953.3	473.5	6.67	0.619
Primorsky Kray	Shrubs	6.4	244.6	1896.5	659.6	449.9	37.9	3294.9	1597.1	3.25	0.495
Primorsky Kray	Total	6060.1	36627.1	577511.3	273798.1	549683.4	266095.4	1709775.4	847827.1	6.91	0.442
Khabarovsk Kray	Coniferous	50208.7	158554.2	737248.2	440120.6	1351755.8	967894.7	3705782.3	1836856.2	4.76	0.427
Khabarovsk Kray	Pine	1826.5	1660.9	11182.7	7457.8	27691.1	28674.8	78493.9	38449.9	3.39	0.319
Khabarovsk Kray	Spruce	4172.1	11241.1	69348.7	84756.9	453876.2	355717.6	979112.6	484939.1	6.60	0.402
Khabarovsk Kray	Fir	830.8	2139.3	20620.0	13639.8	10489.2	1067.9	48786.9	24089.1	3.83	0.316
Khabarovsk Kray	Larch	42977.7	143069.5	594569.0	314958.2	847513.5	582077.8	2525165.6	1252605.1	4.32	0.448
Khabarovsk Kray	Cedar	401.6	443.5	41527.8	19307.9	12185.9	356.6	74223.3	36773.0	6.88	0.343
Khabarovsk Kray	Hard deciduous	2698.5	7242.2	22907.8	21782.2	110218.2	44482.8	209331.7	103734.9	7.27	0.620
Khabarovsk Kray	Oak	176.9	568.5	7161.9	6168.0	22445.2	5674.9	42195.4	20878.1	6.31	0.617
Khabarovsk Kray	Soft deciduous	11842.1	32388.7	132580.6	56901.4	114515.0	44462.2	392689.9	194245.2	3.47	0.495
Khabarovsk Kray	Birch	9196.1	25501.8	106990.7	39037.3	43945.9	13326.5	237998.2	117563.0	2.88	0.520
Khabarovsk Kray	Aspen	1815.5	4212.9	11351.1	6831.2	12582.4	8478.2	45271.2	22391.2	3.24	0.407
Khabarovsk Kray	Other species	51.9	61.9	117.2	115.0	99.0	0.0	445.0	219.7	2.45	0.584
Khabarovsk Kray	Shrubs	456.4	7117.4	292564.1	26321.2	11739.9	236.7	338435.7	163986.3	2.54	0.585
Khabarovsk Kray	Total	65257.6	205364.5	1185417.8	545240.4	1588327.9	1057076.3	4646684.6	2299042.2	4.41	0.447
Amur oblast	Coniferous	20686.4	68485.1	321371.4	219650.4	509245.7	296500.2	1435939.2	712285.0	4.79	0.447
Amur oblast	Pine	3154.1	9676.8	18376.8	4031.8	4704.2	1670.2	41613.9	20439.2	2.96	0.369
Amur oblast	Spruce	97.0	479.4	7509.3	10148.3	28275.9	15000.1	61510.0	30462.4	6.74	0.412
Amur oblast	Fir	22.8	188.2	1678.3	1549.0	1143.3	227.0	4808.8	2376.4	4.99	0.313
Amur oblast	Larch	17409.4	58140.6	293512.6	203592.5	474742.6	279593.5	1326991.3	658504.2	4.82	0.452
Amur oblast	Cedar	3.0	0.0	294.4	328.9	379.7	9.3	1015.2	502.9	6.17	0.333
Amur oblast	Hard deciduous	2733.1	8285.2	12160.0	4477.3	4329.0	959.6	32944.2	16263.7	3.17	0.638
Amur oblast	Oak	2581.5	7576.8	7657.0	3153.1	3576.0	915.8	25460.2	12559.2	2.83	0.625
Amur oblast	Soft deciduous	10301.0	28345.0	146198.4	67969.8	100478.8	18670.6	371963.8	183904.6	3.36	0.503
Amur oblast	Birch	9821.6	27310.2	140510.1	63310.2	92177.2	15025.8	348155.1	172100.2	3.30	0.509
Amur oblast	Aspen	360.7	695.3	3673.1	2484.0	5342.5	2118.2	14673.7	7270.0	4.13	0.395

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Amur oblast	Other species	0.0	5.8	5.2	9.8	0.0	0.0	20.8	10.3	2.95	0.710
Amur oblast	Shrubs	1524.8	9087.9	55739.9	3503.2	1413.6	293.8	71563.2	34493.6	1.56	0.578
Amur oblast	Total	35245.4	114209.0	535474.9	295610.5	615467.0	316424.3	1912431.1	946957.2	4.11	0.463
Kamchatka oblast	Coniferous	531.2	3155.6	5889.7	3322.2	18687.5	61647.0	93233.2	46259.0	6.22	0.419
Kamchatka oblast	Pine	87.4	342.9	3.7	0.0	0.0	0.0	434.0	211.8	1.32	0.339
Kamchatka oblast	Spruce	45.7	154.7	508.7	511.7	8346.2	20334.8	29901.8	14804.4	6.91	0.401
Kamchatka oblast	Fir	0.0	0.0	2.1	0.0	0.0	0.0	2.1	1.0	6.33	0.327
Kamchatka oblast	Larch	397.9	2658.0	5375.2	2810.5	10341.3	41312.2	62895.2	31241.7	6.09	0.430
Kamchatka oblast	Cedar	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.07	0.457
Kamchatka oblast	Hard deciduous	243.1	588.8	17023.1	28658.7	238621.3	191691.4	476826.5	235279.2	5.53	0.669
Kamchatka oblast	Soft deciduous	294.2	2041.7	15221.1	7948.3	22261.9	23898.7	71665.8	35375.8	3.73	0.462
Kamchatka oblast	Birch	216.4	915.3	5448.1	3498.6	16453.6	17846.0	44378.0	21901.0	3.98	0.504
Kamchatka oblast	Aspen	1.8	10.4	311.1	123.1	200.1	1119.8	1766.3	874.9	5.42	0.387
Kamchatka oblast	Other species	79.6	478.8	20701.1	439.8	116.9	16.7	21832.9	10667.1	1.06	0.445
Kamchatka oblast	Shrubs	123.5	1802.8	107539.9	12820.6	1652.9	9.4	123949.1	59996.4	2.15	0.620
Kamchatka oblast	Total	1271.6	8067.8	166374.8	53189.6	281340.5	277263.2	787507.3	387577.5	3.98	0.588
Magadan oblast	Coniferous	4026.0	7883.4	68000.2	28710.3	96843.2	111848.4	317311.4	155750.3	2.29	0.550
Magadan oblast	Pine	1.3	1.1	0.0	0.0	0.0	0.0	2.4	1.1	0.54	0.506
Magadan oblast	Spruce	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.3	1.28	0.702
Magadan oblast	Larch	4024.2	7882.3	68000.2	28710.3	96843.2	111848.4	317308.4	155748.9	2.29	0.550
Magadan oblast	Hard deciduous	1.9	6.2	565.5	57.5	4.9	0.0	636.0	314.0	4.07	0.731
Magadan oblast	Soft deciduous	144.8	370.4	6070.9	1484.4	8687.9	5844.3	22602.8	11193.4	4.72	0.411
Magadan oblast	Birch	0.1	6.6	164.3	84.2	158.5	90.3	503.9	247.3	2.35	0.545
Magadan oblast	Aspen	0.1	0.2	0.8	0.0	0.0	0.0	1.2	0.6	1.10	0.475
Magadan oblast	Shrubs	669.4	16110.9	46077.5	34598.5	45001.2	34430.1	176887.6	84466.3	0.87	0.685
Magadan oblast	Total	4842.3	24370.9	120714.1	64850.7	150537.2	152122.8	517437.9	251723.9	1.50	0.580
Sakhalinskaja oblast	Coniferous	5791.3	31337.6	96212.6	50829.3	99850.6	137307.7	421328.9	208639.3	5.31	0.393
Sakhalinskaja oblast	Pine	1040.6	1585.0	38.6	0.0	0.0	1.0	2665.2	1304.1	1.68	0.424
Sakhalinskaja oblast	Spruce	1370.4	4571.1	11569.9	9090.6	40511.1	89212.5	156325.6	77382.2	6.47	0.413
Sakhalinskaja oblast	Fir	1012.5	5919.7	44992.0	27734.1	31175.4	1905.9	112739.5	55721.7	5.52	0.315
Sakhalinskaja oblast	Larch	2364.7	19260.1	39612.0	14004.6	28164.1	46188.3	149593.9	74229.0	4.50	0.455
Sakhalinskaja oblast	Cedar	3.1	1.7	0.0	0.0	0.0	0.0	4.8	2.4	1.84	0.431
Sakhalinskaja oblast	Hard deciduous	1010.0	12798.9	33401.5	9172.7	26430.9	11987.0	94801.1	46800.4	4.28	0.696
Sakhalinskaja oblast	Oak	4.0	29.3	663.3	670.7	1457.5	0.0	2824.8	1397.9	5.33	0.548
Sakhalinskaja oblast	Soft deciduous	135.5	688.6	8467.5	3504.6	3637.9	1473.5	17907.6	8833.3	2.89	0.464
Sakhalinskaja oblast	Birch	99.7	344.8	3800.2	1995.4	2538.9	610.4	9389.4	4634.2	3.15	0.518
Sakhalinskaja oblast	Aspen	1.7	24.7	419.8	79.9	105.7	41.3	673.0	330.7	1.98	0.449

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

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Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Sakhalinskaja oblast	Other species	0.5	4.5	63.1	2.0	0.1	0.0	70.2	34.5	1.66	0.412
Sakhalinskaja oblast	Shrubs	15.8	915.8	16179.7	1435.2	192.9	1.3	18740.7	9076.6	2.85	0.500
Sakhalinskaja oblast	Total	6953.2	45745.4	154324.3	64943.7	130112.4	150769.4	552848.5	273384.1	4.84	0.430
Evreiskaja autonomous oblast	Coniferous	1485.9	2194.5	23572.2	13980.0	17889.5	4537.8	63659.8	31551.2	5.05	0.373
Evreiskaja autonomous oblast	Pine	65.1	129.1	0.2	0.0	0.0	0.0	194.5	95.1	1.42	0.419
Evreiskaja autonomous oblast	Spruce	169.2	401.5	3371.5	3112.5	9787.9	1991.0	18833.6	9334.9	5.93	0.400
Evreiskaja autonomous oblast	Fir	170.7	352.4	3257.4	2294.6	1677.9	33.9	7786.9	3846.4	3.84	0.311
Evreiskaja autonomous oblast	Larch	675.3	1242.8	2857.7	2542.2	4697.5	2512.9	14528.4	7216.6	4.10	0.439
Evreiskaja autonomous oblast	Cedar	405.6	68.6	14085.4	6030.6	1726.2	0.0	22316.4	11058.2	5.98	0.345
Evreiskaja autonomous oblast	Hard deciduous	614.3	4254.2	10832.0	6337.9	15880.3	10229.8	48148.5	23821.7	5.68	0.625
Evreiskaja autonomous oblast	Oak	198.6	3136.3	9032.8	5263.7	11703.6	7376.9	36711.8	18148.5	5.27	0.622
Evreiskaja autonomous oblast	Soft deciduous	316.2	2666.1	14029.3	6658.7	22027.0	11596.6	57293.9	28385.6	4.89	0.509
Evreiskaja autonomous oblast	Birch	249.2	1921.5	10823.5	3808.7	9101.5	2244.3	28148.6	13925.2	3.85	0.509
Evreiskaja autonomous oblast	Aspen	17.9	298.5	1691.7	1025.6	3325.3	2870.0	9229.1	4570.4	4.51	0.395
Evreiskaja autonomous oblast	Other species	2.2	44.7	9.8	6.2	10.0	7.1	80.0	39.7	4.42	0.842
Evreiskaja autonomous oblast	Total	2418.7	9159.5	48443.3	26982.8	55806.8	26371.2	169182.2	83798.3	5.15	0.470
Korjasky autonomous okrug	Coniferous	5.1	0.0	499.8	6388.7	11733.0	1991.1	20617.7	10121.5	2.42	0.548
Korjasky autonomous okrug	Larch	5.1	0.0	499.8	6388.7	11733.0	1991.1	20617.7	10121.5	2.42	0.548
Korjasky autonomous okrug	Hard deciduous	35.3	144.0	2823.3	15768.3	147697.8	53021.5	219490.2	108425.8	5.83	0.647
Korjasky autonomous okrug	Soft deciduous	35.5	389.8	10197.7	8593.9	11894.6	1947.5	33059.0	16318.7	3.33	0.464
Korjasky autonomous okrug	Birch	5.1	0.2	5840.8	6792.6	1425.4	55.1	14119.2	6976.3	3.73	0.515
Korjasky autonomous okrug	Shrubs	41.7	663.0	41858.2	77511.1	265169.6	493.6	385737.2	186909.2	2.64	0.562
Korjasky autonomous okrug	Total	117.7	1196.8	55379.0	108261.9	436495.1	57453.7	658904.2	321775.2	3.27	0.581
Chukotsky autonomous okrug	Coniferous	610.8	2423.7	13775.0	2914.6	14812.7	22877.5	57414.3	28014.5	1.62	0.596
Chukotsky autonomous okrug	Larch	610.8	2423.7	13775.0	2914.6	14812.7	22877.5	57414.3	28014.5	1.62	0.596
Chukotsky autonomous okrug	Soft deciduous	20.3	143.1	3024.4	1225.0	2730.7	449.4	7592.8	3752.4	3.67	0.441
Chukotsky autonomous okrug	Birch	0.0	0.0	5.0	6.1	1.8	2.6	15.4	7.6	2.48	0.554
Chukotsky autonomous okrug	Shrubs	20.6	6030.4	17004.9	10551.9	22020.5	191.8	55819.9	26645.8	0.81	0.881
Chukotsky autonomous okrug	Total	651.7	8597.2	33804.2	14691.5	39563.9	23518.6	120827.0	58412.7	1.14	0.681
Russian Federation	Coniferous	706872.3	2297281.4	11719508.8	6638125.4	15403671.7	13496213.7	50261673.3	24857884.9	4.57	0.403
Russian Federation	Pine	219159.5	879110.6	3398853.6	1553931.9	3109332.1	2746057.0	11906444.6	5872286.1	4.53	0.355
Russian Federation	Spruce	166837.4	388763.7	945606.7	967704.0	3418196.4	3388061.2	9275169.4	4582656.5	5.35	0.413
Russian Federation	Fir	16972.6	43787.4	281689.4	277349.5	713179.2	349042.6	1682020.7	831661.9	5.21	0.306
Russian Federation	Larch	262529.5	814237.2	4369116.5	2100885.5	7151596.6	6949182.9	21647548.2	10725468.2	4.00	0.457
Russian Federation	Cedar	41373.1	171382.1	2724227.7	1738229.8	1011309.4	63861.8	5750383.9	2845760.3	6.68	0.350
Russian Federation	Hard deciduous	20183.6	109931.4	717194.4	309447.5	941699.7	515001.7	2613458.3	1295040.3	6.77	0.601
Russian Federation	Oak	11162.4	63517.5	445068.1	165543.4	247856.0	63788.1	996935.4	494476.6	6.69	0.550

Phytomass of Russian forested areas by dominant species and age by administrative regions, 10³t dry matter

Administrative units	Species, group of species	Young I class	Young II class	Middle age	Immature	Mature	Over mature	Phytomass total	Carbon of phytomass	Density, kg C m ⁻²	Ratio, Mg m ⁻³
Russian Federation	Soft deciduous	190276.1	544584.4	4421699.8	2124430.4	3854395.4	3453382.6	14588768.6	7235416.2	4.94	0.445
Russian Federation	Birch	135676.5	390118.0	3639386.4	1634027.9	2803581.4	2196084.2	10798874.5	5353185.4	4.69	0.465
Russian Federation	Aspen	45887.8	119195.9	370064.3	320905.1	700352.0	1100981.7	2657386.8	1319714.5	5.47	0.365
Russian Federation	Other species	655.9	3939.7	23881.8	1886.8	7461.2	8714.4	46539.7	22952.5	1.67	0.424
Russian Federation	Shrubs	17194.1	200437.2	1170864.8	235895.4	462647.1	73671.8	2160710.4	1041033.2	1.40	0.665
Russian Federation	Total	935181.9	3156174.2	18053149.5	9309785.6	20669875.1	17546984.2	69671150.4	34452327.0	4.37	0.421