

Woodland in Cumbria: current and forecast

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Summary

This report is a digest of the published 2011 NFI forecast reports for Cumbria.

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Approach

The approach taken in the derivation and to be used in the interpretation of these results is described in the full suite of 2011 forecast reports which can be found at www.forestry.gov.uk/forecast.

Results

The results presented are those for Cumbria. Unless otherwise stated, the forecasts are based on "headline" harvesting scenarios which are fully described in the *Interpreting NFI timber volume forecasts* report.

2011 stocked area and standing volume

Refer to the *Standing timber volume in coniferous trees in Britain* and *NFI preliminary estimates of quantities of broadleaved species in British Woodlands with special focus on ash* reports for a description of the underlying methodologies and interpretation, also for the England and GB context.

Table 1 Stocked area by principal species at 31 March 2011 (FC and PS)

Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
Cumbria				
All conifers	12.4	15.6	7	28.0
Sitka spruce	9.0	7.4	13	16.4
Scots pine	0.4	1.7	28	2.1
Corsican pine	0.0	0.0	0	0.0
Norway spruce	0.5	1.7	29	2.2
Larches	1.3	4.1	17	5.5
Douglas fir	0.3	0.1	70	0.4
Lodgepole pine	0.6	0.3	57	1.0
Other conifers	0.2	0.3	53	0.5
All broadleaves	2.1	28.2	5	30.4
Oak	0.4	7.5	13	7.9
Beech	0.2	1.4	35	1.5
Sycamore	0.0	2.1	28	2.2
Ash	0.1	2.2	19	2.3
Birch	0.5	7.3	13	7.9
Sweet chestnut	0.0	0.0	106	0.0
Hazel	0.1	1.1	22	1.2
Hawthorn	0.0	0.9	26	0.9
Alder	0.0	2.4	27	2.5
Willow	0.0	1.5	48	1.5
Other broadleaves	0.7	1.6	22	2.3
All species	14.5	43.9	3	58.5

Table 2 Stocked area by age class at 31 March 2011 (FC and PS)

Age class (years)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
Conifers				
0-10	1.7	1.3	36	3.1
11-20	1.8	1.0	37	2.8
21-40	4.8	5.1	19	9.9
41-60	3.1	6.8	15	9.9
61-80	0.7	1.4	39	2.1
81-100	0.2	0.0	0	0.2
100+	0.0	0.0	0	0.0
Total	12.4	15.6	7	28.0
Broadleaves				
0-10	0.5	2.9	25	3.3
11-20	0.2	4.0	23	4.2
21-40	0.2	5.1	16	5.3
41-60	0.4	4.2	21	4.7
61-80	0.4	5.1	18	5.6
81-100	0.1	4.5	20	4.7
100+	0.3	2.3	33	2.6
Total	2.1	28.2	5	30.4
All species				
0-10	2.2	4.1	20	6.3
11-20	2.0	5.0	20	7.1
21-40	5.0	10.3	13	15.3
41-60	3.5	10.9	12	14.4
61-80	1.2	6.6	16	7.8
81-100	0.3	4.5	20	4.9
100+	0.3	2.4	34	2.7
Total	14.5	43.9	3	58.5

Note: For Tables 1-6 figures for FC are based on harvesting regimes derived from Forestry Commission felling and thinning plans as of 31 March 2011. The Private sector information for these tables is based on a regime that has no harvesting.

Table 3 Stocked area by mean stand dbh class at 31 March 2011 (FC and PS)

Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
Conifers				
0-7	2.3	1.4	34	3.7
7-10	0.7	0.7	44	1.4
10-15	3.2	1.8	28	5.0
15-20	3.1	1.4	33	4.5
20-30	1.8	5.0	17	6.8
30-40	0.6	3.1	20	3.8
40-60	0.6	2.2	27	2.8
60-80	0.0	0.0	107	0.1
80+	0.0	0.0	0	0.0
Total	12.4	15.6	7	28.0
Broadleaves				
0-7	0.5	4.5	23	5.0
7-10	0.3	3.3	17	3.6
10-15	0.7	2.3	21	3.0
15-20	0.3	3.4	22	3.7
20-30	0.3	5.5	16	5.8
30-40	0.0	2.9	20	2.9
40-60	0.0	3.0	21	3.0
60-80	0.0	2.4	31	2.4
80+	0.0	1.0	54	1.0
Total	2.1	28.2	5	30.4
All species				
0-7	2.8	5.9	19	8.7
7-10	1.0	4.0	16	5.1
10-15	3.9	4.1	17	8.0
15-20	3.4	4.8	19	8.2
20-30	2.0	10.5	11	12.6
30-40	0.7	6.0	14	6.6
40-60	0.6	5.2	17	5.8
60-80	0.0	2.4	31	2.5
80+	0.0	1.0	54	1.0
Total	14.5	43.9	3	58.5

Table 4 Standing volume by principal species at 31 March 2011 (FC and PS)

Principal species	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
Cumbria				
All conifers	2,471	4,546	9	7,016
Sitka spruce	1,805	2,191	18	3,996
Scots pine	74	436	25	511
Corsican pine	7	0	0	7
Norway spruce	64	479	34	544
Larches	268	1,193	20	1,461
Douglas fir	96	23	68	119
Lodgepole pine	106	73	89	178
Other conifers	50	164	68	214
All broadleaves	291	4,894	12	5,185
Oak	105	1,912	15	2,016
Beech	34	719	62	753
Sycamore	9	463	34	472
Ash	23	486	26	509
Birch	41	622	15	663
Sweet chestnut	0	0	0	0
Hazel	22	78	34	100
Hawthorn	0	41	42	41
Alder	3	403	30	407
Willow	0	28	30	28
Other broadleaves	53	85	36	139
All species	2,762	9,475	7	12,237

Table 5 Standing volume by age class at 31 March 2011 (FC and PS)

Age class (years)	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
Conifers				
0-10	1	1	80	2
11-20	55	66	47	121
21-40	1,006	1,456	24	2,462
41-60	1,059	2,647	17	3,706
61-80	249	374	40	624
81-100	93	1	97	94
100+	8	0	0	8
Total	2,471	4,546	9	7,016
Broadleaves				
0-10	0	2	53	2
11-20	2	45	24	47
21-40	8	671	20	679
41-60	71	780	27	851
61-80	89	1,362	20	1,451
81-100	36	1,077	21	1,113
100+	85	958	51	1,043
Total	291	4,894	12	5,185
All species				
0-10	1	3	45	4
11-20	57	108	33	165
21-40	1,013	2,136	18	3,150
41-60	1,130	3,414	15	4,544
61-80	339	1,761	18	2,100
81-100	129	1,083	21	1,212
100+	93	969	51	1,062
Total	2,762	9,475	7	12,237

Table 6 Standing volume by mean stand dbh class at 31 March 2011 (FC and PS)

Mean stand DBH (cm)	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
Conifers				
0-7	0	1	56	1
7-10	14	29	47	44
10-15	369	241	35	610
15-20	866	378	35	1,244
20-30	777	1,914	20	2,692
30-40	226	1,156	23	1,382
40-60	195	770	26	965
60-80	15	56	107	72
80+	7	0	0	7
Total	2,471	4,546	9	7,016
Broadleaves				
0-7	0	5	43	6
7-10	8	99	26	107
10-15	116	209	22	325
15-20	75	420	23	495
20-30	84	933	18	1,017
30-40	2	640	21	642
40-60	6	870	21	876
60-80	0	1,285	44	1,285
80+	0	433	50	433
Total	291	4,894	12	5,185
All species				
0-7	0	6	38	7
7-10	22	130	23	153
10-15	486	441	22	926
15-20	941	793	22	1,735
20-30	861	2,866	15	3,727
30-40	228	1,818	17	2,046
40-60	201	1,623	17	1,824
60-80	15	1,358	42	1,374
80+	7	438	50	445
Total	2,762	9,475	7	12,237

Standing volume and stocked area of Scots pine, Corsican pine and lodgepole pine may be susceptible to Dothistroma needle blight. Standing volume and stocked area of larches may be susceptible to Phytophthora. Please refer to the *Interpreting NFI timber volume forecasts* report for a full discussion of how Dothistroma needle blight and Phytophthora may influence the scheduling of production within the UK.

25-year forecast of standing volume

Refer to the *25-year forecast of softwood timber availability* report for a description of the underlying methodology and interpretation, also for the England and GB context.

The following volumes and areas have not been included in the main forecast results. See *25-year forecast of softwood timber availability* statistical report.

Note: The PS forecast assumes management according to a scenario based on felling at age of maximum mean annual increment with moderate wind risk measures. This approach has been used for Tables 7-11.

The application of this management scenario to broadleaves may be inappropriate and the implications have yet to be fully investigated. It is likely that the actual development of the BL standing volume, net increment and production over the next 25 years will form a different trajectory dependant on actual future harvesting. It is planned that future reports will include different scenarios (management assumptions) for evaluation purposes.

Table 7 Overdue volumes and areas for the FC and the Private sector

Principal species	FC	Private sector		FC	Private sector	
	volume (000 m ³ obs)		SE %	area (000 ha)		SE %
Marches						
All conifers	154	1,424	23	0.5	3.4	20
Sitka spruce	111	399	55	0.3	0.7	53
Scots pine	2	40	79	0.0	0.1	79
Corsican pine	1	0	0	0.0	0.0	0
Norway spruce	5	0	0	0.0	0.0	0
Larches	5	1,020	22	0.0	2.7	22
Douglas fir	6	18	87	0.0	0.1	91
Lodgepole pine	15	0	0	0.1	0.0	0
Other conifers	10	0	0	0.0	0.0	0
All broadleaves	1	2,208	16	0.0	8.3	14
Oak	0	796	32	0.0	2.3	27
Beech	0	6	106	0.0	0.0	106
Sycamore	0	288	49	0.0	0.8	38
Ash	0	323	34	0.0	1.1	29
Birch	0	308	22	0.0	2.3	25
Sweet chestnut	0	0	0	0.0	0.0	0
Hazel	0	18	61	0.0	0.1	58
Hawthorn	0	0	0	0.0	0.0	0
Alder	0	379	33	0.0	1.4	33
Willow	0	0	0	0.0	0.0	0
Other broadleaves	0	46	61	0.0	0.2	62
All species	155	3,639	14	0.5	11.7	11

Table 8 25-year forecast of average annual standing volume by species type and period

Forecast Period	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
Conifers				
2012-2016	2,411	3,286	12	5,696
2017-2021	2,374	3,467	13	5,841
2022-2026	2,300	3,220	12	5,519
2027-2031	2,163	2,452	14	4,615
2032-2036	2,129	1,971	13	4,100
Broadleaves				
2012-2016	302	2,114	11	2,416
2017-2021	324	1,747	12	2,071
2022-2026	346	1,498	12	1,844
2027-2031	372	1,371	11	1,743
2032-2036	398	1,573	10	1,971
All species				
2012-2016	2,712	5,427	8	8,140
2017-2021	2,698	5,228	10	7,926
2022-2026	2,646	4,712	9	7,358
2027-2031	2,535	3,788	10	6,323
2032-2036	2,527	3,493	9	6,021

Table 9 25-year forecast of average annual net increment by species type and period

Forecast period	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
Conifers				
2012-16	95	178	12	273
2017-21	119	174	11	292
2022-26	109	179	10	288
2027-31	104	156	10	260
2032-36	106	145	11	251
Broadleaves				
2012-16	5	84	13	89
2017-21	6	91	11	96
2022-26	6	98	10	104
2027-31	7	117	9	124
2032-36	6	150	8	156
All species				
2012-16	99	264	9	363
2017-21	124	264	8	388
2022-26	115	276	7	392
2027-31	111	271	6	382
2032-36	112	293	6	405

Table 10 Forecast of standing volume by age class for snapshot years

Conifers	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
2012				
0-20 years	50	37	46	88
21-40 years	996	1,535	23	2,531
41-60 years	1,207	1,545	21	2,752
61-80 years	346	33	84	379
81-100 years	133	1	97	135
100+ years	94	0	0	94
Total	2,531	3,151	12	5,682
2017				
0-20 years	53	15	53	68
21-40 years	1,024	1,576	25	2,600
41-60 years	937	1,731	21	2,668
61-80 years	352	41	65	393
81-100 years	115	2	97	117
100+ years	8	0	0	8
Total	2,489	3,365	13	5,854
2022				
0-20 years	43	81	23	124
21-40 years	1,164	1,150	28	2,314
41-60 years	669	2,040	22	2,709
61-80 years	382	315	49	697
81-100 years	171	0	0	171
100+ years	19	0	0	19
Total	2,449	3,585	13	6,034
2027				
0-20 years	38	270	21	308
21-40 years	830	655	33	1,485
41-60 years	872	1,476	24	2,348
61-80 years	374	383	41	757
81-100 years	160	0	0	160
100+ years	58	0	0	58
Total	2,332	2,784	14	5,115
2032				
0-20 years	93	345	20	438
21-40 years	587	314	29	901
41-60 years	840	1,271	27	2,111
61-80 years	306	287	36	593
81-100 years	225	0	0	225
100+ years	98	0	0	98
Total	2,150	2,217	15	4,367

Broadleaves	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
2012				
0-20 years	1	56	21	58
21-40 years	9	685	20	694
41-60 years	69	273	33	342
61-80 years	93	598	28	692
81-100 years	37	495	28	532
100+ years	85	0	0	85
Total	295	2,108	11	2,403
2017				
0-20 years	2	127	22	129
21-40 years	16	610	25	626
41-60 years	60	276	30	336
61-80 years	108	561	26	669
81-100 years	41	373	34	414
100+ years	88	0	0	88
Total	315	1,947	12	2,262
2022				
0-20 years	4	73	27	77
21-40 years	24	430	17	454
41-60 years	18	527	28	545
61-80 years	135	328	31	464
81-100 years	51	210	41	261
100+ years	106	0	0	106
Total	338	1,568	13	1,906
2027				
0-20 years	2	130	18	132
21-40 years	35	501	17	536
41-60 years	19	241	26	259
61-80 years	144	306	36	450
81-100 years	47	225	37	272
100+ years	117	0	0	117
Total	363	1,403	12	1,766
2032				
0-20 years	0	321	13	322
21-40 years	41	658	17	699
41-60 years	23	137	26	160
61-80 years	85	241	39	326
81-100 years	107	144	48	251
100+ years	132	4	108	136
Total	389	1,505	11	1,894

Table 10 (cont'd) Forecast of standing volume by age class for snapshot years

All species	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
2012				
0-20 years	50	90	24	141
21-40 years	996	2,228	18	3,224
41-60 years	1,207	1,818	19	3,024
61-80 years	346	639	26	985
81-100 years	133	503	28	637
100+ years	94	0	0	94
Total	2,826	5,279	8	8,104
2017				
0-20 years	55	138	21	193
21-40 years	1,040	2,186	20	3,226
41-60 years	997	2,022	19	3,019
61-80 years	460	610	25	1,070
81-100 years	156	380	34	536
100+ years	96	0	0	96
Total	2,804	5,336	9	8,140
2022				
0-20 years	47	151	18	198
21-40 years	1,188	1,552	22	2,740
41-60 years	687	2,607	19	3,295
61-80 years	517	635	30	1,152
81-100 years	222	213	41	435
100+ years	125	0	0	125
Total	2,787	5,158	10	7,945
2027				
0-20 years	39	398	15	437
21-40 years	865	1,166	21	2,032
41-60 years	891	1,666	23	2,557
61-80 years	518	703	28	1,221
81-100 years	207	229	37	435
100+ years	175	0	0	175
Total	2,695	4,161	10	6,856
2032				
0-20 years	93	658	12	752
21-40 years	628	970	15	1,598
41-60 years	863	1,364	27	2,227
61-80 years	392	539	27	931
81-100 years	333	146	48	479
100+ years	230	4	108	234
Total	2,539	3,681	10	6,220

Table 11 Forecast of standing volume by mean stand dbh class for snapshot years

Conifers	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
2012				
0-7 cm	0	1	49	1
7-10 cm	14	24	46	38
10-15 cm	364	213	40	577
15-20 cm	902	325	32	1,227
20-30 cm	800	1,821	21	2,622
30-40 cm	225	503	34	728
40-60 cm	201	248	41	449
60-80 cm	16	16	107	32
80+ cm	8	0	0	8
Total	2,531	3,151	12	5,682
2017				
0-7 cm	0	1	83	1
7-10 cm	13	6	38	19
10-15 cm	219	114	35	332
15-20 cm	941	317	37	1,258
20-30 cm	795	1,730	22	2,525
30-40 cm	267	648	42	914
40-60 cm	221	550	33	771
60-80 cm	21	0	0	21
80+ cm	12	0	0	12
Total	2,489	3,365	13	5,854
2022				
0-7 cm	0	3	42	3
7-10 cm	14	60	27	74
10-15 cm	184	84	39	268
15-20 cm	891	251	51	1,142
20-30 cm	860	1,790	21	2,650
30-40 cm	219	717	40	936
40-60 cm	226	681	31	907
60-80 cm	42	0	0	42
80+ cm	13	0	0	13
Total	2,449	3,585	13	6,034
2027				
0-7 cm	0	1	66	1
7-10 cm	16	61	29	77
10-15 cm	207	226	24	433
15-20 cm	747	332	48	1,079
20-30 cm	857	739	28	1,595
30-40 cm	232	935	30	1,167
40-60 cm	220	441	35	660
60-80 cm	46	49	52	95
80+ cm	8	0	0	8
Total	2,332	2,784	14	5,115
2032				
0-7 cm	0	1	107	1
7-10 cm	29	44	36	72
10-15 cm	185	211	28	396
15-20 cm	665	360	25	1,025
20-30 cm	730	511	29	1,241
30-40 cm	253	758	38	1,011
40-60 cm	223	233	34	455
60-80 cm	55	100	62	155
80+ cm	11	0	0	11
Total	2,150	2,217	15	4,367

Broadleaves	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
2012				
0-7 cm	0	13	27	13
7-10 cm	9	56	18	64
10-15 cm	117	214	23	331
15-20 cm	76	288	31	364
20-30 cm	84	434	28	518
30-40 cm	2	390	33	392
40-60 cm	6	384	28	390
60-80 cm	0	330	43	330
80+ cm	0	0	0	0
Total	295	2,108	11	2,403
2017				
0-7 cm	0	53	38	53
7-10 cm	12	102	19	114
10-15 cm	79	182	25	260
15-20 cm	129	292	30	421
20-30 cm	87	488	32	575
30-40 cm	3	357	37	360
40-60 cm	7	345	30	352
60-80 cm	0	55	83	55
80+ cm	0	73	85	73
Total	315	1,947	12	2,262
2022				
0-7 cm	0	22	27	22
7-10 cm	14	157	27	171
10-15 cm	76	285	19	360
15-20 cm	140	147	27	287
20-30 cm	92	285	31	378
30-40 cm	9	351	41	360
40-60 cm	7	258	34	265
60-80 cm	0	64	73	64
80+ cm	0	0	0	0
Total	338	1,568	13	1,906
2027				
0-7 cm	0	27	27	27
7-10 cm	16	257	24	273
10-15 cm	50	183	27	233
15-20 cm	167	299	19	466
20-30 cm	112	169	25	280
30-40 cm	11	259	40	270
40-60 cm	7	185	39	192
60-80 cm	0	24	62	24
80+ cm	0	0	0	0
Total	363	1,403	12	1,766
2032				
0-7 cm	0	58	30	58
7-10 cm	15	254	13	269
10-15 cm	65	254	29	318
15-20 cm	177	264	24	441
20-30 cm	110	350	19	460
30-40 cm	16	174	52	189
40-60 cm	7	62	40	68
60-80 cm	0	90	64	90
80+ cm	0	0	0	0
Total	389	1,505	11	1,894

Table 11 (cont'd) Forecast of standing volume by mean stand dbh class for snapshot years

All species	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
2012				
0-7 cm	0	14	25	14
7-10 cm	23	81	19	104
10-15 cm	482	437	23	918
15-20 cm	978	584	25	1,562
20-30 cm	885	2,273	18	3,158
30-40 cm	227	913	24	1,140
40-60 cm	207	626	24	834
60-80 cm	16	350	41	366
80+ cm	8	0	0	8
Total	2,826	5,279	8	8,104
2017				
0-7 cm	0	53	38	53
7-10 cm	24	109	18	133
10-15 cm	297	302	21	599
15-20 cm	1,070	592	25	1,662
20-30 cm	882	2,229	18	3,110
30-40 cm	269	1,026	30	1,296
40-60 cm	228	896	24	1,124
60-80 cm	21	56	83	77
80+ cm	12	73	85	86
Total	2,804	5,336	9	8,140
2022				
0-7 cm	0	21	24	21
7-10 cm	28	217	21	245
10-15 cm	259	375	17	634
15-20 cm	1,030	407	34	1,437
20-30 cm	952	2,041	20	2,993
30-40 cm	228	1,092	30	1,320
40-60 cm	233	941	25	1,174
60-80 cm	42	65	74	106
80+ cm	13	0	0	13
Total	2,787	5,158	10	7,945
2027				
0-7 cm	0	29	26	29
7-10 cm	32	312	20	344
10-15 cm	257	410	18	666
15-20 cm	914	643	27	1,557
20-30 cm	969	866	24	1,834
30-40 cm	243	1,188	26	1,431
40-60 cm	226	640	27	867
60-80 cm	46	75	40	120
80+ cm	8	0	0	8
Total	2,695	4,161	10	6,856
2032				
0-7 cm	0	60	30	60
7-10 cm	44	290	12	334
10-15 cm	249	465	21	714
15-20 cm	842	625	17	1,466
20-30 cm	840	872	19	1,712
30-40 cm	268	874	34	1,143
40-60 cm	229	302	28	531
60-80 cm	55	194	45	249
80+ cm	11	0	0	11
Total	2,539	3,681	10	6,220

Supporting reports and papers

The principal themes reported on for the coniferous woodlands forecasts are:

GB 2011 preliminary estimates of broadleaved species

GB 2011 standing coniferous timber volume

UK 25-year forecast of softwood availability

GB 25-year forecast of coniferous standing volume and increment

Each theme has a series of associated reports, papers and data, tailored for different audiences and uses. All the documents and data can be found on the NFI website

www.forestry.gov.uk/inventory.

Glossary

A glossary of terms is presented in the full suite of forecast reports which can be found at

www.forestry.gov.uk/forecast.

Official Statistics

This is an Official Statistics publication. More information about Official Statistics and the UK Statistics Authority is available at www.statisticsauthority.gov.uk

National Forest Inventory Statistician: Alan Brewer