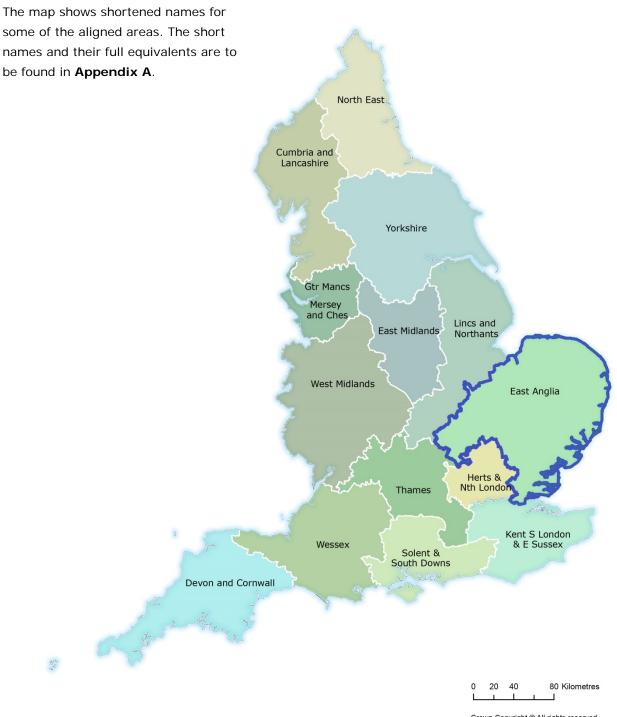


National Forest Inventory statistics for East Anglia

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East Anglia

Map 1 Map of England and the aligned areas



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Key findings for East Anglia

East Anglia (EAN) has a land area of 1,701,800 hectares making it 1st out of the 14 aligned areas by land area. With 132,940 ha of woodland, EAN ranks 2nd out of 14 in terms of woodland area (8% woodland cover). Some 18% of the woodland is under Forestry Commission ownership or management.

Corsican pine is the most commonly occurring of the conifer species whether assessed by stocked area (50%), standing volume (46%) or number of trees (67%).

Oak is the most commonly occurring of the broadleaved species when assessed by stocked area (19%) and standing volume (31%). Ash is the most commonly occurring of the broadleaved species when assessed by number of trees (13%).

Some 10% of standing coniferous volume is beyond the age of maximum mean annual increment (or above terminal height of 25m in higher windthrow risk areas). The harvesting assumptions applied in the forecast assume that a proportion of this volume will be felled over a period of time from the start of the forecast. Some 36% of conifer and mixed broadleaf/conifer sections (PS only) show evidence of thinning.

Overall 55% of standing broadleaved volume is beyond the age of maximum mean annual increment (or above terminal height of 25m in higher windthrow risk areas). Some 9% of broadleaved sections (PS only) show evidence of thinning.

Across EAN:

- Ash is estimated as 9% of total stocked area (13% of broadleaved stocked area), 10% of standing volume (15% of broadleaved standing volume) and 10% of the number of trees (13% of the number of broadleaved trees).
- Oak is estimated as 14% of total stocked area (19% of broadleaved stocked area), 21% of standing volume (31% of broadleaved standing volume) and 9% of the number of trees (11% of the number of broadleaved trees).
- Sweet chestnut is estimated as 3% of total stocked area (4% of broadleaved stocked area), 4% of standing volume (6% of broadleaved standing volume) and 2% of the number of trees (3% of the number of broadleaved trees).
- Larch is estimated as 2% of total stocked area (6% of conifer stocked area), 2% of standing volume (6% of conifer standing volume) and 1% of the number of trees (4% of the number of conifer trees).

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Introduction

National forest inventories are carried out by the Forestry Commission to provide accurate, up-to-date information about the size, distribution, composition and condition of the forests and woodlands in Great Britain (GB). This information is essential for developing and monitoring policies and guidance to support sustainable forest management.

The current National Forest Inventory (NFI), which began in 2010, is a multipurpose operation that has involved the production of a forest and woodland map for Britain and a continuing programme of field surveys (the first cycle of field surveys completed in late 2015) of the mapped forest and woodland areas.

Information and data collected by the National Forest Inventory is being used for a number of purposes, including estimates and 25-year forecasts of forest metrics such as:

- standing volume
- timber availability
- tree growth and increment
- carbon stocks
- biomass

Estimates of aspects of the biodiversity and social value of forests and woodlands will also be provided by the NFI.

This report brings together key woodland information for England previously published across the range of NFI thematic reports. Within the NFI programme, results are presented by the NUTS 1 boundaries^{*}. This report heads a series of reports where the woodland statistics are broken down by aligned area. The data sources and methodology covering the suite of reports is to found in the report for England and the aligned areas.

^{*} See <u>http://ec.europa.eu/eurostat/web/nuts/overview</u> for a description of the Nomenclature of territorial units for statistics (NUTS) classification system.

How the estimates are prepared

The methodology, data sources and assumptions are described in the England report. It is important that the estimates presented in this report are interpreted in the light of the information provided in the England report.

The methodology introduces the sub-compartment database and the National Forest Inventory. It describes the metrics presented in this report and how they are derived. The methodology covers how the FC and private sector (PS) forecasts are prepared and includes commentary on the assumptions made in order to calculate the forecast estimates. Finally the methodology covers the tree health metrics.

Note on the estimates

The values in the tables have been independently rounded, so may not add to the totals shown. In some breakdowns of Private sector estimates, the estimates in the body of the table may not sum to the quoted total because each individual value, including the total, has been independently generated by the estimation procedure used for results from the NFI sample survey. Sampling standard errors attached to Private sector estimates are expressed in relative terms (%) to the right of the relevant estimate and as \pm error bars in the figures. Percentages in the pie charts may also not sum to 100 due to rounding.

Due to biological and sampling constraints, for example where there is a very small population of a species within a particular region, the estimates may have a high associated standard error. Since this indicates a high level of uncertainty around those estimates then caution should be used when drawing any conclusions from these values as the estimate may not be representative of the real population. Such estimates have been 'lowlighted' in the tables.

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Suitability for harvesting	
Distance to road	55

Type of road or ride	
Mean yield class	57
Overdue timber stocks	
Overdue volume and area	59

Woodland area statistics

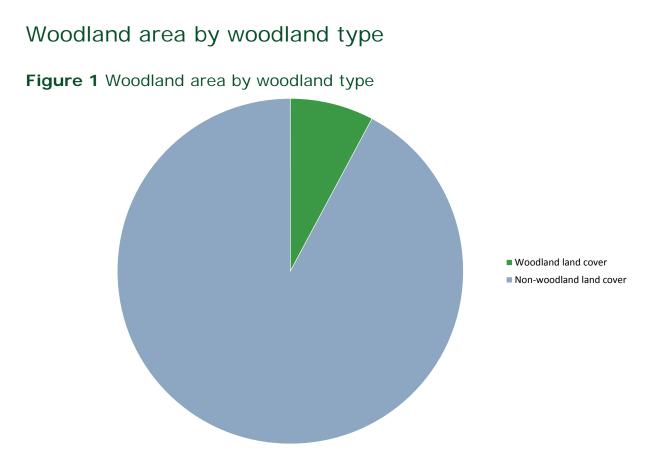


Table 1 Woodland area by woodland type

Woodland Type	Area (ha)	%
East Anglia		
Woodland	129,892	98%
Assumed woodland	2,026	2%
Low density	1,022	1%
Total mapped woodland	132,940	100%
Non-woodland area	1,568,860	
Land area	1,701,800	
Woodland land cover		8%
Non-woodland land cover		92%

Woodland area by ownership

Figure 2 Woodland area by ownership

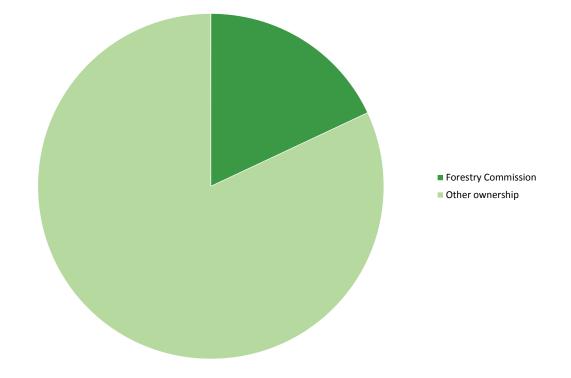


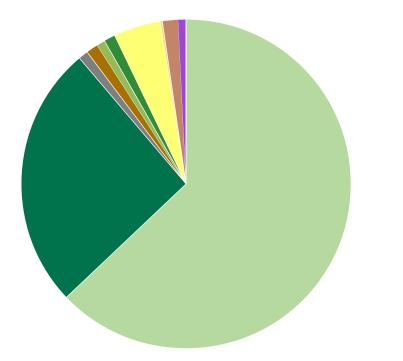
Table 2 Woodland area by ownership

Ownership	Area (ha)	% Woodland
East Anglia		
Forestry Commission	23,939	18%
Other ownership	109,001	82%
Total area of woodland	132,940	100%

Part 2 - what our woodlands are like today

Woodland area by interpreted forest type

Figure 3 Woodland area by interpreted forest type





- Conifer
- Felled
- Ground prep
- Mixed mainly broadleaved
- Mixed mainly conifer
- Young trees
- Coppice
- Coppice with standards
- Shrub
- Assumed woodland
- Low density
- Failed
- Windthrow
- Cloud/shadow/uncertain

Table 3 Woodland area by interpreted forest type

Forest type	st type Total area (ha)		% of total area
East Anglia			
Broadleaved		83,639	63%
Conifer		34,440	26%
Felled		1,261	1%
Ground prep		1,571	1%
Mixed mainly broadleaved		1,084	1%
Mixed mainly conifer		1,477	1%
Young trees		6,126	5%
Coppice		52	0%
Coppice with standards		6	0%
Shrub		232	0%
Assumed woodland		2,026	2%
Low density		1,022	1%
Failed		0	0%
Windthrow		0	0%
Cloud/shadow/uncertain		4	0%
TOTALS		132,940	100%

Go to Part 2

Woodland area by interpreted forest type and woodland size

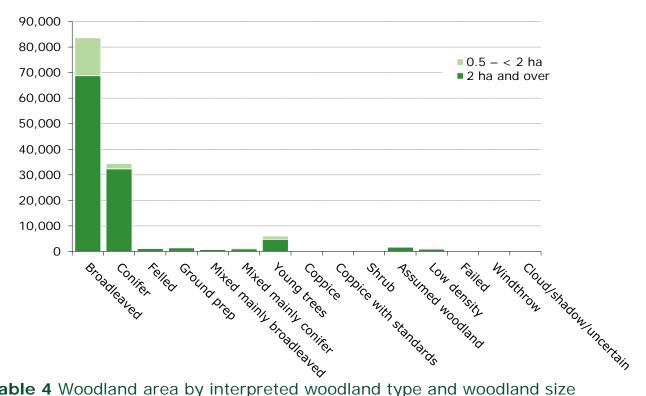


Figure 4 Woodland area by interpreted forest type and woodland size

 Table 4 Woodland area by interpreted woodland type and woodland size

Foract type	Woodland size		Total area
Forest type	2 ha and over	0.5 – < 2 ha	(ha)
East Anglia			
Broadleaved	68,815	14,824	83,639
Conifer	32,355	2,085	34,440
Felled	1,239	22	1,261
Ground prep	1,481	106	1,587
Mixed mainly broadleaved	784	309	1,093
Mixed mainly conifer	1,064	455	1,519
Young trees	4,764	1,296	6,060
Coppice	45	6	52
Coppice with standards	6	0	6
Shrub	158	74	232
Assumed woodland	1,716	309	2,026
Low density	961	61	1,022
Failed	0	0	0
Windthrow	0	0	0
Cloud/shadow/uncertain	4	0	4
TOTALS	113,392	19,548	132,940

National Forest Inventory statistics for East Anglia 20

Woodland area by interpreted forest type and ownership

Figure 5 Woodland area by interpreted forest type and ownership

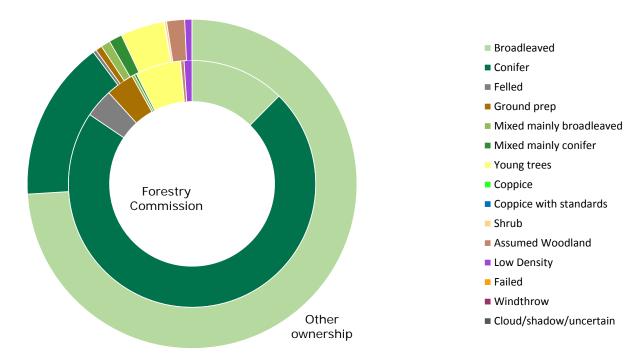


Table 5 Woodland area by interpreted forest type and ownership

	Forestry Commission		Other ownership	
Forest type	Area (ha) % of Area (ha)		Area (ha)	% of total area
East Anglia				
Broadleaved	2,971	12%	80,669	74%
Conifer	17,254	72%	17,186	16%
Felled	897	4%	364	0%
Ground prep	881	4%	691	1%
Mixed mainly broadleaved	87	0%	997	1%
Mixed mainly conifer	69	0%	1,408	1%
Young trees	1,420	6%	4,706	4%
Coppice	3	0%	48	0%
Coppice with standards	0	0%	6	0%
Shrub	4	0%	228	0%
Assumed Woodland	106	0%	1,920	2%
Low Density	247	1%	775	1%
Failed	0	0%	0	0%
Windthrow	0	0%	0	0%
Cloud/shadow/uncertain	0	0%	4	0%
TOTALS	23,939	100%	109,001	100%

Woodland area by interpreted forest type, woodland size and ownership

 Table 6 Woodland area by interpreted forest type, woodland size and ownership

	2 ha and over		0.5 – -	Total area		
Forest type	Forestry Commission	Other	Forestry Commission	Other	(ha)	
East Anglia						
Broadleaved	2,967	65,849	4	14,820	83,639	
Conifer	17,251	15,104	3	2,081	34,440	
Felled	897	341	0	22	1,261	
Ground prep	881	600	0	91	1,571	
Mixed mainly broadleaved	87	697	0	300	1,084	
Mixed mainly conifer	69	995	0	414	1,477	
Young trees	1,420	3,342	0	1,363	6,126	
Coppice	3	42	0	6	52	
Coppice with standards	0	6	0	0	6	
Shrub	4	154	0	74	232	
Assumed woodland	106	1,610	0	310	2,026	
Low Density	247	715	< 1	60	1,022	
Failed	0	0	0	0	0	
Windthrow	0	0	0	0	0	
Cloud/shadow/uncertain	0	4	0	0	4	
Totals	23,931	89,460	8	19,541	132,940	

Woodland area by size class distribution



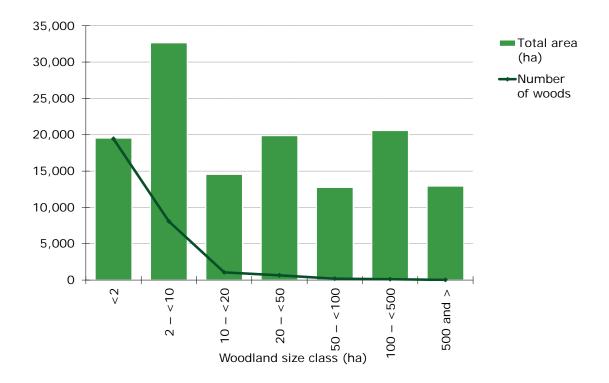


Table 7 Woodland area by size class distribution

Size class (ha)	Total area (ha)	Number of woods	% of total area	Mean wood area (ha)
East Anglia				
<2	19,548	19,434	15%	1
2 - <10	32,658	8,071	25%	4
10 - <20	14,559	1,058	11%	14
20 - <50	19,879	651	15%	31
50 - <100	12,756	190	10%	67
100 - <500	20,594	115	15%	179
500 and >	12,947	13	10%	996
All woods	132,940	29,532	100%	5

Open areas in woodland by land use type

Figure 7 Open areas in woodland by land use type

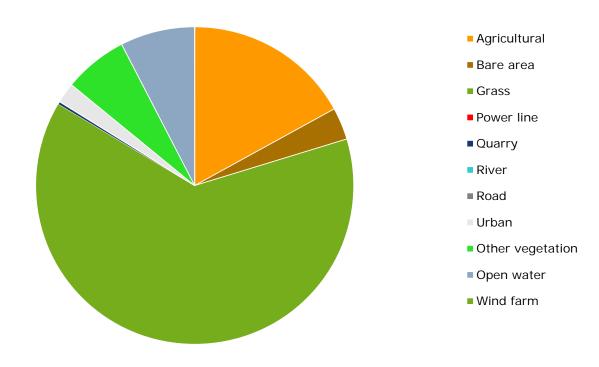


Table 8 Open areas in woodland by land use type

Interpreted open area	Total area (ha)	% of total area
East Anglia		
Agricultural	466	17%
Bare area	89	3%
Grass	1,738	63%
Power line	0	0%
Quarry	7	0%
River	0	0%
Road	< 1	0%
Urban	56	2%
Other vegetation	178	6%
Open water	208	8%
Wind farm	0	0%
TOTALS	2,743	100%

Net area under canopy

Stocked area by species

Figure 8 Stocked area by principal tree species

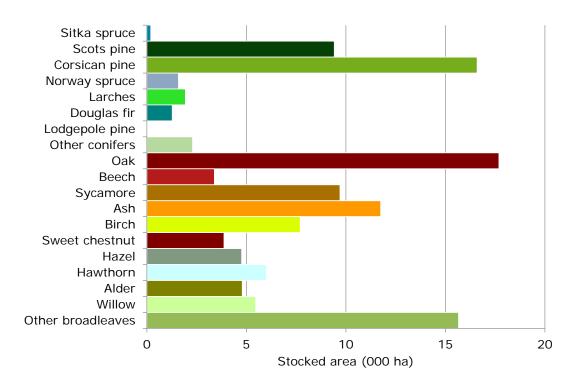


Table 9 Stocked area by principal tree species

	FC	Private secto	or	Total
Principal species	area (000 ha)	area (000 ha)	SE%	area (000 ha)
Conifers			· · · · · ·	
Sitka spruce	< 0.1	0.2	71	0.2
Scots pine	3.3	6.1	13	9.4
Corsican pine	13.0	3.6	19	16.6
Norway spruce	< 0.1	1.5	24	1.6
Larches	0.3	1.6	22	1.9
Douglas fir	0.6	0.7	30	1.3
Lodgepole pine	< 0.1	0.0	-	< 0.1
Other conifers	0.3	2.0	23	2.3
All conifers	17.6	15.7	7	33.3
Broadleaves				
Oak	0.9	16.8	8	17.7
Beech	0.9	2.5	22	3.4
Sycamore	0.2	9.5	12	9.7
Ash	0.2	11.5	10	11.7
Birch	0.7	7.1	14	7.7
Sweet chestnut	< 0.1	3.8	21	3.9
Hazel	< 0.1	4.7	18	4.8
Hawthorn	< 0.1	6.0	14	6.0
Alder	0.1	4.7	21	4.8
Willow	< 0.1	5.5	18	5.5
Other broadleaves	1.1	14.6	9	15.7
All broadleaves	4.1	86.8	2	90.9
All species				
All species	21.7	102.5	1	124.2

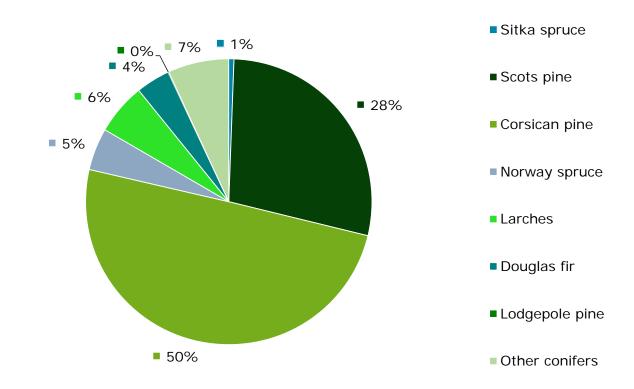
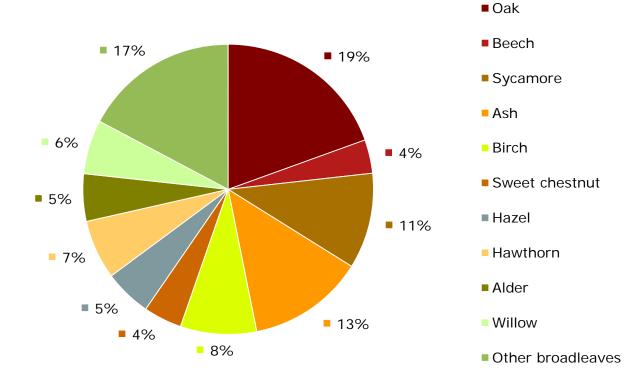


Figure 9 Stocked area by principal conifer species





Stocked area by age class

Figure 11 Stocked area by age class

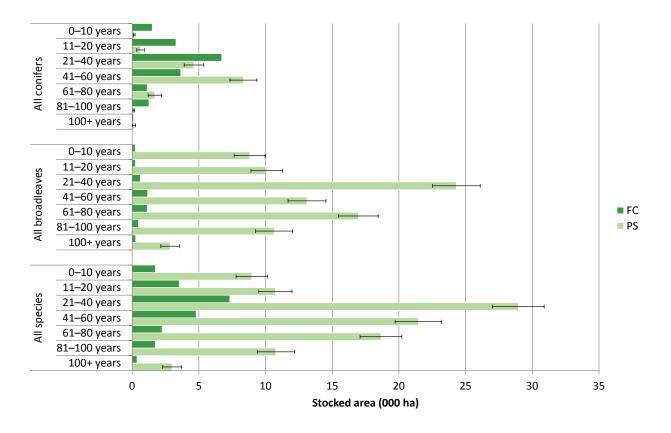


Table 10 Stocked area by age class

	FC	Private sector		Total
Age class (years)	area (000 ha)	area (000 ha)	SE%	area (000 ha)
All conifers				
0–10	1.5	0.2	42	1.7
11–20	3.3	0.6	45	3.9
21–40	6.7	4.6	16	11.3
41–60	3.6	8.3	12	12.0
61–80	1.1	1.7	29	2.8
81–100	1.3	0.1	42	1.4
100+	< 0.1	0.1	80	0.2
Total	17.6	15.7	7	33.3
All broadleaves				
0–10	0.2	8.8	13	9.0
11–20	0.2	10.1	12	10.3
21–40	0.6	24.3	7	24.9
41–60	1.2	13.1	11	14.3
61–80	1.1	16.9	9	18.1
81–100	0.5	10.6	13	11.1
100+	0.3	2.8	24	3.1
Total	4.1	86.8	2	90.9
All species		,	· · · · · ·	
0–10	1.7	9.0	13	10.7
11–20	3.5	10.7	12	14.3
21–40	7.3	29.0	7	36.3
41–60	4.8	21.5	8	26.3
61–80	2.2	18.7	8	20.9
81–100	1.7	10.8	13	12.5
100+	0.4	3.0	24	3.4
Total	21.7	102.5	1	124.2

Stocked area by mean stand dbh class

Figure 12 Stocked area by mean stand dbh class

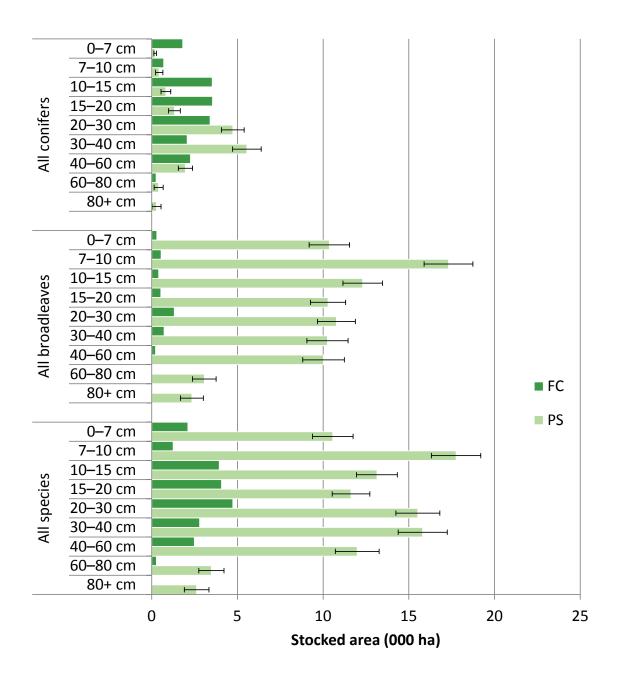


Table 11 Stocked area by mean stand dbh class

Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
All conifers			, in the second s	
0–7	1.8	0.2	35	2.0
7–10	0.7	0.4	49	1.1
10–15	3.5	0.8	34	4.4
15–20	3.5	1.3	26	4.9
20–30	3.4	4.7	14	8.1
30–40	2.1	5.5	15	7.6
40–60	2.3	2.0	21	4.2
60–80	0.3	0.4	65	0.7
80+	< 0.1	0.3	95	0.3
Total	17.6	15.7	7	33.3
All broadleaves				
0–7	0.3	10.4	11	10.7
7–10	0.5	17.3	8	17.9
10–15	0.4	12.3	9	12.7
15–20	0.5	10.3	10	10.8
20–30	1.3	10.8	10	12.1
30–40	0.7	10.3	12	11.0
40–60	0.2	10.0	12	10.3
60–80	< 0.1	3.1	22	3.1
80+	< 0.1	2.3	29	2.3
Total	4.1	86.8	2	90.9
All species				
0–7	2.1	10.6	11	12.7
7–10	1.3	17.8	8	19.0
10–15	3.9	13.1	9	17.1
15–20	4.1	11.6	9	15.7
20–30	4.7	15.5	8	20.3
30–40	2.8	15.8	9	18.6
40–60	2.5	12.0	11	14.5
60–80	0.3	3.5	21	3.8
80+	< 0.1	2.6	27	2.6
Total	21.7	102.5	1	124.2

Clearfelled area

Table 12 Clearfelled area

Clearfelled area	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia	0.7	0.9	50	1.5

Comparison of mapped area estimates and stocked area estimates

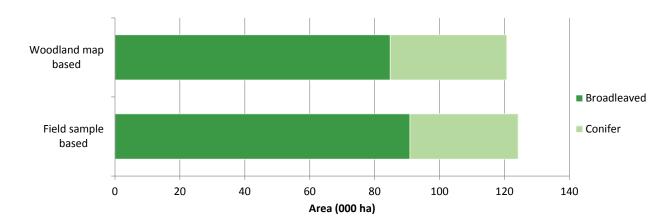


Figure 13 Simplified comparison of mapped area and stocked area

Table 13 Simplified comparison of mapped area and stocked area

	Woodland map based	Field sample based	
	area (000 ha)		
East Anglia			
Broadleaved	84.8	90.9	
Conifer	35.9	33.3	

The broadleaved class includes broadleaved, mixed mainly broadleaved, coppice and coppice with standards. The conifer class includes conifer and mixed mainly conifer. The transition class is excluded from this table as it is not possible to differentiate between conifer and broadleaves with aerial photography interpretation. The area of young trees is included in the field sample based estimates.

Standing volume

Standing volume by species

Figure 14 Standing volume by principal tree species

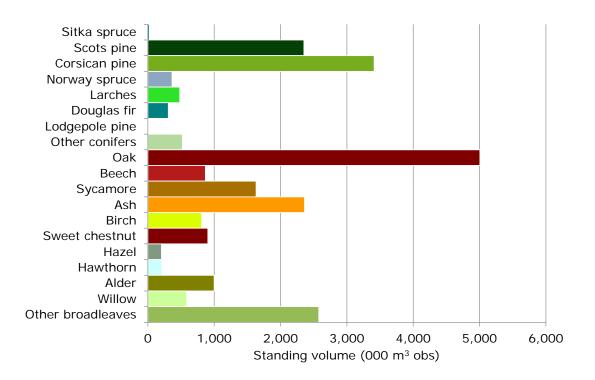


Table 14 Standing volume by principal tree species

	FC	Private sector		Total
Principal species	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
Conifers		(000 111 003)		
Sitka spruce	< 1	21	70	21
Scots pine	768	1,584	14	2,352
Corsican pine	2,336	1,075	19	3,411
Norway spruce	15	349	29	364
Larches	35	446	22	481
Douglas fir	118	189	34	307
Lodgepole pine	6	0	-	6
Other conifers	105	415	32	520
All conifers	3,383	4,079	8	7,462
Broadleaves				
Oak	144	4,861	12	5,005
Beech	151	716	24	867
Sycamore	18	1,613	18	1,631
Ash	36	2,326	14	2,362
Birch	54	755	17	809
Sweet chestnut	13	891	29	904
Hazel	4	202	22	206
Hawthorn	< 1	209	19	209
Alder	12	986	29	999
Willow	< 1	585	27	586
Other broadleaves	105	2,471	19	2,577
All broadleaves	538	15,643	5	16,181
All species				
All species	3,921	19,730	4	23,651

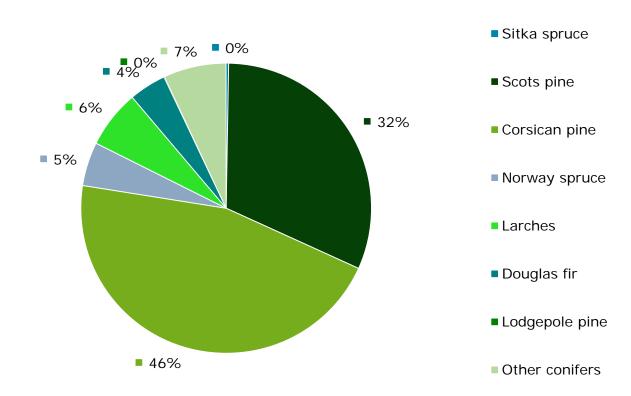
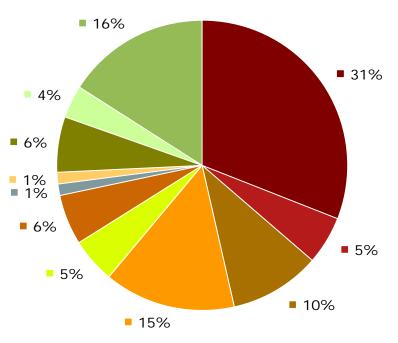


Figure 15 Standing volume by principal conifer species







Standing volume by age class



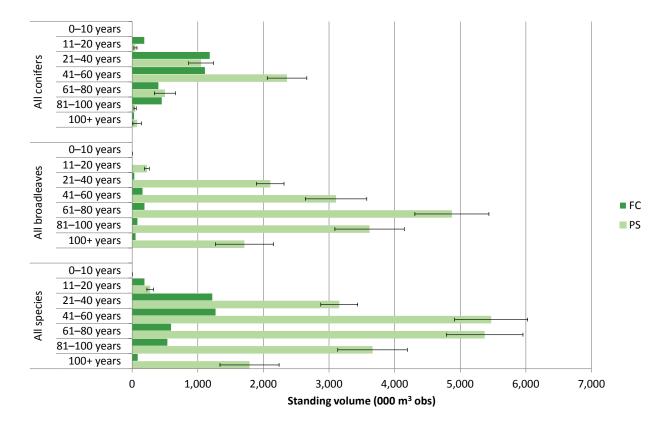
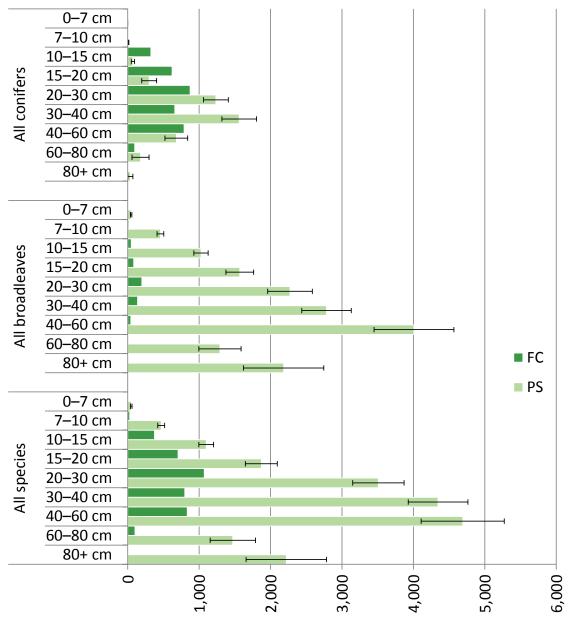


Table 15 Standing volume by age class

	FC	Private secto	or	Total
Age class (years)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
All conifers				
0–10	< 1	< 1	106	< 1
11–20	188	49	49	238
21–40	1,187	1,049	18	2,237
41–60	1,114	2,360	13	3,473
61–80	405	499	32	904
81–100	456	45	40	501
100+	33	77	84	109
Total	3,383	4,079	8	7,462
All broadleaves				
0–10	< 1	4	34	4
11–20	4	225	16	229
21–40	38	2,105	10	2,143
41–60	162	3,108	15	3,270
61–80	193	4,872	12	5,065
81–100	85	3,618	15	3,703
100+	57	1,711	26	1,768
Total	538	15,643	5	16,181
All species				
0–10	< 1	4	33	4
11–20	193	275	18	467
21–40	1,225	3,156	9	4,381
41–60	1,275	5,471	10	6,747
61–80	597	5,373	11	5,970
81–100	541	3,664	14	4,204
100+	89	1,788	25	1,877
Total	3,921	19,730	4	23,651

Standing volume by mean stand dbh class

Figure 18 Standing volume by stand mean dbh class



Standing volume (000 m³ obs)

Table 16 Standing volume by mean stand dbh class

	FC	Private secto	or	Total
Mean stand DBH (cm)	volume	volume	SE%	volume
	(000 m ³ obs)	(000 m ³ obs)	3E 70	(000 m ³ obs)
All conifers				
0–7	< 1	< 1	61	< 1
7–10	10	11	53	21
10–15	325	73	31	398
15–20	621	301	35	922
20–30	874	1,236	14	2,110
30–40	660	1,561	15	2,221
40–60	789	681	23	1,470
60–80	99	180	66	279
80+	4	37	95	41
Total	3,383	4,079	8	7,462
All broadleaves				
0–7	< 1	49	21	50
7–10	17	459	10	476
10–15	49	1,026	10	1,076
15–20	84	1,569	12	1,654
20–30	199	2,273	14	2,472
30–40	139	2,783	12	2,923
40–60	44	4,008	14	4,053
60–80	4	1,291	23	1,295
80+	< 1	2,184	26	2,184
Total	538	15,643	5	16,181
All species				
0–7	< 1	50	21	50
7–10	28	470	10	497
10–15	374	1,100	9	1,474
15–20	706	1,871	12	2,577
20–30	1,073	3,510	10	4,583
30–40	799	4,346	10	5,145
40–60	833	4,691	12	5,524
60–80	103	1,472	22	1,575
80+	4	2,221	25	2,225
Total	3,921	19,730	4	23,651

Number of measureable trees

Number of measureable trees by species

Figure 19 Number of measureable trees by principal tree species

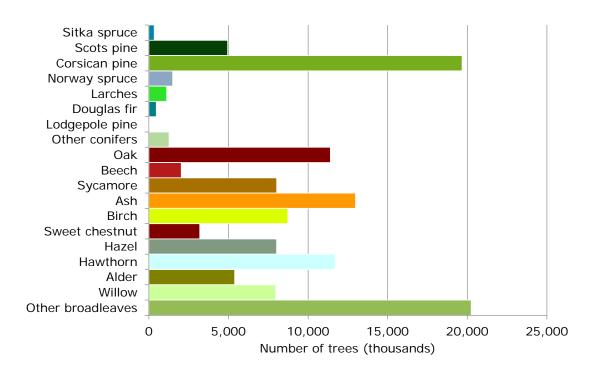


Table 17 Number of measureable trees by principal tree species

	FC	Private secto	or	Total
Principal species	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
Conifers				
Sitka spruce	< 1	332	81	333
Scots pine	1,507	3,444	14	4,950
Corsican pine	16,802	2,871	27	19,674
Norway spruce	60	1,440	26	1,500
Larches	143	980	25	1,123
Douglas fir	141	325	29	465
Lodgepole pine	29	0	-	29
Other conifers	198	1,071	25	1,269
All conifers	18,879	10,463	9	29,342
Broadleaves				
Oak	831	10,575	12	11,406
Beech	501	1,536	25	2,037
Sycamore	143	7,886	13	8,029
Ash	276	12,706	13	12,982
Birch	884	7,849	17	8,732
Sweet chestnut	108	3,090	21	3,198
Hazel	135	7,887	21	8,021
Hawthorn	5	11,695	20	11,700
Alder	56	5,334	23	5,389
Willow	23	7,951	21	7,975
Other broadleaves	1,231	19,011	12	20,242
All broadleaves	4,193	95,461	5	99,654
All species				
All species	23,073	105,964	4	129,037

Number of measureable trees by age class



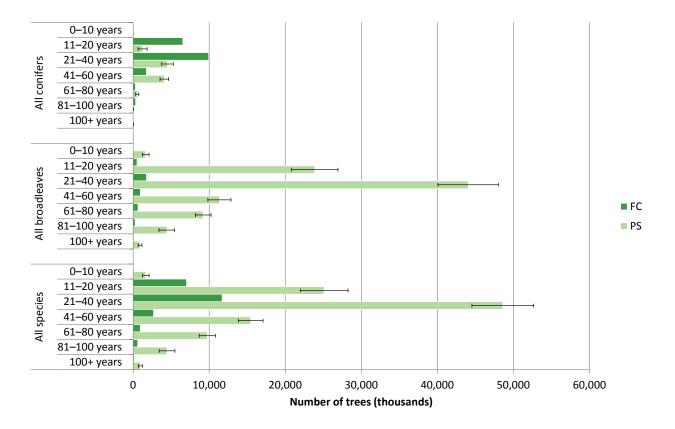


Table 18 Number of measureable trees by age class

	FC	Private secto	or	Total
Age class (years)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
All conifers	·		· · ·	
0–10	16	9	106	25
11–20	6,530	1,230	49	7,760
21–40	9,936	4,519	17	14,455
41–60	1,741	4,097	14	5,838
61–80	298	535	38	833
81–100	329	38	43	367
100+	29	36	72	65
Total	18,879	10,463	9	29,342
All broadleaves				
0–10	3	1,646	27	1,649
11–20	496	23,871	13	24,367
21–40	1,752	44,065	9	45,817
41–60	940	11,344	13	12,284
61–80	638	9,210	11	9,848
81–100	265	4,423	23	4,688
100+	99	901	29	1,001
Total	4,193	95,461	5	99,654
All species				
0–10	19	1,655	27	1,674
11–20	7,026	25,114	13	32,139
21–40	11,688	48,601	8	60,290
41–60	2,681	15,450	11	18,131
61–80	936	9,746	11	10,682
81–100	594	4,461	23	5,055
100+	128	937	28	1,065
Total	23,073	105,964	4	129,037

Number of measureable trees by mean stand dbh class

Figure 21 Number of measureable trees by mean stand dbh class

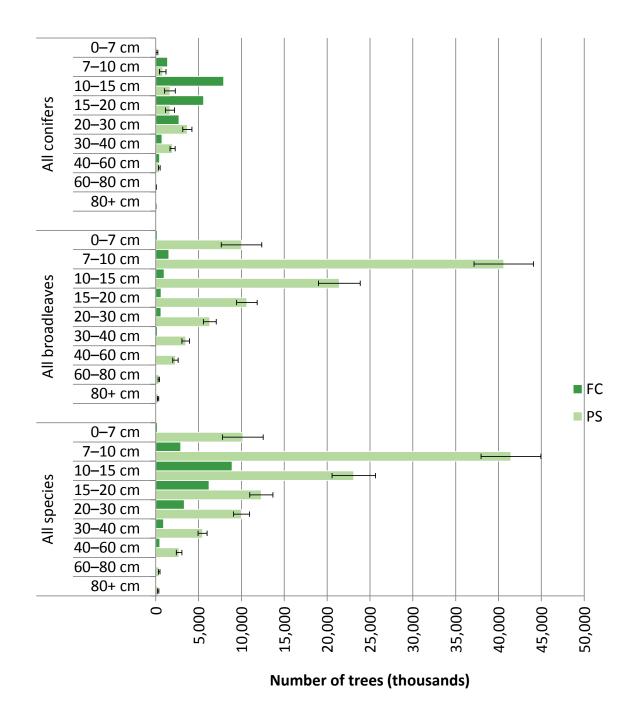


Table 19 Number of measureable trees by mean stand dbh class

	FC	Private secto	or	Total
Mean stand DBH	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
All conifers				
0–7 cm	18	155	63	173
7–10 cm	1,391	819	47	2,210
10–15 cm	7,942	1,670	37	9,612
15–20 cm	5,593	1,674	31	7,267
20–30 cm	2,718	3,693	15	6,411
30–40 cm	730	1,969	15	2,698
40–60 cm	459	424	22	883
60–80 cm	29	52	60	81
80+ cm	< 1	7	95	8
Total	18,879	10,463	9	29,342
All broadleaves				
0–7 cm	184	10,009	24	10,193
7–10 cm	1,540	40,620	9	42,160
10–15 cm	984	21,429	11	22,412
15–20 cm	631	10,641	11	11,273
20–30 cm	623	6,311	12	6,934
30–40 cm	196	3,501	12	3,697
40–60 cm	33	2,306	14	2,339
60–80 cm	1	361	23	363
80+ cm	< 1	283	27	283
Total	4,193	95,461	5	99,654
All species				
0–7 cm	201	10,164	23	10,366
7–10 cm	2,931	41,448	8	44,380
10–15 cm	8,926	23,112	11	32,038
15–20 cm	6,224	12,322	11	18,546
20–30 cm	3,341	10,010	9	13,351
30–40 cm	926	5,472	10	6,398
40–60 cm	492	2,731	12	3,223
60–80 cm	30	414	21	444
80+ cm	< 1	290	27	291
Total	23,073	105,964	4	129,037

Biomass stocks in live woodland trees

Biomass stocks by species

Figure 22 Biomass stocks by principal tree species

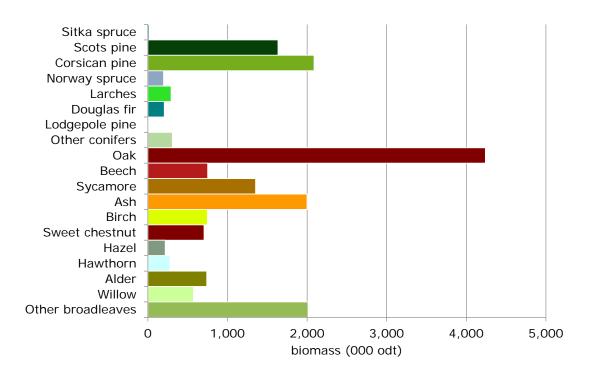


Table 20 Biomass stocks by principal tree species

	FC	Private secto	or	Total
Principal species	biomass (000 odt)	biomass (000 odt)	SE%	biomass (000 odt)
Conifers			ĺ	
Sitka spruce	< 1	14	70	14
Scots pine	532	1,103	14	1,635
Corsican pine	1,472	614	19	2,087
Norway spruce	8	188	28	197
Larches	23	269	22	292
Douglas fir	78	128	33	206
Lodgepole pine	4	0	-	4
Other conifers	56	251	30	308
All conifers	2,174	2,568	8	4,742
Broadleaves				
Oak	135	4,104	11	4,239
Beech	139	611	23	751
Sycamore	16	1,336	18	1,352
Ash	33	1,966	13	2,000
Birch	55	693	17	748
Sweet chestnut	11	695	28	706
Hazel	4	214	21	218
Hawthorn	< 1	278	19	278
Alder	10	730	27	740
Willow	< 1	573	25	574
Other broadleaves	94	1,918	17	2,012
All broadleaves	498	13,137	5	13,635
All species				
All species	2,672	15,710	4	18,382

Carbon stocks in live woodland trees

Carbon stocks by species

Figure 23 Carbon stocks by principal tree species

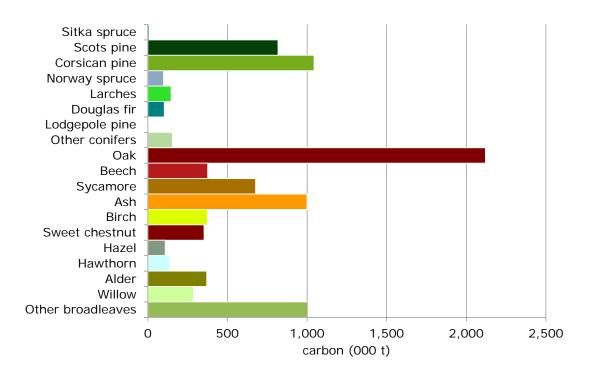


Table 21 Carbon stocks by principal tree species

	FC	Private secto	or	Total
Principal species	carbon (000 t)	carbon (000 t)	SE%	carbon (000 t)
Conifers			· · · · · ·	
Sitka spruce	< 1	7	70	7
Scots pine	266	551	14	817
Corsican pine	736	307	19	1,043
Norway spruce	4	94	28	98
Larches	12	134	22	146
Douglas fir	39	64	33	103
Lodgepole pine	2	0	-	2
Other conifers	28	126	30	154
All conifers	1,087	1,284	8	2,371
Broadleaves				
Oak	67	2,052	11	2,120
Beech	70	306	23	375
Sycamore	8	668	18	676
Ash	17	983	13	1,000
Birch	27	347	17	374
Sweet chestnut	5	348	28	353
Hazel	2	107	21	109
Hawthorn	< 1	139	19	139
Alder	5	365	27	370
Willow	< 1	286	25	287
Other broadleaves	47	959	17	1,006
All broadleaves	249	6,568	5	6,818
All species				
All species	1,336	7,855	4	9,191

Existing woodland management information and economic viability data (PS only)

Sample square distribution

 Table 22
 Sample square distribution

Number of squares surveyed	Number of squares surveyed	Number of Private sector squares surveyed	Number of Private sector squares containing coniferous species	Number of Private sector squares containing broadleaved species
East Anglia	362	352	189	326

Evidence of management

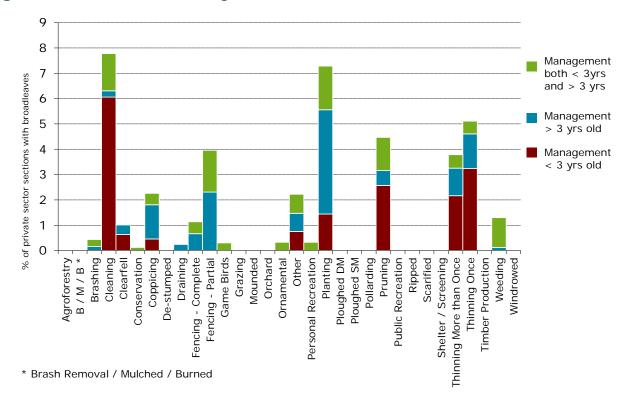
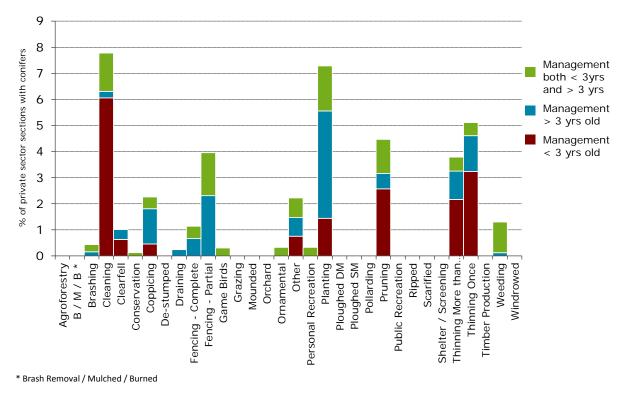


Figure 24 Evidence of management in PS broadleaf sections

Figure 25 Evidence of management in PS conifer sections



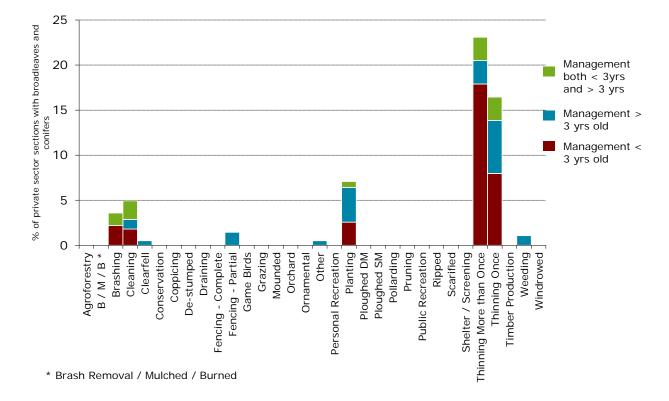
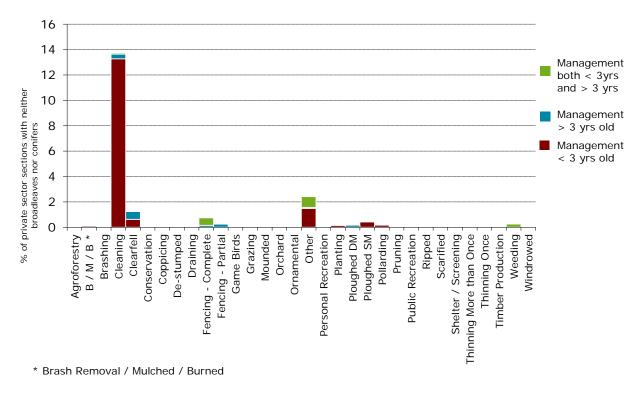
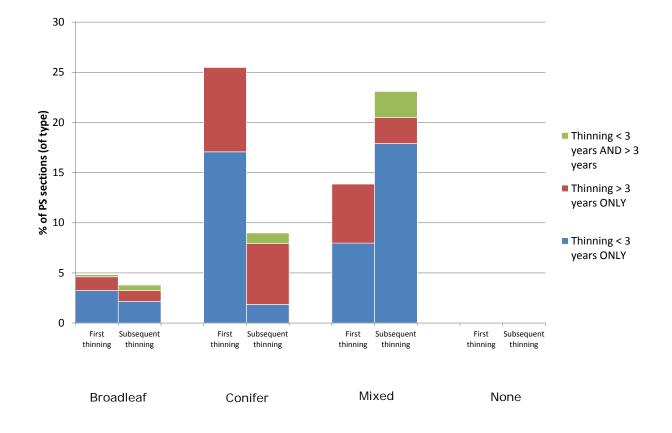


Figure 26 Evidence of management in PS mixed broadleaf/conifer sections



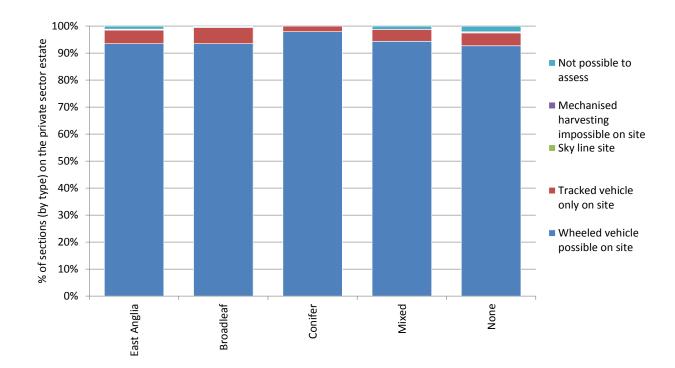




Evidence of thinning Figure 28 Evidence of thinning

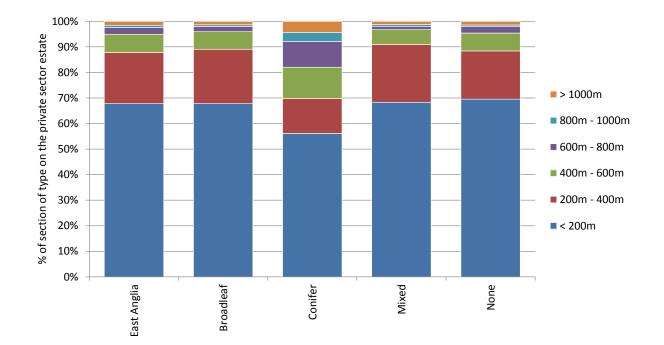
Suitability for harvesting

Figure 29 Suitability for harvesting



Distance to road

Figure 30 Distance to road



Type of road or ride

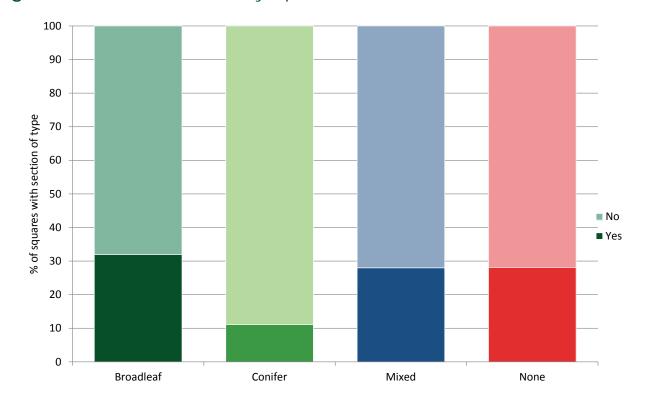
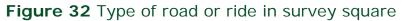
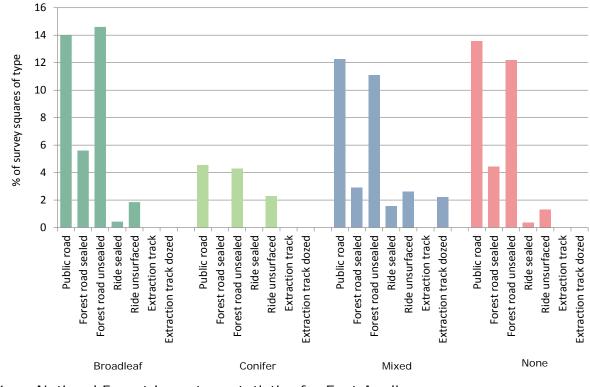


Figure 31 Road or ride in survey square





56 National Forest Inventory statistics for East Anglia

Mean yield class

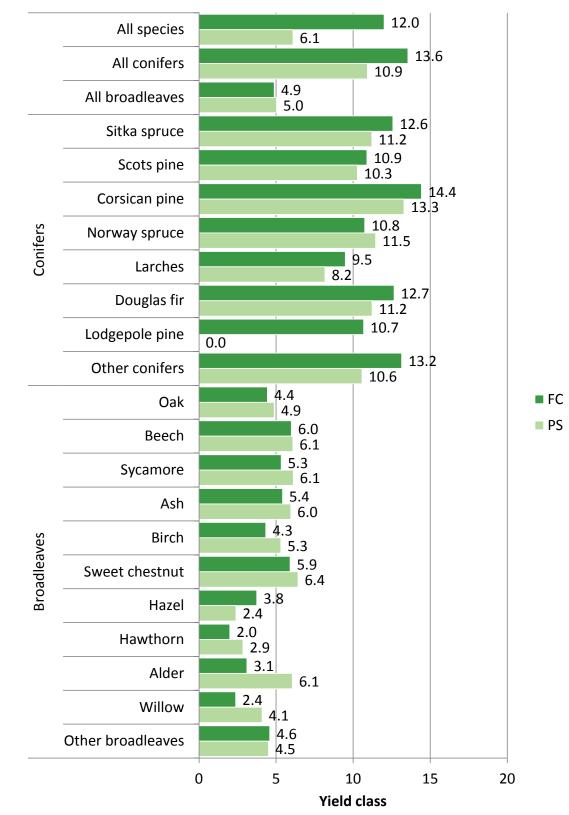


Figure 33 Mean yield class by principal tree species (FC and PS)

Table 23 Mean yield class by principal tree species (FC and PS)

	FC	Private sector	
Principal species	mean yield class weighted by area		
Conifers			
Sitka spruce	12.6	11.2	
Scots pine	10.9	10.3	
Corsican pine	14.4	13.3	
Norway spruce	10.8	11.5	
Larches	9.5	8.2	
Douglas fir	12.7	11.2	
Lodgepole pine	10.7	0.0	
Other conifers	13.2	10.6	
All conifers	13.6	10.9	
Broadleaves			
Oak	4.4	4.9	
Beech	6.0	6.1	
Sycamore	5.3	6.1	
Ash	5.4	6.0	
Birch	4.3	5.3	
Sweet chestnut	5.9	6.4	
Hazel	3.8	2.4	
Hawthorn	2.0	2.9	
Alder	3.1	6.1	
Willow	2.4	4.1	
Other broadleaves	4.6	4.5	
All broadleaves	4.9	5.0	
All species			
All species	12.0	6.1	

Overdue timber stocks

Overdue volume and area

Table 24 Standing volume in overdue timber stocks

	FC	Private secto	or
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE %
East Anglia			
All conifers	33	704	24
All broadleaves	10	8,961	9
All species	43	9,667	8

Table 25 Stocked area of overdue timber stocks

	FC	Private secto	or
	area (000 ha)	area (000 ha)	SE %
East Anglia			
All conifers	0.3	2.1	24
All broadleaves	< 0.1	26.4	7
All species	0.4	28.5	6

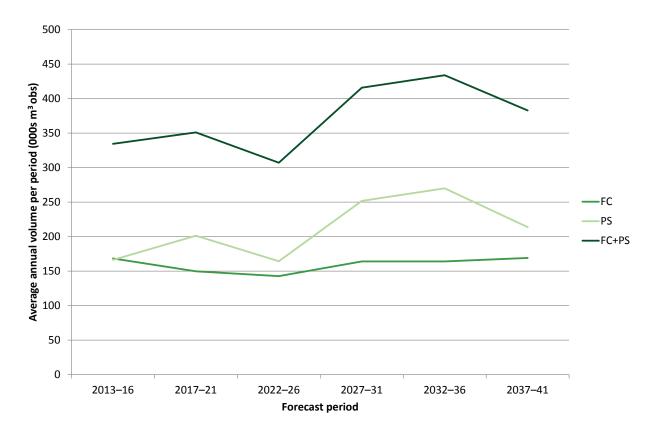
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50-year forecast of standing volume in broadleaves	
50-year forecast of net increment in broadleaves	
Combined standing volume, net increment and availability	

25-year softwood forecast

25-year forecast of softwood timber availability

Figure 34 Summary of 25–year forecast of softwood timber availability; average annual volume within period



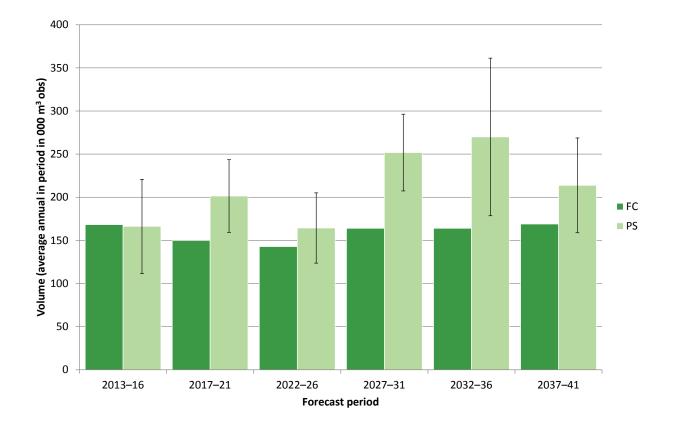


Figure 35 25–year forecast of softwood timber availability; average annual volume within period

Table 26 25-year forecast of softwood availability; average annual volumewithin period

	FC	Private secto	Total	
Forecast period	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
2013–16	168	166	33	334
2017–21	150	201	21	351
2022–26	143	164	25	307
2027–31	164	252	18	416
2032–36	164	270	34	434
2037–41	169	214	26	383

25-year forecast of softwood timber availability by principal species

Table 27 25-year forecast of softwood timber availability by principal species;average annual volume within period

		2013–16		2017–21		
Principal species	FC	Private sector		FC	Private sec	tor
Filicipal species	volume (000 m ³ obs)		SE%		volume (000 m ³ obs)	
East Anglia						
All conifers	168	166	12	150	201	13
Sitka spruce	0	1	95	0	1	76
Scots pine	23	46	15	20	56	14
Corsican pine	138	52	30	124	65	28
Norway spruce	< 1	10	32	< 1	10	26
Larches	< 1	28	29	< 1	32	29
Douglas fir	3	10	46	3	21	49
Lodgepole pine	< 1 0		-	< 1	0	-
Other conifers	4	19	30	2	16	27

Table 27 (cont'd) 25-year forecast of softwood timber availability by principal species; average annual volume within period

		2022–26		2027–31		
Principal species	FC	Private sector		FC	Private sec	tor
Filicipal species	volume (000 m ³ obs)		SE%		volume (000 m ³ obs)	
East Anglia						
All conifers	143	164	18	164	252	18
Sitka spruce	< 1	1	75	< 1	1	76
Scots pine	12	44	13	20	91	31
Corsican pine	126	71	40	138	75	42
Norway spruce	< 1	11	25	< 1	33	56
Larches	< 1	22	34	1	11	26
Douglas fir	2	3	44	3	8	78
Lodgepole pine	< 1	0	_	< 1	0	-
Other conifers	1	13	31	1	32	34

Table 27 (cont'd) 25-year forecast of softwood timber availability by principal species; average annual volume within period

		2032–36		2037–41		
Principal species	FC	Private sec	tor	FC	Private sec	tor
r fincipal species	volu (000 m		SE%	volume (000 m ³ obs)		SE%
East Anglia						
All conifers	164	270	17	169	214	20
Sitka spruce	1	6	54	2	3	42
Scots pine	15	171	23	17	145	27
Corsican pine	143	34	55	139	39	48
Norway spruce	< 1	28	59	< 1	6	24
Larches	1	10	27	1	5	28
Douglas fir	3	5	51	5	6	50
Lodgepole pine	< 1 0		-	< 1	< 1	50
Other conifers	< 1	16	30	3	9	30

25-year forecast of softwood timber availability % spruce

 Table 28
 25-year
 forecast of softwood timber availability % spruce

East	Anglio				Top dia	meter clas	ss (cm)			
EdSt	Anglia	7–14	14–16	16–18	18–24	24-34	34-44	44-54	54+	Total
2013–16	FC (%)	0	0	0	0	0	0	0	0	0
2013-10	PS (%)	18	11	9	7	5	4	3	1	7
2017–21	FC (%)	0	0	0	0	0	0	0	0	0
2017-21	PS (%)	14	12	10	7	4	3	2	2	6
2022–26	FC (%)	0	0	0	0	0	0	0	0	0
2022-20	PS (%)	17	17	14	9	5	4	4	6	8
2027–31	FC (%)	0	0	0	0	0	0	0	0	0
2027-31	PS (%)	18	17	17	17	15	9	9	4	14
2032–36	FC (%)	7	3	1	0	0	0	0	0	1
2032-30	PS (%)	28	22	19	15	11	11	11	11	13
2027 41	FC (%)	11	7	3	0	0	0	0	0	2
2037–41	PS (%)	20	20	17	8	3	1	0	2	5

25-year forecast of softwood timber availability by top diameter class

Table 29 25-year forecast of softwood timber availability by top diameter class;average annual volume within period

	2013–16			2017–21		
Top diameter class	FC	Private sector		FC	Private sec	tor
(cm)	volume (000 m ³ obs)		SE%	volu (000 m		SE%
East Anglia						
7–14	61	16	14	26	19	14
14–16	13	8	12	12	9	15
16–18	10	10	12	13	11	15
18–24	22	36	12	35	43	12
24–34	30	51	14	33	59	14
34–44	17	24	16	16	30	22
44–54	9	11	19	8	15	28
54+	7 11		28	6	15	34
Total	168 166		12	150	201	13

Table 29 (cont'd) 25-year forecast of softwood timber availability by top diameter class; average annual volume within period

		2022–26		2027–31		
Top diameter class	FC	Private sector		FC	Private sec	tor
(cm)	volume (000 m ³ obs)		SE%	volu (000 m		SE%
East Anglia						
7–14	18	13	15	14	14	22
14–16	8	6	15	7	8	25
16–18	11	8	15	10	11	29
18–24	43	36	17	46	52	27
24–34	42	59	22	57	86	19
34–44	12	25	26	17	42	23
44–54	5	10	23	6	22	25
54+	3 8		27	6	17	26
Total	143	164	18	164	252	18

Table 29 (cont'd) 25-year forecast of softwood timber availability by topdiameter class; average annual volume within period

		2032–36		2037–41		
Top diameter class	FC	Private sec	tor	FC	Private sec	tor
(cm)	volume (000 m ³ obs)		SE%		volume (000 m ³ obs)	
East Anglia						
7–14	14	11	16	16	15	19
14–16	7	4	14	6	4	16
16–18	9	6	13	8	5	15
18–24	43	31	14	38	26	19
24–34	63	85	18	65	68	22
34–44	20	60	20	24	46	23
44–54	6	33	21	8	25	24
54+	4 39		24	6	25	31
Total	164	270	17	169	214	20

Part 3 - how our woodlands might change

25-year forecast of standing volume in conifers

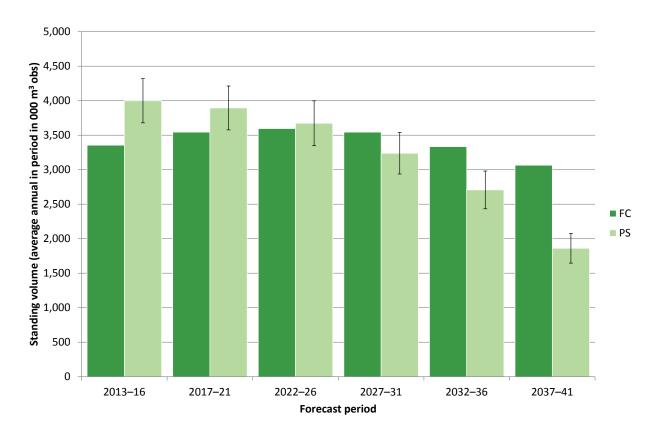


Figure 36 25-year forecast of standing volume in conifers

Table 30 25-year forecast of standing volume in conifers; average annualvolume within period

	FC	Private secto	Total	
Forecast period	volume	volume	SE%	volume
	(000 m ³ obs)	(000 m ³ obs)	JE 70	(000 m ³ obs)
East Anglia				
2013–16	3,355	3,999	8	7,354
2017–21	3,545	3,895	8	7,440
2022–26	3,595	3,673	9	7,268
2027–31	3,545	3,238	9	6,783
2032–36	3,333	2,707	10	6,041
2037–41	3,064	1,861	12	4,925

25-year forecast of net increment in conifers

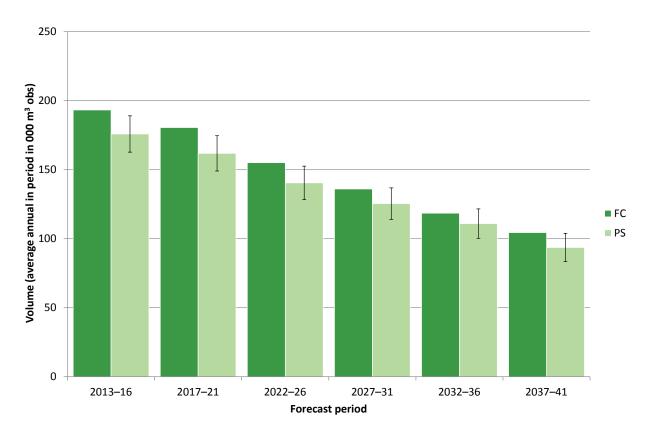


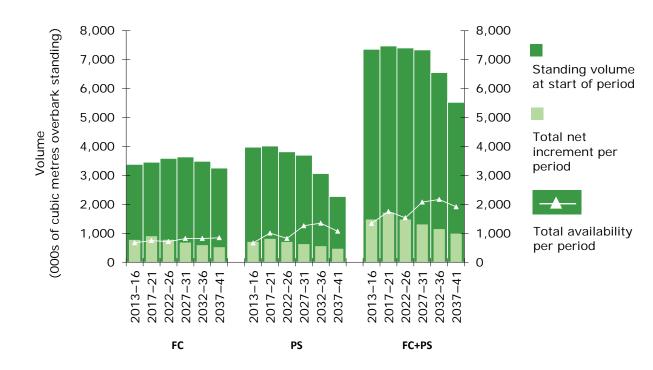
Figure 37 25-year forecast of net increment in conifers

Table 31 25-year forecast of net increment in conifers; average annual volume within period

	FC	Private sector		Total	
Forecast period	volume	volume	SE%	volume	
	(000 m ³ obs)	(000 m ³ obs)	3E 70	(000 m ³ obs)	
East Anglia					
2013–16	193	176	8	369	
2017–21	181	162	8	342	
2022–26	155	140	9	296	
2027–31	136	125	9	261	
2032–36	118	111	10	229	
2037–41	104	94	11	198	

Combined standing volume, net increment and availability

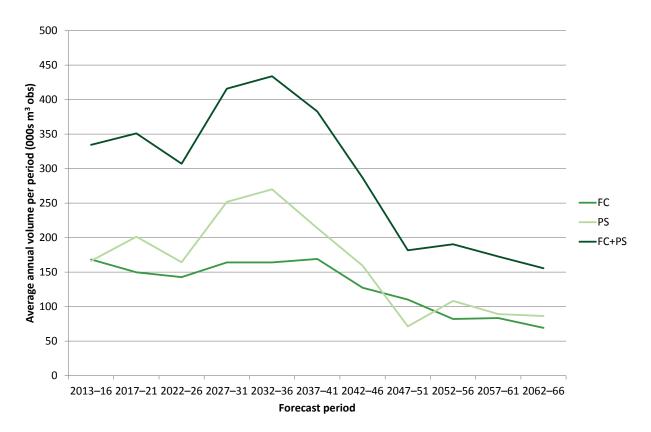
Figure 38 25-year forecast of standing volume, net increment and softwood availability



50-year softwood forecast

50-year forecast of softwood timber availability

Figure 39 Summary of 50-year forecast of softwood timber availability; average annual volume within period



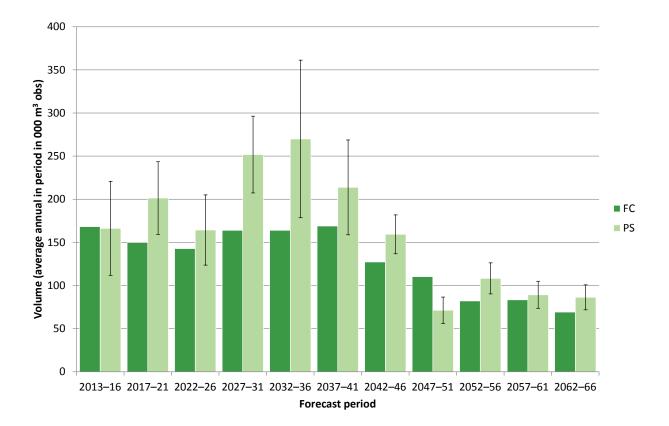


Figure 40 50–year forecast of softwood timber availability; average annual volume within period

Table 32 Summary of 50-year forecast of softwood timber availability; averageannual volume within period

	FC	Private secto	or	Total
Forecast period	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
2013–16	168	166	33	334
2017–21	150	201	21	351
2022–26	143	164	25	307
2027–31	164	252	18	416
2032–36	164	270	34	434
2037–41	169	214	26	383
2042–46	127	159	14	287
2047–51	110	71	21	182
2052–56	82	108	17	190
2057–61	83	89	18	173
2062–66	69	86	17	156

50-year forecast of softwood timber availability by principal species

Table 33 50-year forecast of softwood timber availability by principal species;average annual volume within period

		2013–16		2017–21		
Principal species	FC	Private sector		FC	Private sec	tor
Principal species	volume (000 m ³ obs)		SE%		volume (000 m ³ obs)	
East Anglia	·					
All conifers	168	166	12	150	201	13
Sitka spruce	0	1	95	0	1	76
Scots pine	23	46	15	20	56	14
Corsican pine	138	52	30	124	65	28
Norway spruce	< 1	10	32	< 1	10	26
Larches	< 1	28	29	< 1	32	29
Douglas fir	3	10	46	3	21	49
Lodgepole pine	< 1 0		-	< 1	0	-
Other conifers	4	19	30	2	16	27

Table 33 (cont'd) 50-year forecast of softwood timber availability by principal species; average annual volume within period

Principal species	2022–26			2027–31		
	FC	Private sector		FC	Private sec	tor
	volume (000 m ³ obs)		SE%	volu (000 m		SE%
East Anglia						
All conifers	143	164	18	164	252	18
Sitka spruce	< 1	1	75	< 1	1	76
Scots pine	12	44	13	20	91	31
Corsican pine	126	71	40	138	75	42
Norway spruce	< 1	11	25	< 1	33	56
Larches	< 1	22	34	1	11	26
Douglas fir	2	3	44	3	8	78
Lodgepole pine	< 1	0	-	< 1	0	-
Other conifers	1	13	31	1	32	34

Table 33 (cont'd) 50-year forecast of softwood timber availability by principal species; average annual volume within period

		2032–36		2037–41			
Principal species	FC	Private sec	tor	FC	FC Private sec		
Filincipal species	volı (000 m		SE%	volume (000 m ³ obs)		SE%	
East Anglia							
All conifers	164	270	17	169	214	20	
Sitka spruce	1	6	54	2	3	42	
Scots pine	15	171	23	17	145	27	
Corsican pine	143	34	55	139	39	48	
Norway spruce	< 1	28	59	< 1	6	24	
Larches	1	10	27	1	5	28	
Douglas fir	3	5	51	5	6	50	
Lodgepole pine	< 1 0		-	< 1	< 1	50	
Other conifers	< 1	16	30	3	9	30	

Table 33 (cont'd) 50-year forecast of softwood timber availability by principal species; average annual volume within period

		2042–46		2047–51					
Principal species	FC	Private sec	tor	FC Private sec		tor			
	volı (000 n	ume 1 ³ obs)	SE%	voli (000 m		SE%			
East Anglia	East Anglia								
All conifers	127	159	20	110	71	22			
Sitka spruce	2	6	58	2	3	37			
Scots pine	15	60	35	19	24	46			
Corsican pine	96	19	78	72	6	53			
Norway spruce	< 1	43	34	< 1	8	74			
Larches	1	3	33	2	3	34			
Douglas fir	5	7	21	7	8	18			
Lodgepole pine	< 1 < 1		50	< 1	< 1	50			
Other conifers	6	20	53	6	19	43			

Table 33 (cont'd) 50-year forecast of softwood timber availability by principal species; average annual volume within period

		2052–56		2057–61		
Principal species	FC	Private sec	tor	FC Private sec		tor
Filincipal species	volu (000 m		SE%	volume (000 m ³ obs)		SE%
East Anglia						
All conifers	82	108	24	83	89	16
Sitka spruce	2	5	27	3	8	19
Scots pine	16	39	40	23	34	38
Corsican pine	45	33	64	34	3	53
Norway spruce	< 1	3	33	< 1	6	34
Larches	2	4	29	1	6	26
Douglas fir	6	10	16	10	12	15
Lodgepole pine	< 1	< 1	50	< 1	< 1	50
Other conifers	9	15	18	12	20	15

Table 33 (cont'd) 50-year forecast of softwood timber availability by principal species; average annual volume within period

	2062–66						
Principal species	FC	Private sec	tor				
	volu (000 m	SE%					
East Anglia							
All conifers	69	86	9				
Sitka spruce	2	9	16				
Scots pine	22	30	13				
Corsican pine	17	< 1	20				
Norway spruce	< 1	8	30				
Larches	< 1	3	26				
Douglas fir	10	12	14				
Lodgepole pine	< 1	< 1	50				
Other conifers	15	23	15				

50-year forecast of softwood timber availability % spruce

Table	34	50-vear	forecast	of	softwood	timber	availability % spruce	
Table	эт	JU-ycai	TUICCUST	UI.	30110000	unider	availability 70 spruce	

East Anglia			Top diameter class (cm)								
	Last Anglia	7–14	14–16	16–18	18–24	24–34	34–44	44–54	54+	Total	
2013–16	FC (%)	0	0	0	0	0	0	0	0	0	
2013-10	PS (%)	18	11	9	7	5	4	3	1	7	
2017–21	FC (%)	0	0	0	0	0	0	0	0	0	
2017-21	PS (%)	14	12	10	7	4	3	2	2	6	
2022–26	FC (%)	0	0	0	0	0	0	0	0	0	
2022-20	PS (%)	17	17	14	9	5	4	4	6	8	
2027–31	FC (%)	0	0	0	0	0	0	0	0	0	
2027-31	PS (%)	18	17	17	17	15	9	9	4	14	
2032–36	FC (%)	7	3	1	0	0	0	0	0	1	
2032-30	PS (%)	28	22	19	15	11	11	11	11	13	
2037–41	FC (%)	11	7	3	0	0	0	0	0	2	
2037-41	PS (%)	20	20	17	8	3	1	0	2	5	
2042–46	FC (%)	9	9	7	2	0	0	0	0	2	
2042-40	PS (%)	18	32	32	35	37	36	33	1	31	
2047–51	FC (%)	6	8	8	5	1	0	0	0	3	
2047-31	PS (%)	9	18	25	29	19	13	4	0	15	
2052–56	FC (%)	4	6	7	8	3	0	0	0	4	
2052-50	PS (%)	12	11	12	13	5	1	0	0	7	
2057–61	FC (%)	3	4	5	8	6	1	0	0	4	
2057-01	PS (%)	22	18	16	16	15	3	0	0	16	
2062–66	FC (%)	3	4	4	6	8	5	0	0	5	
2002-00	PS (%)	20	24	21	16	21	21	2	1	20	

50-year forecast of standing volume in conifers

Figure 41 50–year forecast of standing volume in conifers; average annual volume within period

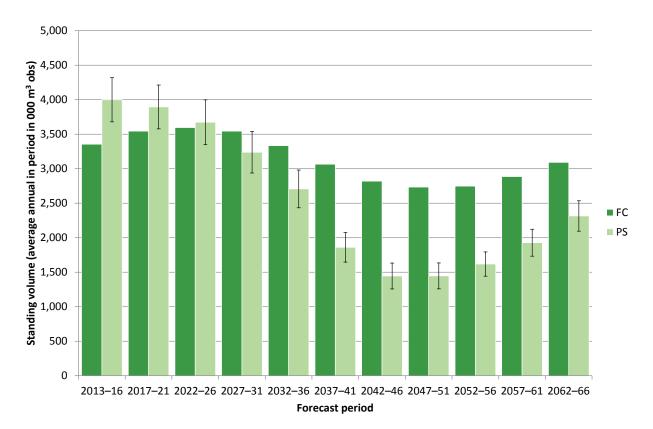


Table 35 50-year forecast of standing volume in conifers; average annualvolume within period

	FC	Private secto	or	Total	
Forecast period	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)	
East Anglia					
2013–16	3,355	3,999	8	7,354	
2017–21	3,545	3,895	8	7,440	
2022–26	3,595	3,673	9	7,268	
2027–31	3,545	3,238	9	6,783	
2032–36	3,333	2,707	10	6,041	
2037–41	3,064	1,861	12	4,925	
2042–46	2,820	1,445	13	4,265	
2047–51	2,733	1,446	13	4,179	
2052–56	2,746	1,618	11	4,364	
2057–61	2,886	1,928	10	4,814	
2062–66	3,091	2,315	10	5,406	

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50-year forecast of net increment in conifers

Figure 42 50-year forecast of net increment in conifers; average annual volume within period

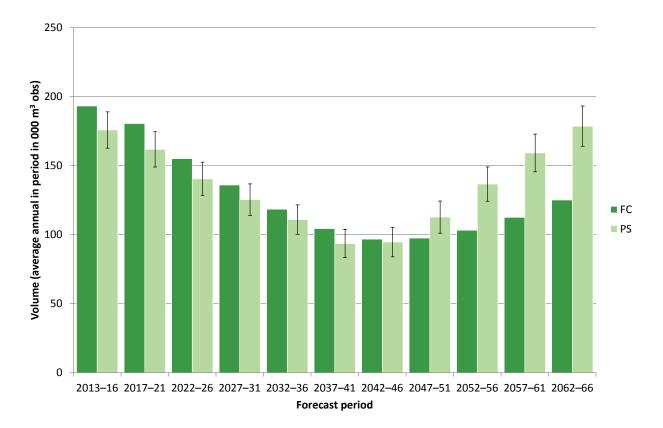


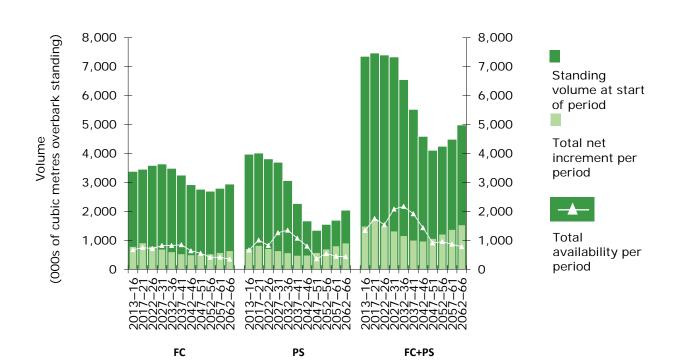
Table 36 50-year	forecast	of net	increment	in	conifers;	average	annual	volume
within period								

	FC	Private secto	or	Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000m ³ obs)
East Anglia				
2013–16	193	176	8	369
2017–21	181	162	8	342
2022–26	155	140	9	296
2027–31	136	125	9	261
2032–36	118	111	10	229
3037–41	104	94	11	198
2042–46	97	95	11	191
2047–51	98	113	10	210
2052–56	103	137	9	240
2057–61	113	159	9	272
2062–66	125	179	8	304

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Combined standing volume, net increment and availability

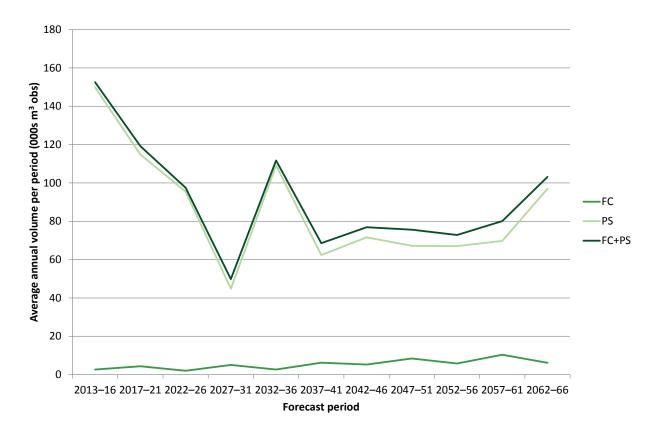
Figure 43 50-year forecast of standing volume, net increment and softwood availability



50-year hardwood forecast

50-year forecast of hardwood timber availability

Figure 44 Summary of 50-year forecast of hardwood timber availability; average annual volume within period





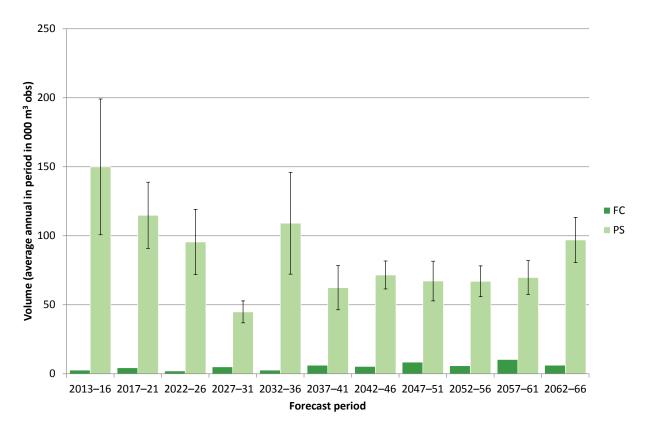


Table 37 50-year forecast of hardwood timber availability; average annualvolume within period

	FC	Private secto	or	Total	
Forecast period	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)	
East Anglia					
2013–16	3	150	33	153	
2017–21	4	115	21	119	
2022–26	2	95	25	98	
2027–31	5	45	18	50	
2032–36	3	109	34	112	
2037–41	6	62	26	69	
2042–46	5	72	14	77	
2047–51	8	67	21	76	
2052–56	6	67	17	73	
2057–61	10	70	18	80	
2062–66	6	97	17	103	

50-year forecast of hardwood timber availability by principal species

Table 38 50-year forecast of hardwood timber availability by principal species;average annual volume within period

		2013–16		2017–21			
Principal species	FC	Private sec	tor	FC	FC Private sect		
	volı (000 m		SE%	volu (000 m		SE%	
East Anglia			•				
All broadleaves	3	150	33	4	115	21	
Oak	< 1	8	32	< 1	13	31	
Beech	< 1	2	48	2	2	40	
Sycamore	< 1	32	54	< 1	36	49	
Ash	< 1	20	36	< 1	17	27	
Birch	< 1	12	46	< 1	15	43	
Sweet chestnut	< 1	51	82	< 1	3	32	
Hazel	< 1	1	65	0	2	46	
Hawthorn	0	< 1	49	0	1	36	
Alder	< 1	11	90	< 1	12	86	
Willow	0	2	65	0	2	63	
Other broadleaves	< 1	8	35	< 1	12	32	

Table 38 (cont'd) 50-year forecast of hardwood timber availability by principal species; average annual volume within period

	2	2022–26		2027–31			
Principal species	FC	Private sec	tor	FC	Private sector		
	volu (000 m		SE%	volume (000 m ³ obs)		SE%	
East Anglia							
All broadleaves	2	95	25	5	45	18	
Oak	< 1	13	35	1	16	42	
Beech	< 1	17	74	2	2	37	
Sycamore	< 1	11	56	< 1	4	33	
Ash	< 1	4	22	< 1	3	25	
Birch	< 1	5	32	< 1	3	40	
Sweet chestnut	< 1	5	42	< 1	3	29	
Hazel	< 1	10	72	< 1	2	42	
Hawthorn	0	2	30	0	1	27	
Alder	< 1	3	68	< 1	1	40	
Willow	0	3	49	0	4	41	
Other broadleaves	< 1	21	74	< 1	6	44	

Table 38 (cont'd) 50-year forecast of hardwood timber availability by principal species; average annual volume within period

		2032–36		2037–41		
Principal species	FC	Private sec	tor	FC	Private sec	tor
r incipal species	volume (000 m ³ obs)		SE%	volu (000 m		SE%
East Anglia						
All broadleaves	3	109	34	6	62	26
Oak	< 1	58	61	1	23	64
Beech	< 1	5	35	2	2	50
Sycamore	< 1	7	35	< 1	8	33
Ash	< 1	4	23	< 1	6	22
Birch	< 1	2	21	< 1	3	23
Sweet chestnut	< 1	12	59	< 1	2	30
Hazel	< 1	7	83	< 1	4	58
Hawthorn	0	2	24	0	2	21
Alder	< 1	2	54	< 1	2	60
Willow	0	4	37	0	5	35
Other broadleaves	< 1	6	34	1	5	15

Table 38 (cont'd) 50-year forecast of hardwood timber availability by principal species; average annual volume within period

	2042–46			2047–51		
Principal species	FC	Private sec	tor	FC Private sec		tor
r incipal species	volume (000 m ³ obs)		SE%	volı (000 m	-	SE%
East Anglia						
All broadleaves	5	72	14	8	67	21
Oak	< 1	6	32	1	18	74
Beech	< 1	3	66	2	< 1	25
Sycamore	< 1	9	29	< 1	11	28
Ash	2	15	23	1	7	20
Birch	< 1	7	30	1	7	22
Sweet chestnut	< 1	11	68	< 1	3	45
Hazel	< 1	1	30	< 1	5	39
Hawthorn	0	2	20	0	2	20
Alder	< 1	4	48	< 1	6	40
Willow	< 1	4	35	0	3	38
Other broadleaves	1	9	19	2	4	15

Table 38 (cont'd)50-year forecast of hardwood timber availability by principalspecies; average annual volume within period

		2052–56		2057–61		
Principal species	FC	Private sec	tor	FC	Private sec	tor
Frincipal species	volu		SE%	volu		SE%
	(000 m	າ ³ obs)	JL 70	(000 m	າ ³ obs)	SL 70
East Anglia						
All broadleaves	6	67	17	10	70	18
Oak	1	8	28	2	8	31
Beech	< 1	3	57	2	2	25
Sycamore	< 1	17	47	< 1	15	47
Ash	< 1	12	38	1	8	33
Birch	< 1	5	26	2	6	28
Sweet chestnut	< 1	3	44	< 1	11	55
Hazel	< 1	4	35	< 1	5	51
Hawthorn	0	2	20	0	2	20
Alder	< 1	3	88	< 1	5	90
Willow	0	3	37	0	3	40
Other broadleaves	1	5	20	1	5	22

Table 38 (cont'd) 50-year forecast of hardwood timber availability by principal species; average annual volume within period

		2062–66	
Drincipal chacies	FC	ctor	
Principal species	volı (000 m	SE%	
East Anglia			
All broadleaves	6	97	17
Oak	1	10	27
Beech	1	6	40
Sycamore	< 1	17	34
Ash	< 1	14	28
Birch	1	11	30
Sweet chestnut	< 1	9	75
Hazel	< 1	2	52
Hawthorn	0	3	19
Alder	< 1	3	83
Willow	0	12	78
Other broadleaves	1	10	30

50-year forecast of hardwood timber availability by top diameter class

Table 39 50-year forecast of hardwood timber availability by top diameter class;average annual volume within period

		2013–16		2017–21		
Top diameter class	FC	Private sec	tor	FC	Private sec	tor
(cm)	volume (000 m ³ obs)		SE%	volu (000 m		SE%
East Anglia						
7–14	1	18	19	< 1	22	15
14–16	< 1	5	20	< 1	6	19
16–18	< 1	6	22	< 1	6	19
18–24	< 1	22	26	1	21	19
24–34	< 1	45	41	1	30	25
34–44	< 1	26	46	< 1	14	33
44–54	< 1	15	53	< 1	7	43
54+	< 1	14	44	< 1	9	62
Total	3	150	33	4	115	21

Table 39 (cont'd) 50-year forecast of hardwood timber availability by top diameter class; average annual volume within period

		2022–26		2027–31		
Top diameter class	FC	Private sec	tor	FC	Private sec	tor
(cm)	volume (000 m ³ obs)		SE%	volu (000 m	ume 1 ³ obs)	SE%
East Anglia						
7–14	< 1	19	14	< 1	21	14
14–16	< 1	4	30	< 1	2	23
16–18	< 1	4	33	< 1	2	24
18–24	< 1	14	29	1	6	28
24–34	< 1	21	31	2	8	38
34–44	< 1	14	39	< 1	4	39
44–54	< 1	8	41	< 1	1	31
54+	< 1	10	48	< 1	< 1	48
Total	2	95	25	5	45	18

Table 39 (cont'd) 50-year forecast of hardwood timber availability by top diameter class; average annual volume within period

		2032–36		2037–41		
Top diameter class	FC	Private sec	tor	FC	Private sec	tor
(cm)	volume (000 m ³ obs)		SE%	volı (000 m		SE%
East Anglia						
7–14	1	25	14	1	24	12
14–16	< 1	4	30	< 1	4	16
16–18	< 1	5	41	< 1	3	21
18–24	< 1	21	58	1	8	31
24–34	< 1	31	53	2	10	52
34–44	< 1	12	34	< 1	6	60
44–54	< 1	6	38	< 1	3	57
54+	< 1	6	42	< 1	3	56
Total	3	109	34	6	62	26

Table 39 (cont'd) 50-year forecast of hardwood timber availability by top diameter class; average annual volume within period

		2042–46		2047–51		
Top diameter class	FC	Private sec	tor	FC Private sec		tor
(cm)	volume		SE%		ume	SE%
	(000 m	n ³ obs)	0270	(000 m ³ obs)		02/0
East Anglia						
7–14	2	25	11	2	21	12
14–16	< 1	6	11	< 1	5	12
16–18	< 1	6	13	< 1	5	12
18–24	1	17	14	2	15	14
24–34	< 1	9	23	2	8	31
34–44	< 1	4	52	< 1	4	73
44–54	< 1	2	59	< 1	3	82
54+	< 1 4		67	< 1	6	86
Total	5	72	14	8	67	21

Table 39 (cont'd)50-year forecast of hardwood timber availability by topdiameter class; average annual volume within period

		2052–56		2057–61		
Top diameter class	FC	Private sec	tor	FC Private sec		tor
(cm)	volume (000 m ³ obs)		SE%	volı (000 m		SE%
East Anglia						
7–14	2	20	13	3	21	16
14–16	< 1	5	18	< 1	4	15
16–18	< 1	5	22	< 1	4	17
18–24	1	15	26	2	13	19
24–34	< 1	12	25	2	14	28
34–44	< 1	5	28	< 1	7	34
44–54	< 1	2	31	< 1	3	43
54+	< 1	3	40	< 1	4	40
Total	6	67	17	10	70	18

Table 39 (cont'd) 50-year forecast of hardwood timber availability by top diameter class; average annual volume within period

		2062–66				
Top diameter class	FC	FC Private sec				
(cm)	volu	ume	SE%			
	(000 m	n ³ obs)	3E 70			
East Anglia						
7–14	2	25	15			
14–16	< 1	6	16			
16–18	< 1	6	17			
18–24	1	23	21			
24–34	< 1	24	26			
34–44	< 1	8	23			
44–54	< 1	3	30			
54+	< 1	3	37			
Total	6	97	17			

50-year forecast of standing volume in broadleaves

Figure 46 50–year forecast of standing volume in broadleaves; average annual volume within period

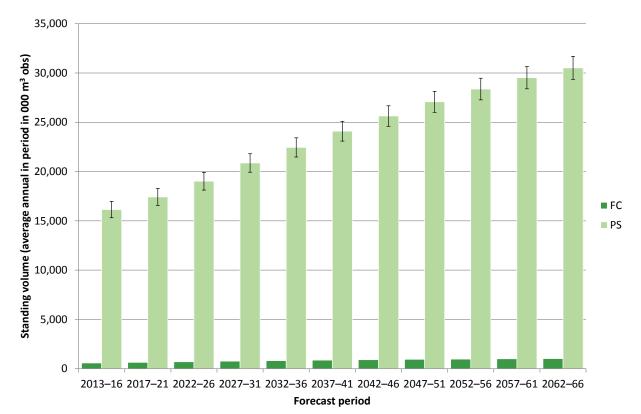


Table 40 50–year forecast of standing volume in broadleaves; average annual volume within period

	FC	Private secto	or	Total
Forecast period	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
2013–16	3	150	33	153
2017–21	4	115	21	119
2022–26	2	95	25	98
2027–31	5	45	18	50
2032–36	3	109	34	112
2037–41	6	62	26	69
2042–46	5	72	14	77
2047–51	8	67	21	76
2052–56	6	67	17	73
2057–61	10	70	18	80
2062–66	6	97	17	103

Table 41 50-year forecast of standing volume in broadleaves by principalspecies; average annual volume within period

		2013–16		2017–21		
Principal species	FC	Private sec	tor	FC	Private sec	tor
Filicipal species	volu		SE%	volu		SE%
	(000 m	³ obs)	<u>JE</u> 70	(000 m	າ ³ obs)	SL 70
East Anglia						
All broadleaves	572	17,824	5	639	19,353	5
Oak	151	6,681	10	165	6,939	10
Beech	163	1,663	21	183	1,785	20
Sycamore	18	1,563	19	20	1,677	18
Ash	36	2,627	11	39	2,831	11
Birch	59	707	13	69	813	13
Sweet Chestnut	13	1,119	26	15	1,206	26
Hazel	5	639	15	6	764	13
Hawthorn	< 1	121	20	< 1	152	19
Alder	13	933	17	14	1,030	16
Willow	< 1	913	14	< 1	1,085	13
Other broadleaves	113	1,003	19	129	1,169	18

Table 41 (cont'd)50-year forecast of standing volume in broadleaves byprincipal species; average annual volume within period

	2022–26			2027–31		
Principal species	FC	Private sector		FC Private sec		tor
Principal species	volume (000 m ³ obs)		SE%	volı (000 m		SE%
East Anglia						
All broadleaves	697	21,323	5	762	23,362	4
Oak	177	7,291	10	191	7,633	10
Beech	200	1,940	19	220	2,099	18
Sycamore	20	1,825	17	22	1,986	16
Ash	40	3,085	11	41	3,355	10
Birch	77	941	13	87	1,080	13
Sweet Chestnut	16	1,319	25	17	1,436	25
Hazel	7	925	12	8	1,088	11
Hawthorn	< 1	197	18	< 1	255	16
Alder	15	1,160	16	15	1,293	16
Willow	1	1,320	13	1	1,569	12
Other broadleaves	144	1,402	16	159	1,636	15

Table 41 (cont'd)50-year forecast of standing volume in broadleaves byprincipal species; average annual volume within period

	2032–36		2037–41			
Principal species	FC	Private sector		FC	Private sec	tor
Frincipal species	volu	ime	SE%	volu	ıme	SE%
	(000 m	³ obs)	3E 70	(000 m	³ obs)	JE 70
East Anglia						
All broadleaves	812	25,344	4	870	27,101	4
Oak	201	7,951	9	214	8,288	9
Beech	234	2,255	18	253	2,412	17
Sycamore	23	2,128	16	24	2,256	15
Ash	42	3,618	10	44	3,845	10
Birch	94	1,199	13	101	1,308	13
Sweet Chestnut	19	1,553	25	20	1,551	25
Hazel	9	1,242	11	10	1,365	10
Hawthorn	< 1	317	16	< 1	384	15
Alder	16	1,416	16	17	1,521	16
Willow	1	1,820	12	2	2,066	12
Other broadleaves	173	1,902	14	186	2,157	13

Table 41 (cont'd)50-year forecast of standing volume in broadleaves byprincipal species; average annual volume within period

	2042–46			2047–51		
Principal species	FC	Private sec	tor	FC	FC Private secto	
Principal species	volume (000 m ³ obs)		SE%	volu (000 m		SE%
East Anglia						
All broadleaves	906	28,649	4	947	30,121	4
Oak	223	8,554	9	235	8,869	9
Beech	265	2,517	17	282	2,624	17
Sycamore	24	2,350	15	25	2,433	15
Ash	42	4,033	10	38	4,192	10
Birch	106	1,394	13	111	1,468	13
Sweet Chestnut	21	1,632	25	23	1,733	25
Hazel	11	1,457	10	11	1,503	10
Hawthorn	< 1	450	15	< 1	513	15
Alder	17	1,606	16	18	1,677	16
Willow	2	2,303	12	2	2,532	12
Other broadleaves	194	2,404	12	202	2,624	12

Table 41 (cont'd)50-year forecast of standing volume in broadleaves byprincipal species; average annual volume within period

	2052–56		2057–61			
Principal species	FC	Private sec	tor	FC	Private sec	tor
r incipal species	volu	ime	SE%	volu	ıme	SE%
	(000 m	³ obs)	JL 70	(000 m	n³ obs)	JL 70
East Anglia						
All broadleaves	973	31,491	4	1,004	32,718	4
Oak	243	9,162	9	251	9,441	9
Beech	294	2,759	16	311	2,874	16
Sycamore	24	2,499	14	23	2,561	14
Ash	36	4,334	10	36	4,445	10
Birch	115	1,540	13	117	1,578	13
Sweet Chestnut	23	1,776	25	24	1,757	26
Hazel	12	1,550	10	12	1,592	10
Hawthorn	< 1	573	15	< 1	615	15
Alder	19	1,738	16	19	1,789	16
Willow	2	2,745	12	2	2,935	12
Other broadleaves	205	2,838	12	209	3,044	11

Table 41 (cont'd) 50-year forecast of standing volume in broadleaves by principal species; average annual volume within period

		2062–66		
Principal species	FC	Private sec	tor	
Philicipal species	volu	ume	SE%	
	(000 m	າ ³ obs)	JE 70	
East Anglia				
All broadleaves	1,024	33,773	4	
Oak	258	9,667	9	
Beech	322	2,959	16	
Sycamore	23	2,616	14	
Ash	35	4,516	10	
Birch	118	1,624	13	
Sweet Chestnut	24	1,835	26	
Hazel	13	1,642	10	
Hawthorn	< 1	658	15	
Alder	18	1,839	16	
Willow	2	3,100	12	
Other broadleaves	211	3,203	11	

50-year forecast of net increment in broadleaves

Figure 47 50-year forecast of net increment in broadleaves; average annual volume within period

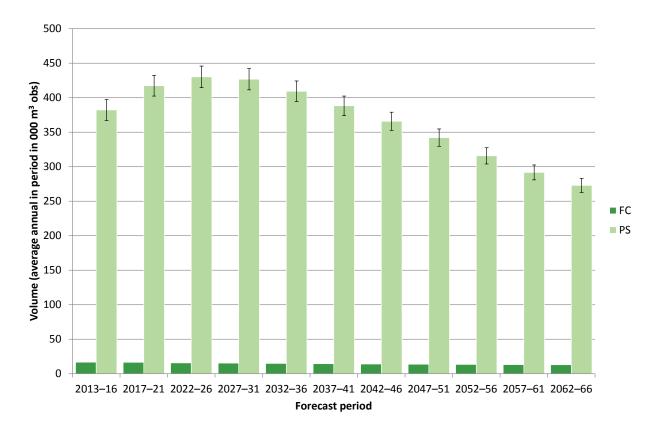


 Table 42 50-year forecast of net increment in broadleaves; average annual volume within period

	FC	FC Private sector		
Forecast period	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
2013–16	17	382	4	399
2017–21	17	417	4	434
2022–26	16	430	4	446
2027–31	15	427	4	442
2032–36	15	409	4	424
3037–41	14	388	4	403
2042–46	14	366	4	380
2047–51	14	342	4	356
2052–56	13	316	4	329
2057–61	13	292	4	305
2062–66	13	273	4	286

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Table 43 50-year forecast of net increment in broadleaves by principal species;average annual volume within period

		2013–16		2017–21		
Principal species	FC	Private sec	tor	FC	Private sector	
Frincipal species	volu		SE%	volu		SE%
	(000 m	າ obs)		(000 m	າ [°] obs)	
East Anglia						
All broadleaves	17	382	4	17	417	4
Oak	3	92	10	3	93	9
Beech	5	18	27	5	19	24
Sycamore	< 1	43	14	< 1	42	13
Ash	< 1	51	12	< 1	55	12
Birch	2	30	15	2	30	14
Sweet Chestnut	< 1	28	24	< 1	29	23
Hazel	< 1	16	23	< 1	17	21
Hawthorn	< 1	15	16	< 1	19	15
Alder	< 1	13	24	< 1	19	25
Willow	< 1	17	21	< 1	26	17
Other broadleaves	4	59	12	4	68	10

Table 43 (cont'd) 50-year forecast of net increment in broadleaves by principal species; average annual volume within period

	2022–26			2027–31		
Dringing chasies	FC	Private sec	tor	FC Private secto		tor
Principal species	volume (000 m ³ obs)		SE%	volı (000 m		SE%
East Anglia						
All broadleaves	16	430	4	15	427	4
Oak	3	92	9	3	89	9
Beech	5	19	24	5	18	24
Sycamore	< 1	42	14	< 1	43	14
Ash	< 1	55	11	< 1	53	11
Birch	2	31	15	2	29	15
Sweet Chestnut	< 1	30	22	< 1	30	22
Hazel	< 1	18	19	< 1	18	20
Hawthorn	< 1	22	14	< 1	24	14
Alder	< 1	21	25	< 1	21	25
Willow	< 1	30	18	< 1	32	18
Other broadleaves	4	69	10	4	69	10

Table 43 (cont'd) 50-year forecast of net increment in broadleaves by principal species; average annual volume within period

		2032–36		2037–41		
Principal species	FC	Private sec	tor	FC	Private sec	tor
Principal species	volume		SE%	volu	ume	SE%
	(000 m	³ obs)	JE 70	(000 m	າ ³ obs)	JE 70
East Anglia						
All broadleaves	15	409	4	14	388	4
Oak	3	82	9	3	77	9
Beech	5	18	24	5	17	24
Sycamore	< 1	43	15	< 1	40	16
Ash	< 1	50	11	< 1	46	11
Birch	2	27	15	2	26	14
Sweet Chestnut	< 1	30	22	< 1	29	22
Hazel	< 1	17	19	< 1	14	19
Hawthorn	< 1	25	15	< 1	25	14
Alder	< 1	20	26	< 1	17	26
Willow	< 1	32	19	< 1	32	19
Other broadleaves	3	66	10	3	64	10

Table 43 (cont'd) 50–year forecast of net increment in broadleaves by principal species; average annual volume within period

	2042–46			2047–51		
Dringing chasies	FC	Private sec	tor	FC Private sec		tor
Principal species	volume (000 m ³ obs)		SE%	voli (000 m		SE%
East Anglia		,				
All broadleaves	14	366	4	14	342	4
Oak	3	76	9	3	74	9
Beech	5	17	24	4	16	23
Sycamore	< 1	37	17	< 1	34	18
Ash	< 1	41	11	< 1	35	11
Birch	2	24	14	2	22	14
Sweet Chestnut	< 1	28	22	< 1	27	22
Hazel	< 1	13	20	< 1	12	23
Hawthorn	< 1	25	14	< 1	24	14
Alder	< 1	15	27	< 1	12	28
Willow	< 1	31	19	< 1	30	19
Other broadleaves	3	60	10	3	56	10

Table 43 (cont'd)50-year forecast of net increment in broadleaves by principalspecies; average annual volume within period

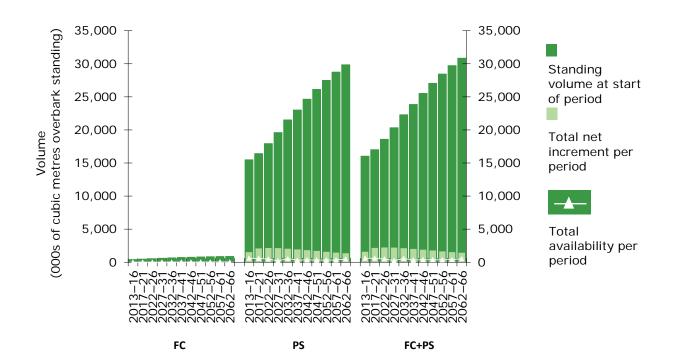
		2052–56		2057–61		
Principal species	FC	Private sector		FC	Private sector	
Frincipal species	volu	ime	SE%	volu	ume	SE%
	(000 m	³ obs)	JE 70	(000 m	າ ³ obs)	JE 70
East Anglia						
All broadleaves	13	316	4	13	292	4
Oak	3	69	9	3	67	9
Beech	4	16	22	5	16	21
Sycamore	< 1	29	17	< 1	24	15
Ash	< 1	30	11	< 1	25	11
Birch	2	20	13	2	18	13
Sweet Chestnut	< 1	26	22	< 1	25	22
Hazel	< 1	10	24	< 1	10	27
Hawthorn	< 1	23	14	< 1	22	14
Alder	< 1	10	29	< 1	8	26
Willow	< 1	28	19	< 1	27	19
Other broadleaves	2	53	11	2	50	11

Table 43 (cont'd) 50-year forecast of net increment in broadleaves by principal species; average annual volume within period

		2062–66	
Dringinal species	FC	tor	
Principal species	volu (000 m		SE%
East Anglia			
All broadleaves	13	273	4
Oak	3	66	10
Beech	5	16	20
Sycamore	< 1	20	14
Ash	< 1	23	10
Birch	2	17	12
Sweet Chestnut	< 1	24	22
Hazel	< 1	9	27
Hawthorn	< 1	21	14
Alder	< 1	7	24
Willow	< 1	24	19
Other broadleaves	2	47	11

Combined standing volume, net increment and availability

Figure 48 combined hardwood standing volume, net increment and availability



Part 4 – Tree health

Ash	
Oak	106
Sweet chestnut	
Larch	124

Ash

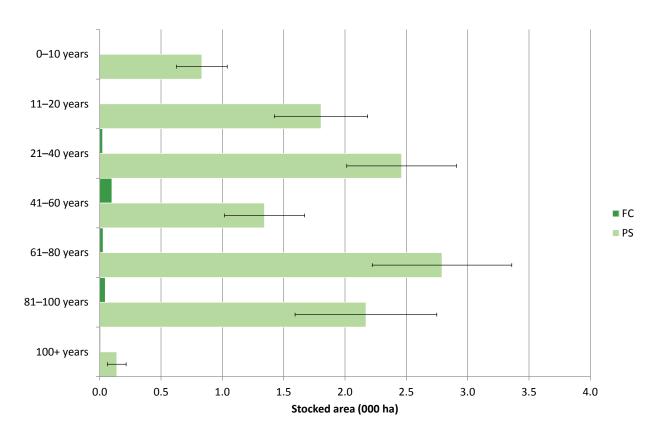


Figure 49 Stocked area of ash by age class

Table 44 Stocked area of ash by age class

	FC	Private secto	r	Total
Age class (years)	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia				
0–10	< 0.1	0.8	25	0.8
11–20	< 0.1	1.8	21	1.8
21–40	< 0.1	2.5	18	2.5
41–60	< 0.1	1.3	24	1.4
61–80	< 0.1	2.8	20	2.8
81–100	< 0.1	2.2	27	2.2
100+	< 0.1	0.1	55	0.1
Total	0.2	11.5	10	11.7

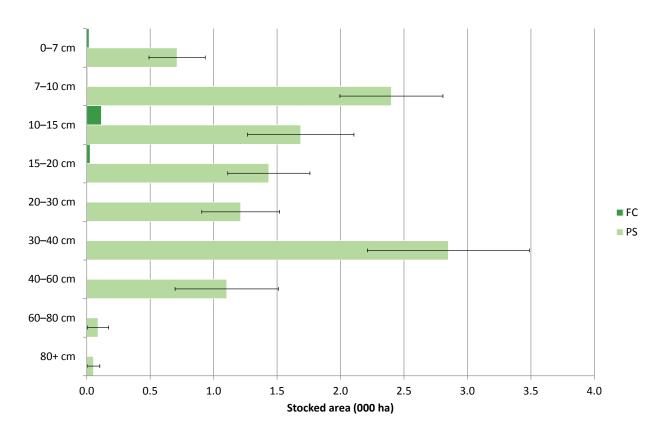


Figure 50 Stocked area of ash by mean stand dbh class

Table 45 Stocked area of ash by mean stand dbh class

	FC	Private secto	or	Total
Mean stand DBH (cm)	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia				
0–7	< 0.1	0.7	31	0.7
7–10	< 0.1	2.4	17	2.4
10–15	0.1	1.7	25	1.8
15–20	< 0.1	1.4	23	1.5
20–30	< 0.1	1.2	25	1.2
30–40	< 0.1	2.8	22	2.9
40–60	0.0	1.1	37	1.1
60–80	0.0	< 0.1	93	< 0.1
80+	0.0	< 0.1	95	< 0.1
Total	0.2	11.5	10	11.7

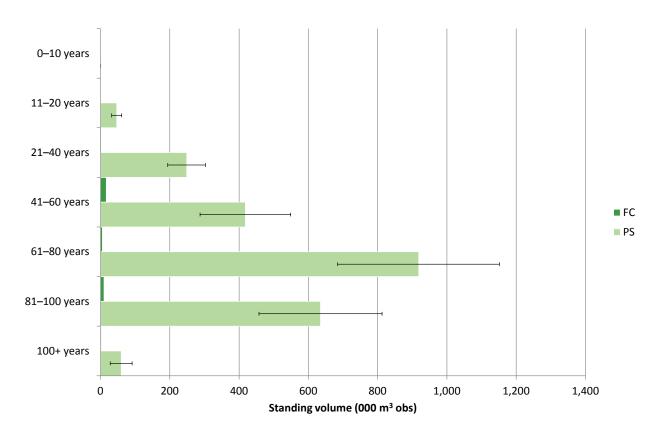


Figure 51 Standing volume of ash by age class

Table 46 Standing volume of ash by age class

	FC	Private secto	r	Total
Age class (years)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–10	0	< 1	31	< 1
11–20	< 1	46	31	46
21–40	2	248	22	251
41–60	16	418	31	435
61–80	5	918	25	923
81–100	10	635	28	645
100+	2	60	53	61
Total	36	1,613	18	1,649

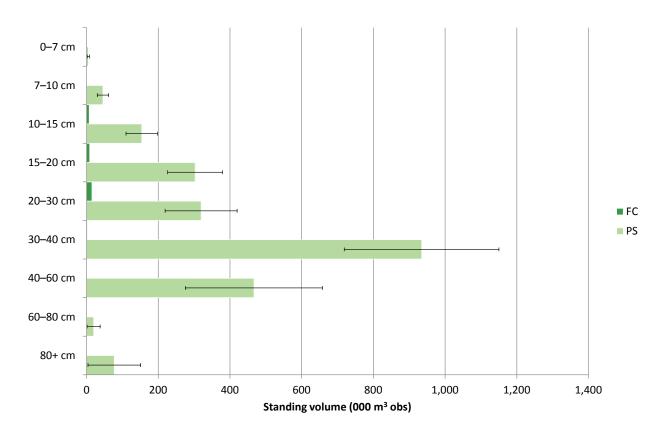


Figure 52 Standing volume of ash by mean stand dbh class

Table 47	Standing	volume of	ash by	mean	stand	dbh clas	S

	FC	Private secto	r	Total
Mean stand DBH (cm)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–7	0	5	62	5
7–10	< 1	46	34	46
10–15	7	154	28	161
15–20	8	303	25	311
20–30	15	320	31	335
30–40	2	935	23	937
40–60	1	467	41	468
60–80	1	20	93	21
80+	< 1	77	95	78
Total	36	1,613	18	1,649

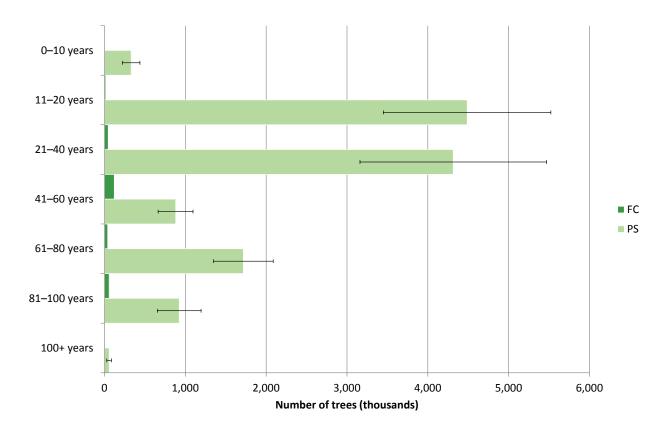


Figure 53 Number of ash trees by age class

Table 48 Number of ash trees by age class

	FC	Private secto	r	Total
Age class (years)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–10	0	329	33	329
11–20	12	4,486	23	4,498
21–40	46	4,314	27	4,360
41–60	120	879	25	998
61–80	38	1,718	22	1,756
81–100	56	924	29	980
100+	4	57	50	61
Total	276	12,706	13	12,982

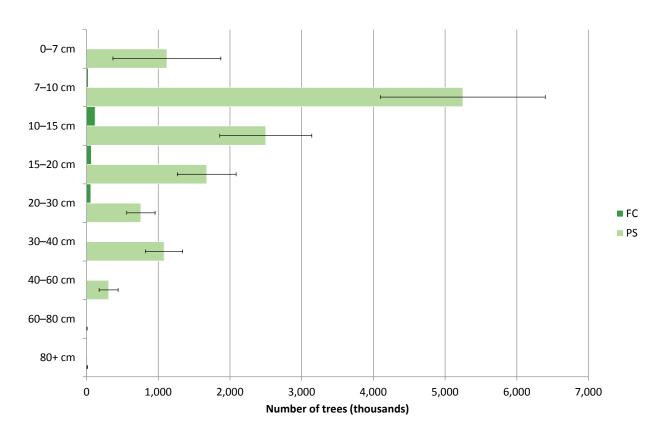


Figure 54 Number of ash trees by mean stand dbh class

Table 49 Number of ash trees by mean stand dbh class

Masin stand DDU	FC	Private secto	or	Total
Mean stand DBH (cm)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–7	0	1,121	67	1,121
7–10	25	5,249	22	5,274
10–15	120	2,500	26	2,619
15–20	67	1,677	24	1,744
20–30	60	758	26	818
30–40	4	1,082	24	1,086
40–60	< 1	308	43	309
60–80	< 1	4	93	5
80+	< 1	7	95	7
Total	276	12,706	13	12,982

Part 4 – Tree health



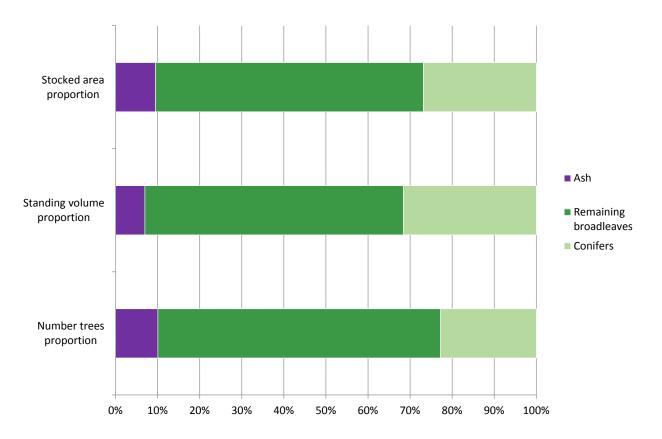


Table 50 Stocked area of ash as a proportion of woodland

	Stocked area of ash			
Aligned area	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia	0.2	11.5	10	11.7

Table 50 (cont'd) Stocked area of ash as a proportion of woodland

	Stocked area of all broadleaves and all species				
Aligned area	Total of all broadleaves	Total of all species	Percentage of ash in all broadleaves	Percentage of ash in all species	
	area (000 ha)	area (000 ha)	(percent)	(percent)	
East Anglia	90.9	124.2	13	9	

Table 51 Standing volume of ash as a proportion of woodland

Aligned area	Standing volume of ash			
	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia	36	1,613	18	1,649

Table 51 (cont'd) Standing volume of ash as a proportion of woodland

	Standing	Standing volume of all broadleaves and all species				
Aligned area	Total of all broadleaves	Total of all species	Percentage of ash in all broadleaves	Percentage of ash in all species		
	volume (000 m ³ obs)	volume (000 m ³ obs)	(percent)	(percent)		
East Anglia	16,181	23,651	10	7		

Table 52 Number of ash trees as a proportion of woodland

	Numbers of trees of ash			
Aligned Area	FC	Private sector		Total
	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia	276	12,706	13	12,982

Table 52 (cont'd) Number of ash trees as a proportion of woodland

	Number of trees of all broadleaves and all species				
Aligned Area	Total of all broadleaves	Total of all species	Percentage of ash in all broadleaves	Percentage of ash in all species	
	number of trees (thousands)	number of trees (thousands)	(percent)	(percent)	
East Anglia	99,654	129,037	13	10	

Oak

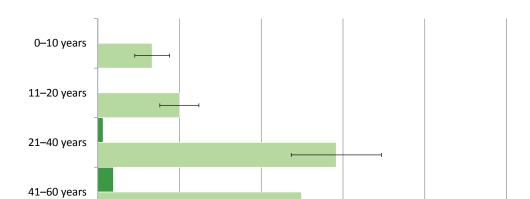


Figure 56 Stocked area of oak by age class

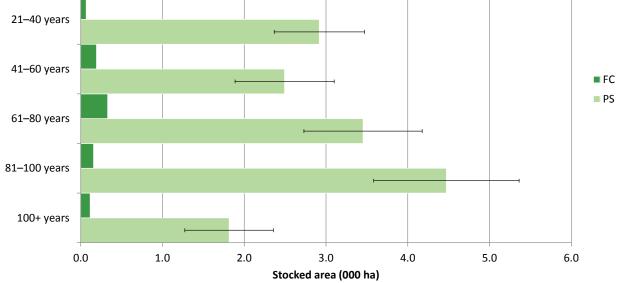


Table 53 Stocked area of oak by age class

	FC	Private secto	r	Total	
Age class (years)	area (000 ha)	area (000 ha)	SE%	area (000 ha)	
East Anglia					
0–10	< 0.1	0.7	32	0.7	
11–20	< 0.1	1.0	24	1.0	
21–40	< 0.1	2.9	19	3.0	
41–60	0.2	2.5	24	2.7	
61–80	0.3	3.5	21	3.8	
81–100	0.2	4.5	20	4.6	
100+	0.1	1.8	30	1.9	
Total	0.9	16.8	8	17.7	

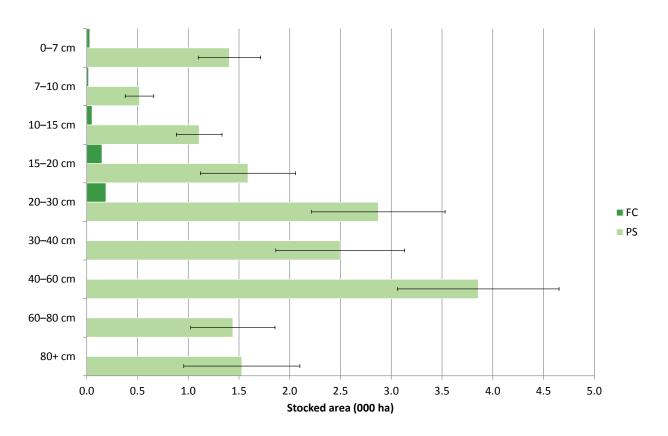




Table 54 Stocked area of oak by mean stand dbh class

	FC	Private sector		Total	
Mean stand DBH (cm)	area (000 ha)	area (000 ha) SE%		area (000 ha)	
East Anglia					
0–7	< 0.1	1.4	22	1.4	
7–10	< 0.1	0.5	27	0.5	
10–15	< 0.1	1.1	20	1.2	
15–20	0.2	1.6	30	1.7	
20–30	0.2	2.9	23	3.1	
30–40	< 0.1	2.5	25	2.5	
40–60	< 0.1	3.9	21	3.9	
60–80	0.0	1.4	29	1.4	
80+	0.0	1.5	37	1.5	
Total	0.9	16.8	8	17.7	

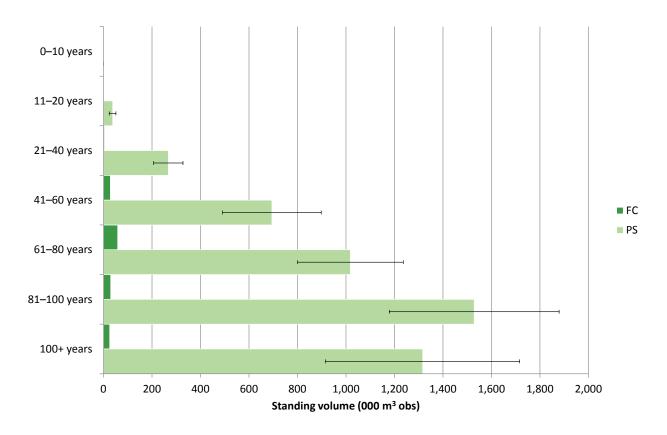


Figure 58 Standing volume of oak by age class

Table 55 Standing volume of oak by age class

	FC	Private secto	or	Total
Age class (years)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–10	0	0	-	0
11–20	< 1	37	37	37
21–40	4	267	23	271
41–60	28	694	29	723
61–80	58	1,018	21	1,076
81–100	29	1,529	23	1,558
100+	25	1,316	30	1,341
Total	144	4,861	12	5,005

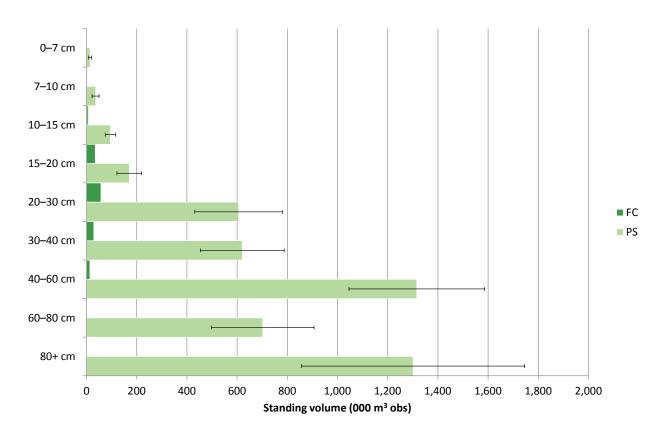


Figure 59 Standing volume of oak by mean stand dbh class

Table 56 Standing volume of oak by mean stand dbh class

Mean stand DPU	FC	Private secto	or	Total
Mean stand DBH (cm)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–7	< 1	14	39	14
7–10	2	36	38	38
10–15	6	95	21	101
15–20	35	170	29	205
20–30	58	606	29	664
30–40	29	621	27	650
40–60	14	1,316	21	1,329
60–80	< 1	702	29	702
80+	0	1,301	34	1,301
Total	144	4,861	12	5,005

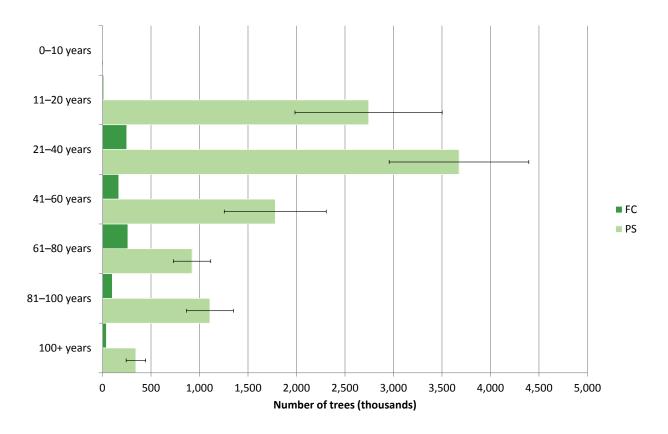


Figure 60 Number of oak trees by age class

Table 57 Number of oak trees by age class

	FC	Private secto	r	Total
Age class (years)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–10	0	0	-	0
11–20	12	2,743	28	2,755
21–40	250	3,675	20	3,925
41–60	168	1,781	30	1,949
61–80	262	923	21	1,184
81–100	101	1,108	22	1,209
100+	40	344	29	384
Total	831	10,575	12	11,406

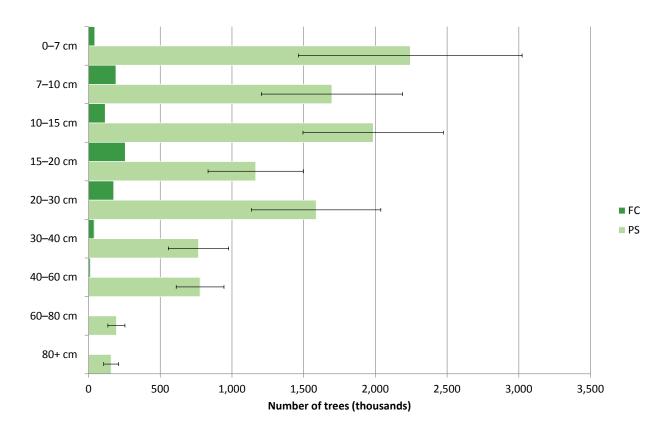


Figure 61 Number of oak trees by mean stand dbh class

Table 58 Number of oak trees by mean stand dbh class

	FC	Private secto	r	Total
Mean stand DBH (cm)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–7	43	2,243	35	2,287
7–10	191	1,697	29	1,889
10–15	116	1,985	25	2,101
15–20	256	1,165	29	1,421
20–30	175	1,587	28	1,762
30–40	39	767	27	806
40–60	10	778	21	788
60–80	< 1	195	31	195
80+	0	158	33	158
Total	831	10,575	12	11,406

Part 4 – Tree health



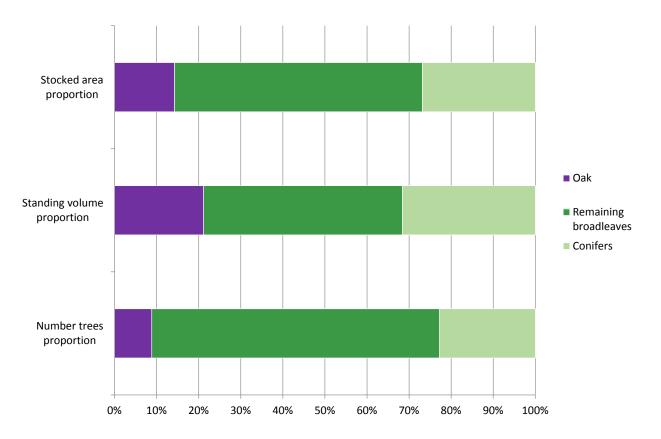


Table 59 Stocked area of oak as a proportion of woodland

	Stocked area of oak				
Aligned area	FC	Private sector		Total	
	area (000 ha)	area (000 ha)	SE%	area (000 ha)	
East Anglia	0.9	16.8	8	17.7	

Table 59 (cont'd) Stocked area of oak as a proportion of woodland

	Stocked area of all broadleaves and all species					
Aligned area	Total of all broadleaves	Total of all species	Percentage of oak in all broadleaves	Percentage of oak in all species		
	area (000 ha)	area (000 ha)	(percent)	(percent)		
East Anglia	90.9	124.2	19	14		

Table 60 Standing volume of oak as a proportion of woodland

	Standing volume of oak				
Aligned area	FC	Private sector		Total	
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)	
East Anglia	144	4,861	12	5,005	

Table 60 (cont'd) Standing volume of oak as a proportion of woodland

	Standing	Standing volume of all broadleaves and all species					
Aligned area	Total of all broadleaves	Total of all species	Percentage of oak in all broadleaves	Percentage of oak in all species			
	volume (000 m ³ obs)	volume (000 m ³ obs)	(percent)	(percent)			
East Anglia	16,181	23,651	31	21			

Table 61 Number of oak trees as a proportion of woodland

Aligned Area	Numbers of trees of oak				
	FC	Private sector		Total	
	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)	
East Anglia	831	10,575	12	11,406	

Table 61 (cont'd) Number of oak trees as a proportion of woodland

	Number of trees of all broadleaves and all species					
Aligned Area	Total of all broadleaves	Total of all species	Percentage of oak in all broadleaves	Percentage of oak in all species		
	number of trees (thousands)	number of trees (thousands)	(percent)	(percent)		
East Anglia	99,654	129,037	11	9		

Sweet chestnut

Figure 63 Stocked area of sweet chestnut by age class

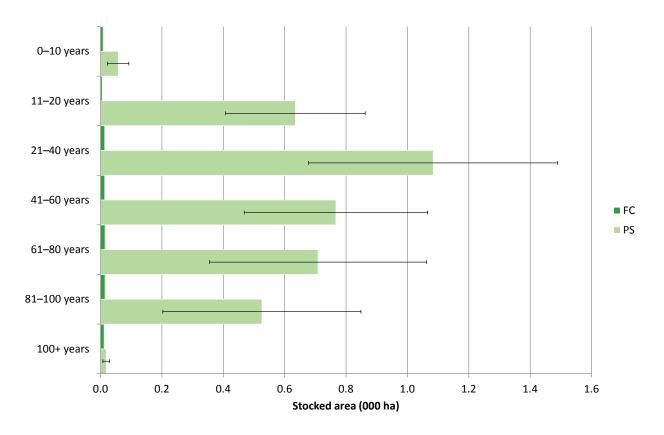


Table 62 Stocked area of sweet chestnut by age class

	FC	Private secto	or	Total
Age class (years)	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia				
0–10	< 0.1	< 0.1	60	< 0.1
11–20	< 0.1	0.6	36	0.6
21–40	< 0.1	1.1	37	1.1
41–60	< 0.1	0.8	39	0.8
61–80	< 0.1	0.7	50	0.7
81–100	< 0.1	0.5	61	0.5
100+	< 0.1	< 0.1	59	< 0.1
Total	< 0.1	3.8	21	3.9

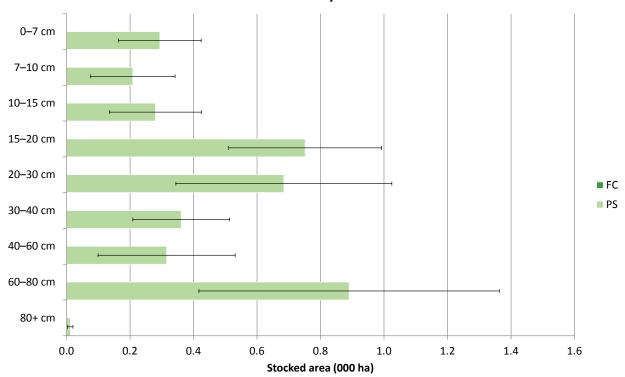


Figure 64 Stocked area of sweet chestnut by mean stand dbh class

Stocked area of sweet chestnut by mean stand diameter class

Table 63	Stocked area	of sweet c	hestnut hv	mean stand	dhh class
	SIUCKEU alea	UI SWEEL C	inestitut by	mean stand	

Mean stand DPU	FC	Private secto	or	Total
Mean stand DBH (cm)	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia				
0–7	0.0	0.3	44	0.3
7–10	0.0	0.2	64	0.2
10–15	0.0	0.3	52	0.3
15–20	0.0	0.8	32	0.8
20–30	0.0	0.7	50	0.7
30–40	0.0	0.4	42	0.4
40–60	0.0	0.3	69	0.3
60–80	0.0	0.9	53	0.9
80+	0.0	< 0.1	71	< 0.1
Total	< 0.1	3.8	21	3.9

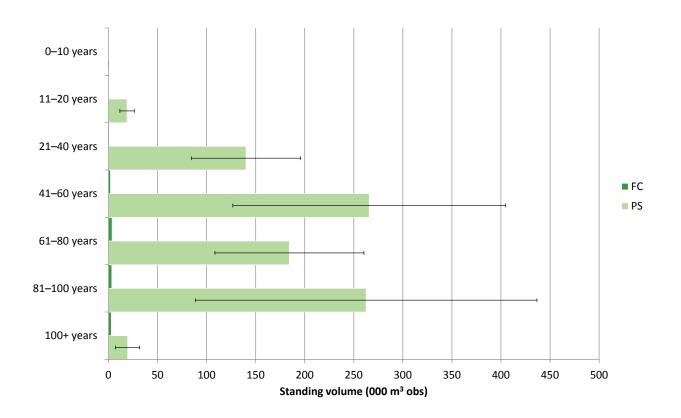


Figure 65 Standing volume of sweet chestnut by age class

Table 64 Standing volume of sweet chestnut by age class

	FC	Private secto	or	Total
Age class (years)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–10	0	0	-	0
11–20	< 1	19	39	19
21–40	< 1	140	40	141
41–60	2	266	52	268
61–80	4	184	41	188
81–100	3	263	66	266
100+	3	19	64	22
Total	13	891	29	904

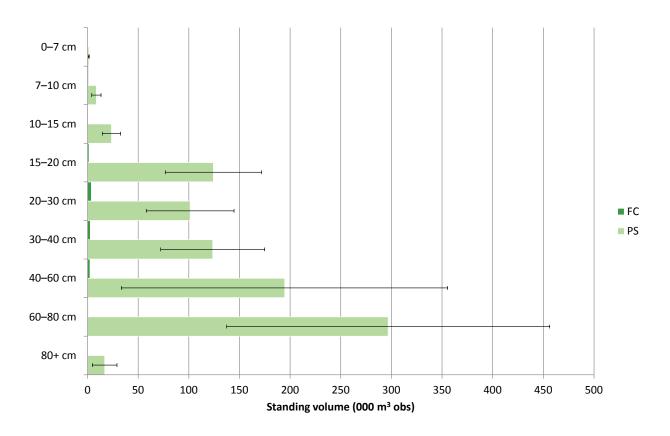


Figure 66 Standing volume of sweet chestnut by mean stand dbh class

Table 65 Standing volume of sweet chestnut by mean stand dbh class

Mean stand DDU	FC	Private secto	or	Total
Mean stand DBH (cm)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–7	< 1	1	38	1
7–10	< 1	9	53	10
10–15	< 1	24	38	24
15–20	1	124	38	126
20–30	4	101	43	105
30–40	3	124	42	126
40–60	2	194	83	197
60–80	< 1	297	54	297
80+	0	17	71	17
Total	13	891	29	904

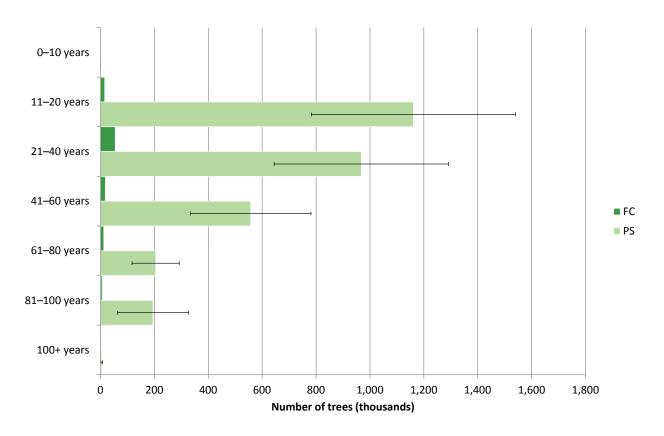


Figure 67 Number of sweet chestnut trees by age class

 Table 66 Number of sweet chestnut trees by age class

	FC	Private secto	or	Total
Age class (years)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–10	0	0	-	0
11–20	15	1,161	33	1,176
21–40	55	968	33	1,023
41–60	18	557	40	575
61–80	12	205	43	217
81–100	6	195	68	201
100+	2	4	65	7
Total	108	3,090	21	3,198

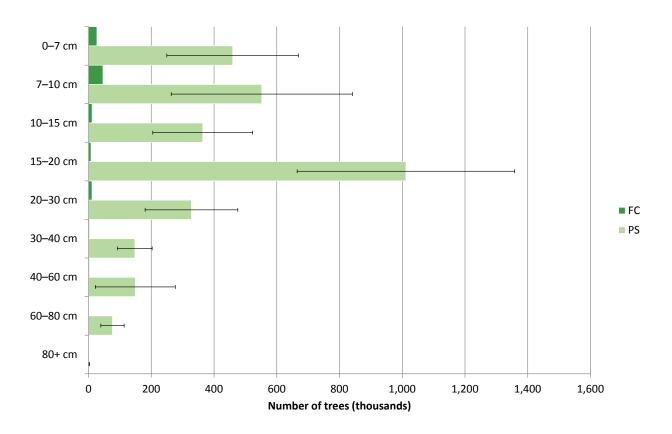


Figure 68 Number of sweet chestnut trees by mean stand dbh class

 Table 67 Number of sweet chestnut trees by mean stand dbh class

Mean stand DDU	FC	Private secto	or	Total
Mean stand DBH (cm)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–7	27	459	46	486
7–10	46	552	52	598
10–15	11	364	44	375
15–20	8	1,011	34	1,019
20–30	11	328	45	339
30–40	3	148	37	151
40–60	2	149	85	151
60–80	< 1	76	49	77
80+	0	2	71	2
Total	108	3,090	21	3,198

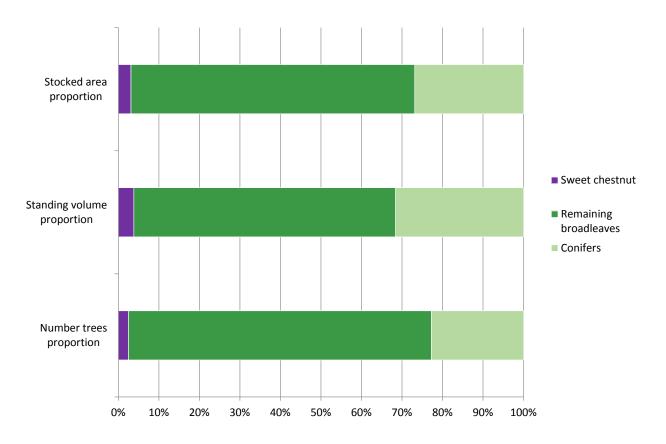


Figure 69 Sweet chestnut as a proportion of woodland

Table 68 Stocked area of sweet chestnut as a proportion of woodland

	Stocked area of sweet chestnut			
Aligned area	FC	Private sec	tor	Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia	< 0.1	3.8	21	3.9

Table 68 (cont'd) Stocked area of sweet chestnut as a proportion of woodland

	Stocked	Stocked area of all broadleaves and all species			
Aligned area	Total of all broadleaves	Total of all	Percentage of sweet chestnut in all broadleaves	sweet	
	area (000 ha)	area (000 ha)	(percent)	(percent)	
East Anglia	90.9	124.2	4	3	

Table 69 Standing volume of sweet chestnut as a proportion of woodland

	Standing volume of sweet chestnut			
Aligned area	FC	Private sec	tor	Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia	13	891	29	904

Table 69 (cont'd) Standing volume of sweet chestnut as a proportion of woodland

	Standing volume of all broadleaves and all species				
Aligned area	Total of all broadleaves	Total of all species	Percentage of sweet chestnut in all broadleaves	Percentage of sweet chestnut in all species	
	volume (000 m ³ obs)	volume (000 m ³ obs)	(percent)	(percent)	
East Anglia	16,181	23,651	6	4	

Table 70 Number of sweet chestnut trees as a proportion of woodland

	Numbers of trees of sweet chestnut			
Aligned Area	FC	Private sec	tor	Total
	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia	108	3,090	21	3,198

Table 70 (cont'd) Number of sweet chestnut trees as a proportion of woodland

	Number of trees of all broadleaves and all species			
Aligned Area	Total of all broadleaves	Total of all species	Percentage of sweet chestnut in all broadleaves	sweet
	number of trees (thousands)	number of trees (thousands)	(percent)	(percent)
East Anglia	99,654	129,037	3	2

Larch



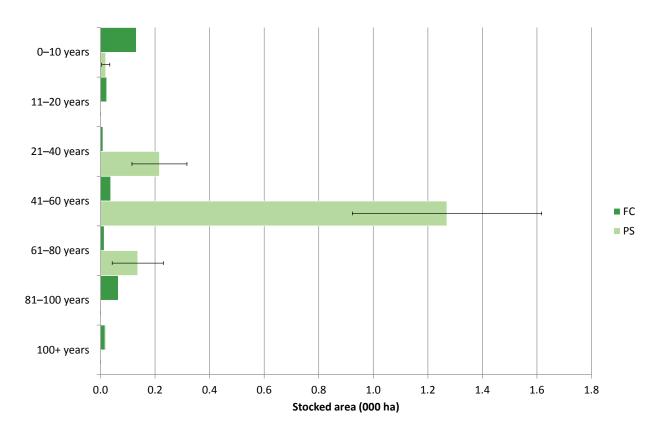


Table 71 Stocked area of larch by age class

	FC	Private secto	or	Total
Age class (years)	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia				
0–10	0.1	< 0.1	79	0.2
11–20	< 0.1	0.0	-	< 0.1
21–40	< 0.1	0.2	47	0.2
41–60	< 0.1	1.3	27	1.3
61–80	< 0.1	0.1	69	0.2
81–100	< 0.1	0.0	-	< 0.1
100+	< 0.1	0.0	-	< 0.1
Total	0.3	1.6	22	1.9

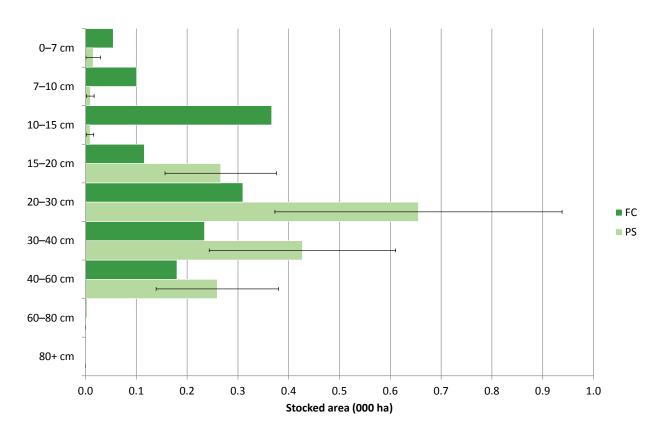




Table 72 Stocked area of larch by mean stand dbh class

Mean stand DBH	FC	Private secto	or	Total
(cm)	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia				
0–7	< 0.1	< 0.1	95	< 0.1
7–10	0.1	< 0.1	76	0.1
10–15	0.4	< 0.1	77	0.4
15–20	0.1	0.3	41	0.4
20–30	0.3	0.7	43	1.0
30–40	0.2	0.4	43	0.7
40–60	0.2	0.3	46	0.4
60–80	< 0.1	0.0	-	< 0.1
80+	0.0	0.0	-	0.0
Total	0.3	1.6	22	1.9

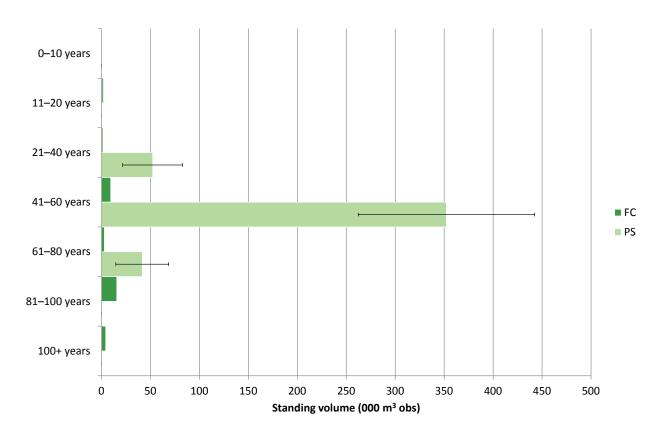


Figure 72 Standing volume of larch by age class

Table 73 Standing volume of larch by age class

	FC	Private secto	or	Total
Age class (years)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–10	< 1	< 1	106	< 1
11–20	2	0	-	2
21–40	1	52	58	54
41–60	9	352	26	361
61–80	3	42	65	44
81–100	16	0	-	16
100+	4	0	-	4
Total	35	446	22	481

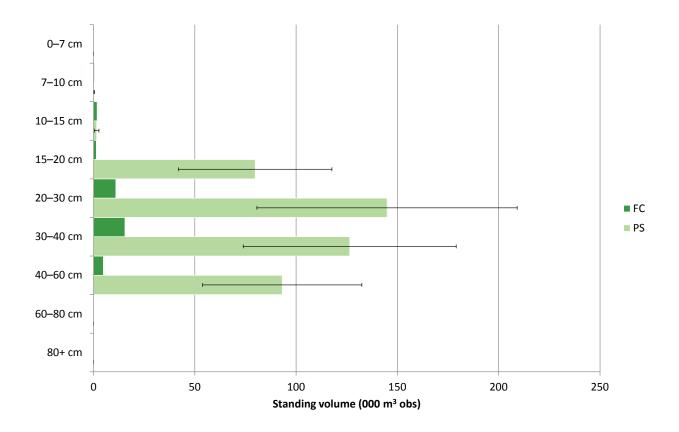


Figure 73 Standing volume of larch by mean stand dbh class

Table 74 Standing volume of larch by mean stand dbh class

Maan stand DDL	FC	Private secto	or	Total
Mean stand DBH (cm)	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia				
0–7	0	0	-	0
7–10	< 1	< 1	89	< 1
10–15	2	2	77	3
15–20	1	80	47	81
20–30	11	145	44	156
30–40	15	126	42	142
40–60	5	93	42	98
60–80	0	0	-	0
+08	0	0	-	0
Total	35	446	22	481

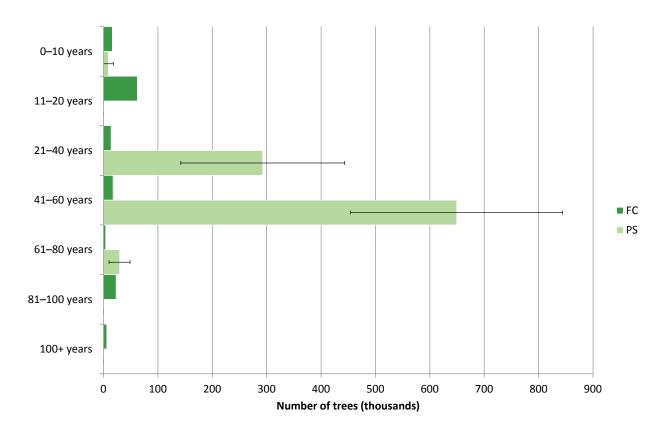


Figure 74 Number of larch trees by age class

Table 75 Number of larch trees by age class

	FC	Private secto	Total	
Age class (years)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–10	16	9	106	25
11–20	62	0	-	62
21–40	14	293	51	307
41–60	18	649	30	667
61–80	4	29	66	33
81–100	23	0	-	23
100+	6	0	-	6
Total	143	980	25	1,123

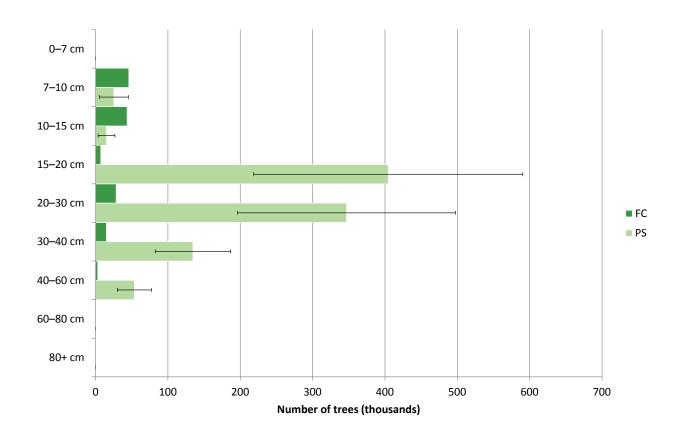


Figure 75 Number of larch trees by mean stand dbh class

Table 76 Number of larch trees by mean stand dbh class

Mean stand DDU	FC	Private secto	or	Total
Mean stand DBH (cm)	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia				
0–7	0	0	-	0
7–10	46	25	78	71
10–15	43	15	77	59
15–20	7	405	46	412
20–30	28	347	43	375
30–40	15	135	39	150
40–60	3	54	44	57
60–80	0	0	-	0
80+	0	0	-	0
Total	143	980	25	1,123

Figure 76 Larch as a proportion of woodland

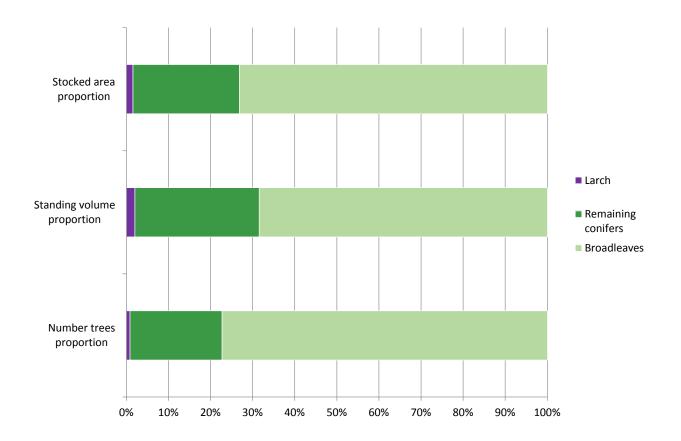


Table 77 Stocked area of larch as a proportion of woodland

	Stocked area of larch			
Aligned area	FC	Private sec	tor	Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
East Anglia	0.3	1.6	22	1.9

Table 77 (cont'd) Stocked area of larch as a proportion of woodland

	Stocked area of all conifers and all species				
Aligned area	Total of all conifers	Total of all species	Percentage of larch in all conifers	Percentage of larch in all species	
	area (000 ha)	area (000 ha)	(percent)	(percent)	
East Anglia	33.3	124.2	6	2	

Table 78 Standing volume of larch as a proportion of woodland

	Standing volume of larch			
Aligned area	FC	Private sec	tor	Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
East Anglia	35	446	22	481

Table 78 (cont'd) Standing volume of larch as a proportion of woodland

Standing volume of all conifers and all species				species
Aligned area	Total of all conifers	Total of all species	Percentage of larch in all conifers	Percentage of larch in all species
	volume (000 m ³ obs)	volume (000 m ³ obs)	(percent)	(percent)
East Anglia	7,46	2 23,651	6	2

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Table 79 Number of larch trees as a proportion of woodland

	Numbers of trees of larch			
Aligned Area	FC	Private sec	tor	Total
	number of trees (thousands)	number of trees (thousands)	SE%	number of trees (thousands)
East Anglia	143	980	25	1,123

Table 79 (cont'd) Number of larch trees as a proportion of woodland

Number of trees of all conifers and all specie				species
Aligned Area	Total of all conifers	Total of all species	Percentage of larch in all conifers	Percentage of larch in all species
	number of trees (thousands)	number of trees (thousands)	(percent)	(percent)
East Anglia	29,342	129,037	4	1

Appendix A – Aligned area nomenclature

Table 80 Aligned area long and short names

Long name	Short name	Abbreviation
		,
Cumbria and Lancashire	Cumbria and Lancashire	CLA
Devon Cornwall and the Isles of Scilly	Devon and Cornwall	DCS
East Anglia	East Anglia	EAN
East Midlands	East Midlands	EMD
Greater Manchester Merseyside and Cheshire	Gtr Mancs Mersey and Ches	GMC
Hertfordshire and North London	Herts and North London	HNL
Kent South London and East Sussex	Kent S London and E Sussex	KSL
Lincolnshire and Northamptonshire	Lincs and Northants	LNA
North East	North East	NEA
Solent and South Downs	Solent and South Downs	SSD
Thames	Thames	THS
Wessex	Wessex	WSX
West Midlands	West Midlands	WMD
Yorkshire	Yorkshire	YOR

Glossary

Actual production	Timber reported as having been felled and removed from the forest. The Forestry Commission keeps records of actual production for its estate, while estimates for the Private sector come from surveys of harvesting companies and timber processors. These figures are available from Forestry Commission Statistics.
Aerial photograph	Photograph of the ground taken from an elevated/direct–down position, with a camera that is not supported by a ground-based structure.
Age class	A grouping of trees into specific age ranges for classification purposes.
Area (forest/woodland)	Forest and woodland area can be defined in net or gross terms. Net area is the land actually covered by trees (in the National Forest Inventory that is to the drip line of the canopy). Gross area includes both the area covered by trees and the open spaces (<0.5 hectare) within (e.g. rides, glades, ponds).
Availability	A term to describe what timber could potentially be available for harvesting within a forest area.
Biological potential	A term applied to forecast scenarios with the objective of maximising timber production. It typically involves felling stands in the year of maximum MAI and management table thinning. It may not take account of factors that constrain thinning and felling (e.g. wind risk or pest attack). The forecast results set out in this report involve constraints on thinning and times of felling to take account of wind risk.
Broadleaves	Trees and shrubs that belong to the angiosperm division of the plant kingdom (as distinct from the gymnosperm division that includes conifers). Most in the UK have laminar leaves and are deciduous. Sometimes referred to as 'hardwoods'.
Canopy cover	Area covered by a mass of foliage and branches formed collectively by the crowns of trees.
Clearfell area	Area here all the trees have been felled at once. In non-clearfell areas, only some of the trees are felled at any one time.
Clearfelling	Cutting down of an area of woodland (if it is within a larger area of woodland it is typically a felling greater than 0.25 hectare). Sometimes a scatter or small clumps of trees may be left standing within the felled area.
Conifers	Trees and shrubs that belong to the gymnosperm division of the plant kingdom (as distinct from the angiosperm division that includes broadleaves). Conifers mostly have needles or scale-like leaves and are usually evergreen. Sometimes referred to as 'softwoods'.
Cumulative volume production	The total volume of timber that is forecast to be produced over the entire forecast period, including any overdue timber.
DAMS (Detailed Aspect Methodology Score)	A measure of exposure at a particular location. Can be used as a proxy indicator of the risk of catastrophic wind damage to a stand of trees. May be used to influence decisions on thinning and timing of clearfelling where wind is a risk factor.
DBH (diameter at breast height) Dothistroma needle	The diameter on the stem of a tree at 'breast height', defined as 1.3 m from ground level.
blight	A disease of conifers (especially pine) which causes defoliation, losses in yield and, in severe cases, tree death. Also known as red band needle blight.

NFI summary report

Felling plan	A spatial and temporal plan of harvesting activities within a forest or woodland.
Forest (or woodland)	Land predominately covered in trees (defined as land under stands of trees with a canopy cover of at least 20%, or the ability to achieve this, and with a minimum area of 0.5 hectare and minimum width of 20 m), whether in large tracts (generally called forests) or smaller areas known by a variety of terms (including woods, copses, spinneys or shelterbelts).
Forest management plan	A holistic spatial and temporal plan stating the objectives of management together with details of forestry proposals over a period of five years and outlining intentions over a minimum total of 10 years. Such plans allow managers to communicate proposals and demonstrate sustainable forest management. They can be used to authorise thinning, felling and other management operations.
Forest Service	An agency within the Department of Agriculture and Rural Development (DARD) in Northern Ireland responsible for the regulation of forestry and the management of state forests in Northern Ireland.
Forestry Commission	The government department responsible for regulating forestry, implementing forestry policy and managing state forests in England and Scotland. Forestry policy is devolved, with the exception of common issues addressed on a GB or UK basis, such as international forestry, plant health and forestry standards.
Forestry Commission	Forests, woodlands, open land and other property managed by the
(FC) estate	Forestry Commission.
Great Britain (GB)	England, Scotland and Wales.
Hardwood	The wood of broadleaved trees or the broadleaves themselves.
High forest	Woodland which is not managed as coppice or pollards and which may or may not be managed for timber.
Increment	The increase in volume of a tree or a stand over a year or annualised over a specified period measured either in m ³ per year or in m ³ per hectare per year. See also Mean Annual Increment (MAI).
Interpreted forest type (IFT)	Interpreted forest type is a classification of woodland into woodland types as identified from aerial photography and satellite imagery.
Interpreted open area (IOA)	Interpreted open are is a classification of open spaces within woodlands as identified from aerial photography and satellite imagery.
Like-for-like (restocking)	The restocking of areas of felled trees with trees of the same species and yield class.
Maximising productivity	The management of woodland to maximise volume production by thinning at the MTI.
Mean annual	The average annual rate of volume production from year of planting to a
increment (MAI)	given year, expressed in m ³ obs per hectare per year. In even-aged stands it is calculated by dividing cumulative volume production by age.
MTT (management table thinning)	A sequence of thinnings prescribed by Forestry Commission yield tables over the life of a forest stand. Management table thinning refers to the pattern of thinning recommended in these yield tables. In standard yield tables the thinnings are set to an intensity which aims to maximise diameter increment whilst also maintaining maximum cumulative volume production
MTI (marginal thinning intensity)	The maximum sustainable intensity of thinning defined as 70% of yield class per hectare per year (m ³ obs/ha/year).

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Maximum MAI	The age at which a stand reaches the maximum average rate of volume
(maximum mean	increment which it can achieve. Felling the stand at this age will ensure
annual increment)	that the stand reaches its highest average production per annum for its
(MMAI)	lifespan, thus optimising the stand in terms of volume production over
	the long term.
Mean annual	The average rate of volume production up to a given year, expressed in
increment (MAI)	m ³ per hectare per year. In even-aged stands it is calculated by dividing
	cumulative volume production by age.
Mensuration	The study of the measurement of lengths, areas, volumes and related
	quantities. Forest mensuration is concerned with the measurement of
	trees, woodlands and forests, including standing and felled timber.
National Forest	An inventory run by the Forestry Commission, set up in 2009, to provide
Inventory (NFI)	a record of key information about GB forests and woodlands.
National Inventory of	An inventory run by the Forestry Commission, set up in 1995 and
Woodland and Trees	completed in 2002, to provide a record of key information about GB
(NIWT)	forests and woodlands.
Natural Resources	Natural Resources Wales is the largest Welsh Government Sponsored
Wales (NRW)	Body - employing 1,900 staff across Wales with a budget of £180 million.
	NRW was formed in April 2013, largely taking over the functions of the
	Countryside Council for Wales, Forestry Commission Wales and the
	Environment Agency in Wales, as well as certain Welsh Government
	functions.
Overbark	Used as a qualification when the diameter or volume of wood includes the
	bark.
Overbark standing	Timber is defined in this report as the volume of stemwood to 7 cm top
(OBS)	diameter in m ³ overbark standing (obs), including stump (above ground)
(000)	and usable branchwood (of minimum 3 m in length and 7 cm top
	diameter).
Overdue	Timber contained in stands that are beyond the felling age prescribed by
	the harvesting scenario at the start of the forecast.
Phytophthora	Fungus-like pathogens that can cause extensive damage and mortality to
	trees and other plants.
Planned production	The volumes and assortments published in the removals forecast,
	reflecting the cumulative impact of managing the FC estate (as of 31
	March 2012) in accordance with approved forest design and thinning
	plans.
Potential production	A forecast which will not necessarily transpire. As the private sector
	estate forecast makes assumptions about future levels of harvest, and
	the assumptions may not transpire, this forecast is one of potential
	production.
Private sector estate	Forests and woodlands in the UK not managed by the Forestry
	Commission, Natural Resources Wales or Forest Service. In the context of
	the National Forest Inventory, 'Private sector' is used for convenience
	although it includes land owned or managed by bodies such as local
	authorities and charities.
Production forecast	A forecast of softwood volume production based on a firm plan of
Production for ecast	
Postocking plan	harvesting.
Restocking plan	A spatial and temporal plan describing how felled areas are to be
Satallita imagany	replanted or regenerated.
Satellite imagery	Imagery of the earth taken from space from a satellite.
Softwood	The wood of coniferous trees or the conifers themselves.

NFI summary report

Stand	A distinct area of woodland, generally composed of a uniform group of trees in terms of species composition and spatial distribution, and age and size class distribution.
Standard error (SE)	The measure of the margin of error associated with an estimate as a result of sampling from a population with statistical variability. Larger standard errors indicate less precision in the estimate. Standard errors in this report are quoted in relative terms (i.e. as percentages of the value of the estimate).
Standing volume	The live stemwood and usable branchwood of trees (up to 7 cm top diameter). It excludes roots, below ground stump material, small branches, foliage and deadwood. For Private sector woodland only, it also excludes trees in woodlands of less than 0.5 hectare. Usually expressed as m ³ overbark standing (m ³ obs).
Stemwood	The woody material forming the above ground main growing shoot(s) of a tree or stand of trees. The stem includes all woody volume above ground with a diameter greater than 7 cm overbark. Stemwood includes wood in major branches where there is at least 3 m of straight length to 7 cm top diameter.
Stocked area	The area stocked with living trees. The stocked areas in this report are quoted in gross terms for the FC/NRW estate and in net terms for the private sector estate (see the definition of area abve).
Sub-compartment database (SCDB)	A database owned and maintained by the Forestry Commission that holds an inventory of all stands of trees managed by the Forestry Commission (including that formerly managed by Forestry Commission Wales which is now managed by Natural Resources Wales).
Sustainable forest management	The stewardship and use of forests and forest lands in a way, and at a rate, that maintains their biodiversity, productivity, regeneration capacity and vitality and their potential to fulfil, now and in the future, relevant ecological, economic and social functions at local, national and global levels, and that does not cause damage to other ecosystems.
Terminal height	The top height of a stand at which wind damage is expected to reach a level necessitating clearfelling.
Thinning	The periodic harvesting of trees in a woodland, involving the removal of some trees for commercial use and the retention of others for future production or long-term retention.
Thinning plan	A spatial and temporal plan of harvesting activities within a forest or woodland.
Top diameter	The diameter of the smaller (top) end of a length of stemwood, branchwood or log, often used to define different categories of wood products (e.g. sawlogs, roundwood, pulp) and merchantable timber.
Top height	The mean total height of the 100 largest dbh trees per hectare.
UK (United Kingdom)	Great Britain and Northern Ireland.
Windthrow	Uprooting of trees by the wind. Windthrow can be endemic – i.e. that caused by frequently recurring peak winds – or catastrophic – an infrequent occurrence associated with exceptionally strong winds where large areas/numbers of trees are blown down.
Woodland	see Forest.
Yield class (YC)	An index used in the UK of the potential productivity of even-aged stands of trees based on maximum MAI. It reflects the potential productivity of the site for the tree species growing on it.

Aligned area reports in this series

This report is one in a series of reports describing the current stocks in woodland, the economic viability data, timber availability forecasts and estimates of the current stocks within woodland of four species currently at risk from pests and diseases.

Reports are available for:

- England
- Cumbria and Lancashire
- Devon Cornwall and the Isles of Scilly
- East Anglia
- East Midlands
- Greater Manchester Merseyside and Cheshire
- Hertfordshire and North London
- Kent South London and East Sussex
- Lincolnshire and Northamptonshire
- North East
- Solent and South Downs
- Thames
- Wessex
- West Midlands
- Yorkshire

The methodology, data sources and assumptions are described in the England report. It is important that the estimates presented in this report are interpreted in the light of the information provided in the England report.

NFI national reports and papers

This series of reports is part of the wider suite of publications from the National Forest Inventory (NFI). NFI reports that contain information relating to this series of reports are:

- NFI woodland area statistics, Great Britain, England, Scotland, Wales (2011)
- Standing timber volume for coniferous trees in Britain (2012)
- 25-year forecast of softwood availability (2012)
- 25-year forecast of standing coniferous volume and increment (2012)
- Preliminary estimates of broadleaved species in British woodlands, with special focus on ash (2012)
- Biomass in live woodland trees in Britain (2014)
- Carbon in live woodland trees in Britain (2014)
- 50-year forecast of softwood availability (2014)
- 50-year forecast of hardwood availability (2014)
- 25-year forecast of softwood availability (2016)

Each theme has a series of associated reports, papers and data, tailored for different audiences and uses.

This report is a supporting document for the Official Statistics report *National Forest Inventory statistics for England and aligned areas* (2017) and provides more detailed results for East Anglia.

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