

# NFI provisional estimates for woodland within 25 miles of Southampton

**Issued by:** National Forest Inventory, Forestry Commission,  
231 Corstorphine Road, Edinburgh, EH12 7AT

**Date:** March 2015

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[www.forestry.gov.uk/forecast](http://www.forestry.gov.uk/forecast)

## Summary

This report provides a detailed picture of the stocked area in woodland, the standing volume of timber and the associated live biomass and carbon stocks for woodland within a 25-mile radius of Southampton. These estimates are a subset of those published as part of the 2012 growing stock information presented in the National Forest Inventory (NFI) *50-year forecast of softwood timber availability (2014)* and *50-year forecast of hardwood timber availability (2014)*. NFI reports are published at [www.forestry.gov.uk/inventory](http://www.forestry.gov.uk/inventory).

In addition, the report provides forecasts of timber availability, standing volume and increment for softwoods and hardwoods arising from the stocked area and standing volume. Forecasts are based on the 'headline' harvesting scenario described in the 50-year forecasts NFI reports. An alternative forecast is provided using a harvesting scenario which brings all Private sector broadleaved woodland into production.

The estimates provided in this report are provisional in nature.



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## Approach

The approach taken in the derivation of these results and to be used in their interpretation is described in the full suite of forecast reports which can be found at [www.forestry.gov.uk/forecast](http://www.forestry.gov.uk/forecast). Refer to the *Standing timber volume for coniferous trees in Britain* (2012) and the *NFI preliminary estimates of quantities of broadleaved species in British woodlands with special focus on ash* (2012) reports for a description of the underlying methodologies and interpretation, and also for the England and Great Britain (GB) context. Refer to the *NFI forecasts methodology* (2012) overview report for a detailed description and discussion of forecasting future availability of timber from NFI field survey data and from information in the Forestry Commission's sub-compartment database (SCDB). The wider context of forecasts of timber production from woodland in GB and its constituent countries under a range of harvesting scenarios can be found in the *50-year forecast of softwood timber availability* (2014) and the *50-year forecast of hardwood timber availability* (2014).

The estimates reported here are based upon field samples assessed between October 2009 and August 2013, the results of which have been subjected to rigorous data quality assurance procedures. These field samples constitute approximately two-thirds of the sites to be sampled within the first cycle of NFI field sampling. As a consequence, the estimates in this report are classed as provisional.

## Results

The results presented in this report are estimates of standing volumes and stocked areas at 31 March 2012, and 50-year forecasts of softwood and hardwood availability under the 'headline' harvesting scenario and also under a scenario assuming all hardwoods are harvested in Private sector woodland within 25 miles of Southampton. The data sources used for the compilation of these estimates are the same as described in the NFI reports *Standing timber volume for coniferous trees in Britain* (2012), the *50-year forecast of softwood availability* (2014) and the *50-year forecast of hardwood availability* (2014). Estimates for the Forestry Commission (FC) estate are derived from the FC's SCDB, while those for the Private sector (i.e. non-FC) estate are derived from information collected in the NFI field survey. A fuller description of these data sources and how they are used in the production of estimates, including sampling standard errors (SEs) attached to the Private sector estimates, is provided in the earlier documents.

Results are provided for stocked area at 31 March 2012 (**Figures 1–1a** and **Tables 1–3**), felled area (**Table 4**), standing volume at 31 March 2012 (**Figures 2–2a** and **Tables 5–7**), biomass and carbon stocks at 31 March 2012 (**Tables 8–9**), evidence of thinning in Private sector stands from the NFI field survey (**Figure 3**), the 'headline' 50-year forecast (**Figures 4–8** and **Tables 10–12**) and the 'unrestricted' 50-year forecast

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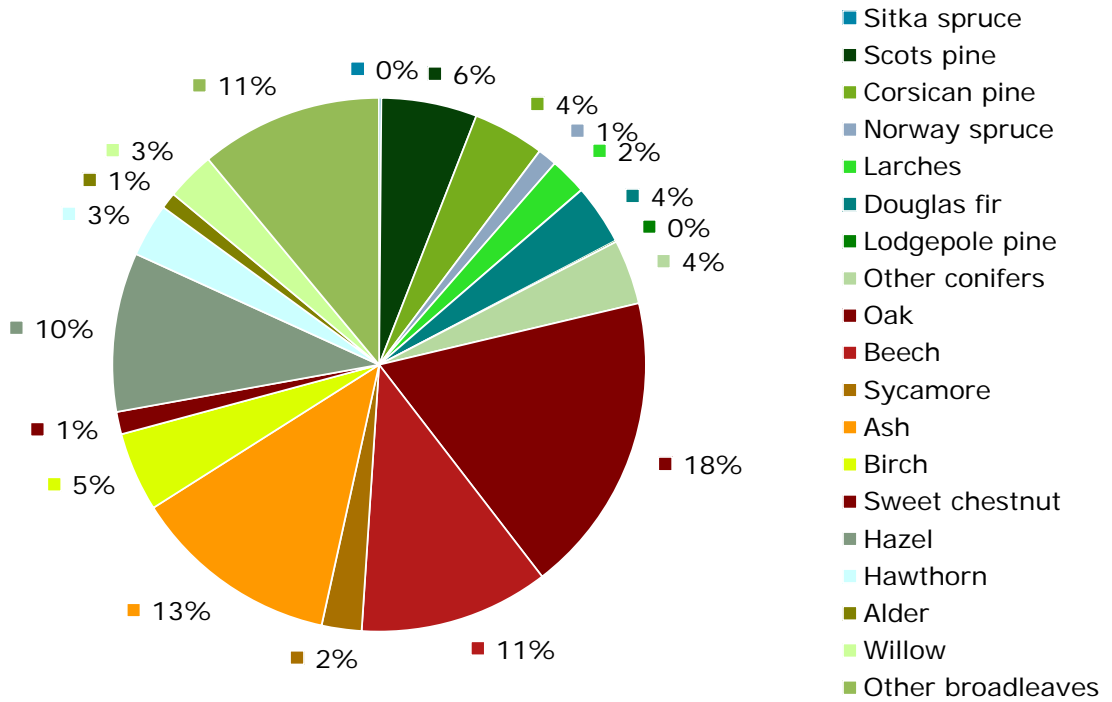
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(**Figures 9–13** and **Tables 13–15**). **Figures 14–15** and **Table 16** compare the hardwood production under the two scenarios.

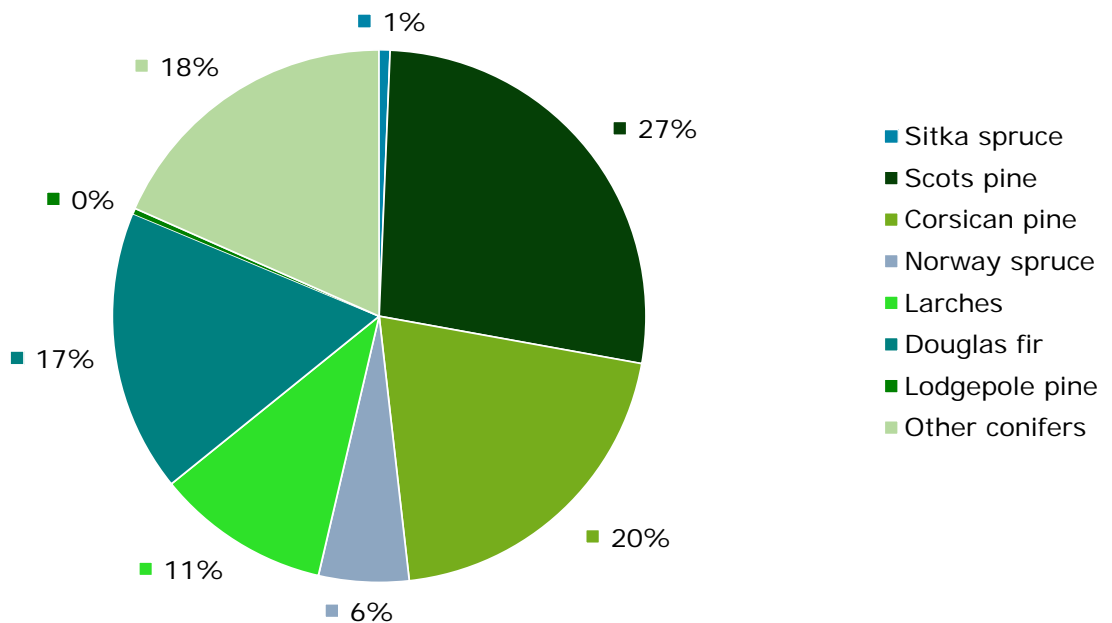
The values in the tables have been independently rounded, so may not add to the totals shown. In some breakdowns of Private sector estimates, the estimates in the body of the table may not sum to the quoted total because each individual value, including the total, has been independently generated by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

## Stocked area at 31 March 2012

**Figure 1** Principal tree species composition by stocked area at 31 March 2012



**Figure 1a** Principal conifer tree species composition by stocked area at 31 March 2012





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**Table 1** Stocked area by principal tree species at 31 March 2012

Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Conifers</b>				
Sitka spruce	0.0	0.0	64	<b>0.1</b>
Scots pine	2.1	1.8	23	<b>3.8</b>
Corsican pine	2.4	0.5	42	<b>2.9</b>
Norway spruce	0.4	0.4	37	<b>0.8</b>
Larches	0.3	1.2	27	<b>1.5</b>
Douglas fir	1.2	1.2	28	<b>2.4</b>
Lodgepole pine	0.0	0.0	100	<b>0.0</b>
Other conifers	0.6	2.0	20	<b>2.6</b>
<b>All conifers</b>	<b>7.0</b>	<b>7.1</b>	<b>8</b>	<b>14.1</b>
<b>Broadleaves</b>				
Oak	4.9	7.2	10	<b>12.1</b>
Beech	3.6	4.0	16	<b>7.6</b>
Sycamore	0.1	1.5	19	<b>1.6</b>
Ash	0.2	8.1	9	<b>8.3</b>
Birch	0.5	2.7	12	<b>3.2</b>
Sweet chestnut	0.1	0.8	31	<b>0.9</b>
Hazel	0.0	6.4	11	<b>6.4</b>
Hawthorn	0.0	2.1	17	<b>2.1</b>
Alder	0.1	0.6	27	<b>0.7</b>
Willow	0.0	2.0	19	<b>2.0</b>
Other broadleaves	1.1	6.2	9	<b>7.3</b>
<b>All broadleaves</b>	<b>10.6</b>	<b>41.4</b>	<b>2</b>	<b>51.9</b>
<b>All species</b>				
<b>All species</b>	<b>17.5</b>	<b>48.5</b>	<b>1</b>	<b>66.0</b>



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**Table 2** Stocked area by age class at 31 March 2012

Age class	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>All conifers</b>				
0–10 years	0.4	0.4	27	<b>0.7</b>
11–20 years	0.6	0.0	43	<b>0.6</b>
21–40 years	1.1	0.8	30	<b>1.9</b>
41–60 years	2.7	4.1	13	<b>6.8</b>
61–80 years	1.5	1.3	26	<b>2.7</b>
81–100 years	0.5	0.3	54	<b>0.8</b>
100+ years	0.3	0.3	57	<b>0.6</b>
<b>Total</b>	<b>7.0</b>	<b>7.1</b>	<b>8</b>	<b>14.1</b>
<b>All broadleaves</b>				
0–10 years	0.2	5.9	10	<b>6.1</b>
11–20 years	0.1	4.9	10	<b>5.0</b>
21–40 years	0.3	9.0	9	<b>9.3</b>
41–60 years	1.4	5.3	11	<b>6.7</b>
61–80 years	1.7	4.8	13	<b>6.6</b>
81–100 years	0.6	7.0	10	<b>7.6</b>
100+ years	6.2	4.4	13	<b>10.6</b>
<b>Total</b>	<b>10.6</b>	<b>41.4</b>	<b>2</b>	<b>51.9</b>
<b>All species</b>				
0–10 years	0.6	6.3	10	<b>6.8</b>
11–20 years	0.7	4.9	10	<b>5.6</b>
21–40 years	1.4	9.8	8	<b>11.2</b>
41–60 years	4.1	9.4	9	<b>13.5</b>
61–80 years	3.2	6.1	12	<b>9.3</b>
81–100 years	1.1	7.3	10	<b>8.4</b>
100+ years	6.5	4.7	13	<b>11.2</b>
<b>Total</b>	<b>17.5</b>	<b>48.5</b>	<b>1</b>	<b>66.0</b>

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**Table 3** Stocked area by mean stand DBH class at 31 March 2012

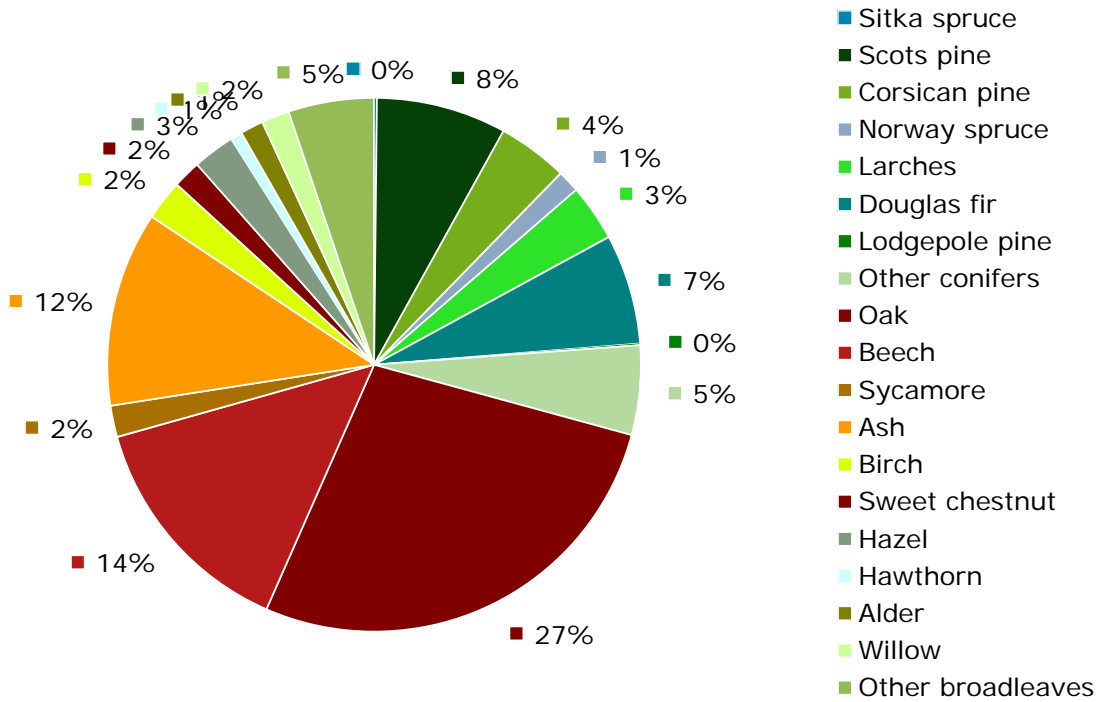
Mean stand DBH	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>All conifers</b>				
0–7 cm	0.4	0.4	27	<b>0.8</b>
7–10 cm	0.2	0.0	47	<b>0.2</b>
10–15 cm	0.5	0.1	43	<b>0.7</b>
15–20 cm	0.6	0.6	25	<b>1.2</b>
20–30 cm	1.4	1.9	20	<b>3.3</b>
30–40 cm	1.9	1.4	23	<b>3.3</b>
40–60 cm	1.6	2.1	18	<b>3.7</b>
60–80 cm	0.3	0.4	32	<b>0.6</b>
80+ cm	0.1	0.2	97	<b>0.2</b>
<b>Total</b>	<b>7.0</b>	<b>7.1</b>	<b>8</b>	<b>14.1</b>
<b>All broadleaves</b>				
0–7 cm	0.3	7.3	9	<b>7.6</b>
7–10 cm	0.3	7.7	9	<b>8.0</b>
10–15 cm	0.6	4.2	12	<b>4.9</b>
15–20 cm	0.9	3.3	12	<b>4.2</b>
20–30 cm	4.4	5.2	8	<b>9.6</b>
30–40 cm	2.6	4.8	13	<b>7.3</b>
40–60 cm	1.2	4.4	12	<b>5.6</b>
60–80 cm	0.3	3.3	14	<b>3.5</b>
80+ cm	0.1	1.1	26	<b>1.2</b>
<b>Total</b>	<b>10.6</b>	<b>41.4</b>	<b>2</b>	<b>51.9</b>
<b>All species</b>				
0–7 cm	0.7	7.7	8	<b>8.4</b>
7–10 cm	0.4	7.8	9	<b>8.2</b>
10–15 cm	1.2	4.4	12	<b>5.6</b>
15–20 cm	1.5	4.0	10	<b>5.5</b>
20–30 cm	5.8	7.1	8	<b>12.9</b>
30–40 cm	4.4	6.2	11	<b>10.6</b>
40–60 cm	2.8	6.5	10	<b>9.3</b>
60–80 cm	0.5	3.6	13	<b>4.1</b>
80+ cm	0.2	1.3	25	<b>1.5</b>
<b>Total</b>	<b>17.5</b>	<b>48.5</b>	<b>1</b>	<b>66.0</b>

**Table 4** Felled area at 31 March 2012

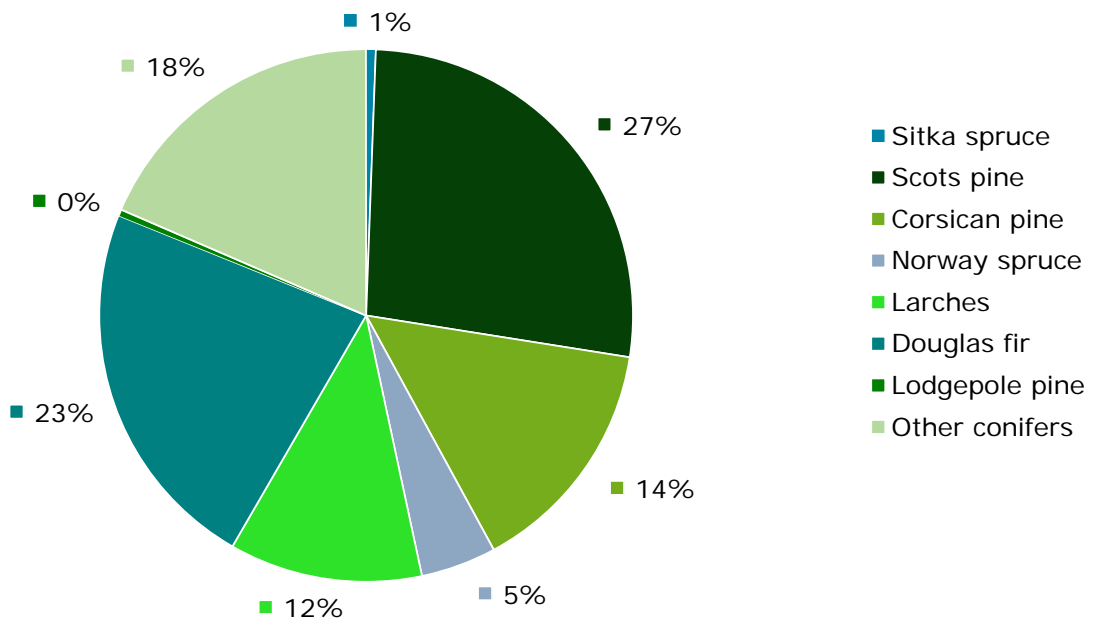
Clearfelled area	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
	0.4	0.2	42	<b>0.6</b>

## Standing volume at 31 March 2012

**Figure 2** Principal tree species composition by standing volume at 31 March 2012



**Figure 2a** Principal conifer tree species composition by standing volume at 31 March 2012



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**Table 5** Standing volume by principal tree species at 31 March 2012

Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>Conifers</b>				
Sitka spruce	13	17	63	<b>31</b>
Scots pine	668	763	24	<b>1,431</b>
Corsican pine	580	194	43	<b>774</b>
Norway spruce	102	141	33	<b>244</b>
Larches	59	563	28	<b>622</b>
Douglas fir	411	799	29	<b>1,210</b>
Lodgepole pine	6	15	100	<b>21</b>
Other conifers	232	751	23	<b>983</b>
<b>All conifers</b>	<b>2,071</b>	<b>3,244</b>	<b>9</b>	<b>5,315</b>
<b>Broadleaves</b>				
Oak	1,597	3,378	12	<b>4,975</b>
Beech	1,139	1,410	17	<b>2,550</b>
Sycamore	7	340	25	<b>347</b>
Ash	25	2,119	14	<b>2,145</b>
Birch	59	384	14	<b>442</b>
Sweet chestnut	30	279	27	<b>309</b>
Hazel	2	460	15	<b>462</b>
Hawthorn	0	129	25	<b>129</b>
Alder	16	239	38	<b>255</b>
Willow	0	308	32	<b>308</b>
Other broadleaves	195	746	17	<b>940</b>
<b>All broadleaves</b>	<b>3,068</b>	<b>9,716</b>	<b>5</b>	<b>12,784</b>
<b>All species</b>				
<b>All species</b>	<b>5,139</b>	<b>12,956</b>	<b>4</b>	<b>18,095</b>

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**Table 6** Standing volume by age class at 31 March 2012

Age class	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>All conifers</b>				
0–10 years	0	0	49	<b>0</b>
11–20 years	30	2	44	<b>31</b>
21–40 years	194	265	34	<b>459</b>
41–60 years	875	1,877	14	<b>2,752</b>
61–80 years	581	677	29	<b>1,259</b>
81–100 years	223	206	50	<b>430</b>
100+ years	168	216	54	<b>384</b>
<b>Total</b>	<b>2,071</b>	<b>3,244</b>	<b>9</b>	<b>5,315</b>
<b>All broadleaves</b>				
0–10 years	0	8	55	<b>8</b>
11–20 years	2	218	29	<b>220</b>
21–40 years	20	1,209	10	<b>1,229</b>
41–60 years	218	1,340	13	<b>1,558</b>
61–80 years	360	1,316	14	<b>1,676</b>
81–100 years	139	3,152	12	<b>3,291</b>
100+ years	2,330	2,473	15	<b>4,803</b>
<b>Total</b>	<b>3,068</b>	<b>9,716</b>	<b>5</b>	<b>12,784</b>
<b>All species</b>				
0–10 years	0	8	54	<b>8</b>
11–20 years	31	220	29	<b>251</b>
21–40 years	213	1,476	10	<b>1,689</b>
41–60 years	1,093	3,208	10	<b>4,301</b>
61–80 years	941	1,994	15	<b>2,936</b>
81–100 years	362	3,360	11	<b>3,722</b>
100+ years	2,498	2,689	14	<b>5,187</b>
<b>Total</b>	<b>5,139</b>	<b>12,956</b>	<b>4</b>	<b>18,095</b>

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**Table 7** Standing volume by mean stand DBH class at 31 March 2012

Mean stand DBH	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>All conifers</b>				
0–7 cm	0	0	78	<b>0</b>
7–10 cm	4	2	58	<b>6</b>
10–15 cm	52	18	38	<b>70</b>
15–20 cm	127	183	28	<b>309</b>
20–30 cm	487	698	20	<b>1,185</b>
30–40 cm	707	675	24	<b>1,382</b>
40–60 cm	548	1,390	20	<b>1,937</b>
60–80 cm	108	217	33	<b>325</b>
80+ cm	39	62	97	<b>101</b>
<b>Total</b>	<b>2,071</b>	<b>3,244</b>	<b>9</b>	<b>5,315</b>
<b>All broadleaves</b>				
0–7 cm	1	19	22	<b>20</b>
7–10 cm	9	300	11	<b>309</b>
10–15 cm	99	458	11	<b>557</b>
15–20 cm	200	627	13	<b>827</b>
20–30 cm	1,520	1,437	9	<b>2,957</b>
30–40 cm	860	1,761	14	<b>2,622</b>
40–60 cm	296	2,034	12	<b>2,329</b>
60–80 cm	57	2,202	16	<b>2,258</b>
80+ cm	27	878	24	<b>905</b>
<b>Total</b>	<b>3,068</b>	<b>9,716</b>	<b>5</b>	<b>12,784</b>
<b>All species</b>				
0–7 cm	1	19	22	<b>20</b>
7–10 cm	13	301	11	<b>315</b>
10–15 cm	151	476	11	<b>627</b>
15–20 cm	326	811	11	<b>1,137</b>
20–30 cm	2,007	2,124	9	<b>4,130</b>
30–40 cm	1,567	2,439	12	<b>4,006</b>
40–60 cm	843	3,427	11	<b>4,270</b>
60–80 cm	164	2,420	15	<b>2,584</b>
80+ cm	66	940	23	<b>1,006</b>
<b>Total</b>	<b>5,139</b>	<b>12,956</b>	<b>4</b>	<b>18,095</b>

## Biomass and carbon stocks at 31 March 2012

**Table 8** Standing biomass by principal tree species at 31 March 2012

Principal species	FC	Private sector		Total
	biomass (000 odt)	biomass (000 odt)	SE%	biomass (000 odt)
<b>Conifers</b>				
Sitka spruce	8	9	63	17
Scots pine	461	518	24	979
Corsican pine	346	111	44	458
Norway spruce	56	73	33	129
Larches	37	334	27	370
Douglas fir	270	492	29	761
Lodgepole pine	4	9	100	13
Other conifers	127	432	22	559
<b>All conifers</b>	<b>1,309</b>	<b>1,978</b>	<b>9</b>	<b>3,288</b>
<b>Broadleaves</b>				
Oak	1,402	2,847	12	4,248
Beech	1,081	1,240	17	2,321
Sycamore	6	278	25	284
Ash	23	1,726	13	1,749
Birch	56	360	14	416
Sweet chestnut	24	213	27	237
Hazel	2	455	13	457
Hawthorn	0	150	23	150
Alder	13	172	38	185
Willow	0	317	31	317
Other broadleaves	173	687	15	860
<b>All broadleaves</b>	<b>2,780</b>	<b>8,378</b>	<b>5</b>	<b>11,158</b>
<b>All species</b>				
<b>All species</b>	<b>4,089</b>	<b>10,355</b>	<b>4</b>	<b>14,444</b>



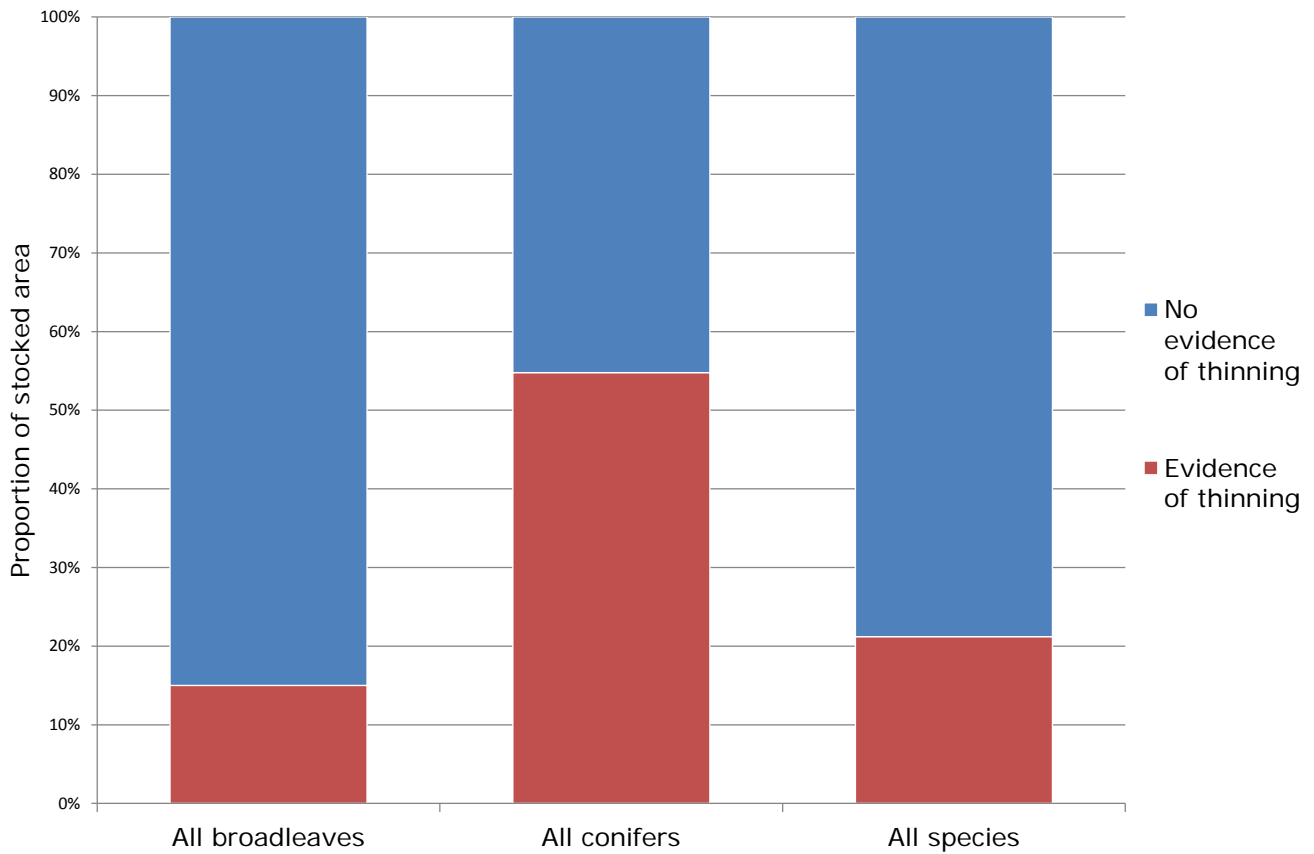
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**Table 9** Total carbon stocks in principal tree species at 31 March 2012

Principal species	FC	Private sector		Total
	carbon (000 t)	carbon (000 t)	SE%	carbon (000 t)
<b>Conifers</b>				
Sitka spruce	4	5	63	9
Scots pine	230	259	24	490
Corsican pine	173	56	44	229
Norway spruce	28	36	33	65
Larches	18	167	27	185
Douglas fir	135	246	29	381
Lodgepole pine	2	5	100	7
Other conifers	63	216	22	279
<b>All conifers</b>	<b>655</b>	<b>989</b>	<b>9</b>	<b>1,644</b>
<b>Broadleaves</b>				
Oak	701	1,423	12	2,124
Beech	540	620	17	1,161
Sycamore	3	139	25	142
Ash	12	863	13	875
Birch	28	180	14	208
Sweet chestnut	12	106	27	118
Hazel	1	228	13	229
Hawthorn	0	75	23	75
Alder	6	86	38	92
Willow	0	158	31	158
Other broadleaves	86	344	15	430
<b>All broadleaves</b>	<b>1,390</b>	<b>4,189</b>	<b>5</b>	<b>5,579</b>
<b>All species</b>				
<b>All species</b>	<b>2,045</b>	<b>5,178</b>	<b>4</b>	<b>7,222</b>

## Evidence of thinning

**Figure 3** Evidence of thinning in Private sector sites



## 50-year forecast of timber availability

Refer to the NFI report *50-year forecast of softwood timber availability (2014)* for a description of the underlying methodology and interpretation of the softwood forecast, and also for the England and GB context.

Refer to the NFI report *50-year forecast of hardwood timber availability (2014)* for a description of the underlying methodology and interpretation of the hardwood forecast, and also for the England and GB context.

In **Figures 4–8 and Tables 10–12** the estimates for the Forestry Commission are based on harvesting regimes derived from Forestry Commission felling and thinning plans as of 31 March 2012.

For the Private sector, information for **Figures 4–8 and Tables 10–12** is based on a scenario which assumes felling at age of maximum mean annual increment with moderate wind risk measures for conifers. For broadleaves, however, only those areas where there is evidence of thinning are assumed to be managed in future. This is a highly conservative assumption but better reflects current practice than assuming all stands will be managed. In turn it is assumed that these broadleaved stands are managed to felling at age of maximum mean annual increment with moderate wind risk measures.

Restocking assumptions for conifer stands clearfelled during the forecast period have been implemented that assume:

- a 10% reduction in the area of conifers on the subsequent rotation
- restocking of currently clearfelled land
- a change in the composition of conifer species on restocking

Restocking assumptions for broadleaved stands clearfelled during the forecast period have been included that assume:

- no reduction in stocked area
- like-for-like species choices are used for broadleaves
- 50% of the land associated with the reduction in conifer stocked area arising from the assumption above is stocked with broadleaves

A full description of the restocking assumptions is to be found in Table D3 of the *50-year forecast of softwood timber availability (2014)*. The same restocking assumptions have been applied to both the Forestry Commission and Private sector forecasts.

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Woodland that is classed as currently clearfelled will be restocked according to the restock prescription.

In **Figures 9–13** and **Tables 13–15** the management assumptions for the Private sector hardwoods have been changed to assume all hardwoods are thinned and felled rather than only those in areas that have evidence of thinning. In this report, the tables and figures for estimates under this management scenario will be labelled as 'unrestricted'.

**Figures 14–15** and **Table 16** compare the Private sector hardwood timber availability under the two scenarios. Figure 14 shows the Private sector hardwood availability for the two scenarios during the 50-year forecast. Figure 15 and Table 16 compare the hardwood availability in first 15 years of the forecast under the two scenarios.

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## 50-year forecast of timber availability under the 'headline' harvesting scenario

**Table 10** 50-year forecast of timber availability by time period and principal species

Principal species	2013–16			2017–21			2022–26			2027–31						
	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total				
	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)				
<b>All conifers</b>	<b>75</b>	<b>136</b>	<b>19</b>	<b>211</b>	<b>70</b>	<b>169</b>	<b>16</b>	<b>239</b>	<b>55</b>	<b>105</b>	<b>18</b>	<b>160</b>	<b>49</b>	<b>121</b>	<b>15</b>	<b>170</b>
Sitka spruce	0	0	91	1	0	2	77	2	0	0	91	0	0	0	91	0
Scots pine	17	18	25	35	17	27	24	43	11	15	27	26	12	24	32	36
Corsican pine	28	8	40	36	28	15	47	44	24	8	47	32	17	5	49	23
Norway spruce	5	4	41	8	4	12	43	16	3	1	36	4	2	17	50	20
Larches	2	23	27	26	2	36	34	38	2	16	33	17	1	13	36	14
Douglas fir	15	42	33	57	12	31	35	42	9	41	42	50	10	21	36	31
Lodgepole pine	0	0	100	1	0	0	-	0	0	3	100	4	0	0	-	0
Other conifers	8	41	53	49	7	47	51	53	5	21	35	26	5	41	37	46
<b>All broadleaves</b>	<b>25</b>	<b>104</b>	<b>22</b>	<b>129</b>	<b>5</b>	<b>87</b>	<b>26</b>	<b>92</b>	<b>21</b>	<b>40</b>	<b>25</b>	<b>61</b>	<b>5</b>	<b>29</b>	<b>21</b>	<b>35</b>
Oak	6	21	53	27	1	25	66	25	5	5	24	9	1	10	53	11
Beech	16	17	60	33	2	11	49	14	13	14	60	27	3	7	25	9
Sycamore	0	12	48	12	0	8	53	8	0	2	46	2	0	1	52	1
Ash	1	18	28	19	0	20	27	21	1	7	34	8	0	4	35	4
Birch	1	5	47	6	0	6	44	7	0	6	43	6	0	1	37	2
Sweet chestnut	0	1	54	2	0	1	51	1	0	1	51	1	0	2	56	2
Hazel	0	5	76	5	0	5	75	5	0	2	47	2	0	1	32	1
Hawthorn	0	0	50	0	0	0	53	0	0	0	56	0	0	0	56	0
Alder	0	0	70	0	0	0	68	0	0	0	66	0	0	0	65	0
Willow	0	0	47	0	0	0	40	0	0	0	37	0	0	1	31	1
Other broadleaves	2	23	53	24	1	10	75	10	1	3	52	4	1	2	19	2
<b>All species</b>	<b>101</b>	<b>239</b>	<b>15</b>	<b>340</b>	<b>74</b>	<b>256</b>	<b>13</b>	<b>331</b>	<b>76</b>	<b>144</b>	<b>15</b>	<b>220</b>	<b>54</b>	<b>151</b>	<b>15</b>	<b>205</b>

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**Table 10 (cont'd)** 50-year forecast of timber availability by time period and principal species

Principal species	2032-36			2037-41			2042-46			2047-51						
	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total				
	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)				
<b>All conifers</b>	<b>45</b>	<b>107</b>	<b>17</b>	<b>152</b>	<b>42</b>	<b>73</b>	<b>29</b>	<b>114</b>	<b>72</b>	<b>56</b>	<b>13</b>	<b>128</b>	<b>44</b>	<b>66</b>	<b>26</b>	<b>110</b>
Sitka spruce	1	1	37	2	1	1	31	2	3	2	23	5	1	3	20	4
Scots pine	9	39	35	47	9	23	28	31	15	19	29	34	9	25	64	34
Corsican pine	19	3	57	23	15	20	98	35	30	4	98	34	11	0	30	11
Norway spruce	2	3	80	5	3	2	51	5	3	2	56	5	4	1	26	5
Larches	1	12	38	13	1	9	41	10	3	8	43	11	2	8	43	10
Douglas fir	9	20	38	29	9	10	31	19	12	13	26	24	10	11	25	21
Lodgepole pine	0	0	-	0	0	0	35	0	0	0	35	0	0	0	82	0
Other conifers	4	29	42	33	4	8	29	12	7	8	19	15	6	18	27	24
<b>All broadleaves</b>	<b>17</b>	<b>35</b>	<b>26</b>	<b>52</b>	<b>25</b>	<b>41</b>	<b>20</b>	<b>66</b>	<b>34</b>	<b>61</b>	<b>32</b>	<b>95</b>	<b>15</b>	<b>37</b>	<b>11</b>	<b>51</b>
Oak	4	4	25	8	2	4	24	6	14	10	53	24	7	5	45	12
Beech	10	13	56	24	21	17	43	38	14	26	71	40	5	6	28	10
Sycamore	0	1	44	1	0	2	41	2	0	2	38	2	0	3	31	3
Ash	1	4	21	5	0	6	22	7	1	7	22	8	1	10	22	11
Birch	0	1	32	2	0	3	50	3	1	4	47	5	1	3	21	3
Sweet chestnut	0	7	71	7	0	1	61	1	0	1	57	2	0	1	64	1
Hazel	0	1	29	1	0	3	51	3	0	3	40	3	0	5	22	5
Hawthorn	0	0	34	0	0	1	26	1	0	1	25	1	0	1	24	1
Alder	0	0	65	0	0	0	65	0	0	0	68	0	0	0	83	0
Willow	0	1	29	1	0	1	28	1	0	2	48	2	0	1	41	1
Other broadleaves	1	2	22	3	1	4	25	5	3	4	21	7	1	3	25	4
<b>All species</b>	<b>63</b>	<b>141</b>	<b>14</b>	<b>203</b>	<b>67</b>	<b>114</b>	<b>20</b>	<b>180</b>	<b>105</b>	<b>117</b>	<b>18</b>	<b>222</b>	<b>59</b>	<b>102</b>	<b>18</b>	<b>161</b>

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**Table 10 (cont'd)** 50-year forecast of timber availability by time period and principal species

Principal species	2052-56			2057-61				
	FC	Private sector	Total	FC	Private sector	Total		
	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)		
<b>All conifers</b>	<b>42</b>	<b>56</b>	<b>11</b>	<b>98</b>	<b>54</b>	<b>59</b>	<b>10</b>	<b>113</b>
Sitka spruce	1	4	15	5	1	4	15	5
Scots pine	10	9	22	19	13	11	20	24
Corsican pine	12	0	32	13	12	0	32	12
Norway spruce	3	3	35	6	5	4	30	9
Larches	1	8	41	9	2	8	37	10
Douglas fir	9	13	24	22	12	13	24	24
Lodgepole pine	0	0	82	0	1	0	82	1
Other conifers	5	19	21	24	8	19	20	27
<b>All broadleaves</b>	<b>19</b>	<b>50</b>	<b>22</b>	<b>70</b>	<b>23</b>	<b>44</b>	<b>23</b>	<b>67</b>
Oak	6	8	47	14	5	7	56	12
Beech	10	16	63	26	15	10	45	25
Sycamore	0	2	41	2	0	1	50	1
Ash	1	12	17	13	1	4	32	5
Birch	0	2	27	3	1	2	26	3
Sweet chestnut	0	1	64	1	1	10	77	11
Hazel	0	3	28	3	0	2	34	3
Hawthorn	0	1	24	1	0	1	23	1
Alder	0	0	81	0	0	0	-	0
Willow	0	1	30	1	0	2	67	2
Other broadleaves	1	5	50	6	1	3	31	4
<b>All species</b>	<b>62</b>	<b>106</b>	<b>12</b>	<b>167</b>	<b>77</b>	<b>103</b>	<b>11</b>	<b>180</b>



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**Table 11** 50-year forecast of standing volume; annual average volumes within periods

Forecast period	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>All conifers</b>				
2013–16	2,043	3,009	9	<b>5,052</b>
2017–21	2,065	2,626	10	<b>4,691</b>
2022–26	2,109	2,191	12	<b>4,300</b>
2027–31	2,166	1,837	13	<b>4,003</b>
2032–36	2,220	1,480	15	<b>3,700</b>
2037–41	2,267	1,411	14	<b>3,678</b>
2042–46	2,227	1,336	13	<b>3,563</b>
2047–51	2,183	1,322	12	<b>3,505</b>
2052–56	2,204	1,442	11	<b>3,646</b>
2057–61	2,178	1,571	10	<b>3,749</b>
<b>All broadleaves</b>				
2013–16	3,055	9,807	5	<b>12,862</b>
2017–21	3,127	10,172	5	<b>13,298</b>
2022–26	3,179	10,806	5	<b>13,986</b>
2027–31	3,242	11,682	5	<b>14,925</b>
2032–36	3,304	12,556	4	<b>15,860</b>
2037–41	3,279	13,361	4	<b>16,640</b>
2042–46	3,295	13,977	4	<b>17,272</b>
2047–51	3,272	14,667	4	<b>17,939</b>
2052–56	3,302	15,246	4	<b>18,548</b>
2057–61	3,291	15,688	4	<b>18,978</b>
<b>All species</b>				
2013–16	5,098	12,812	4	<b>17,910</b>
2017–21	5,191	12,792	4	<b>17,983</b>
2022–26	5,288	12,997	4	<b>18,285</b>
2027–31	5,408	13,517	4	<b>18,925</b>
2032–36	5,524	14,036	4	<b>19,560</b>
2037–41	5,546	14,768	4	<b>20,314</b>
2042–46	5,522	15,307	4	<b>20,829</b>
2047–51	5,455	15,977	4	<b>21,432</b>
2052–56	5,507	16,673	4	<b>22,179</b>
2057–61	5,469	17,239	4	<b>22,708</b>

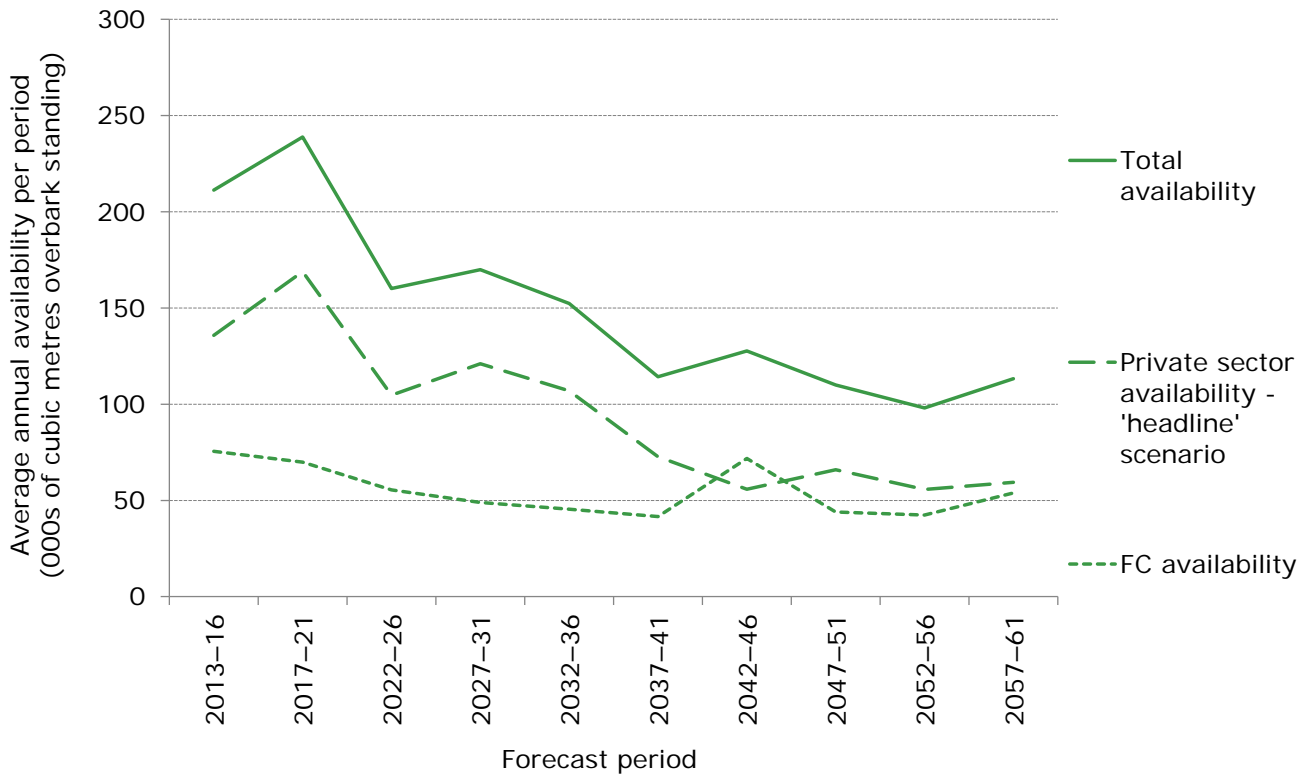
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**Table 12** 50-year forecast of net increment; annual average volumes within periods

Forecast period	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>All conifers</b>				
2013–16	70	68	10	<b>138</b>
2017–21	67	65	10	<b>132</b>
2022–26	61	51	11	<b>112</b>
2027–31	57	45	11	<b>103</b>
2032–36	54	44	11	<b>98</b>
2037–41	52	51	10	<b>103</b>
2042–46	49	60	9	<b>110</b>
2047–51	46	70	8	<b>117</b>
2052–56	46	79	8	<b>125</b>
2057–61	46	86	7	<b>132</b>
<b>All broadleaves</b>				
2013–16	24	148	7	<b>173</b>
2017–21	25	178	4	<b>203</b>
2022–26	24	201	4	<b>225</b>
2027–31	24	208	3	<b>232</b>
2032–36	25	205	4	<b>230</b>
2037–41	23	197	4	<b>220</b>
2042–46	23	183	4	<b>206</b>
2047–51	22	168	4	<b>190</b>
2052–56	22	153	4	<b>175</b>
2057–61	20	139	4	<b>160</b>
<b>All species</b>				
2013–16	94	217	6	<b>311</b>
2017–21	92	243	4	<b>335</b>
2022–26	85	252	3	<b>337</b>
2027–31	82	253	3	<b>334</b>
2032–36	79	249	3	<b>327</b>
2037–41	75	247	3	<b>322</b>
2042–46	72	242	3	<b>314</b>
2047–51	68	237	4	<b>305</b>
2052–56	68	231	4	<b>299</b>
2057–61	66	224	4	<b>290</b>

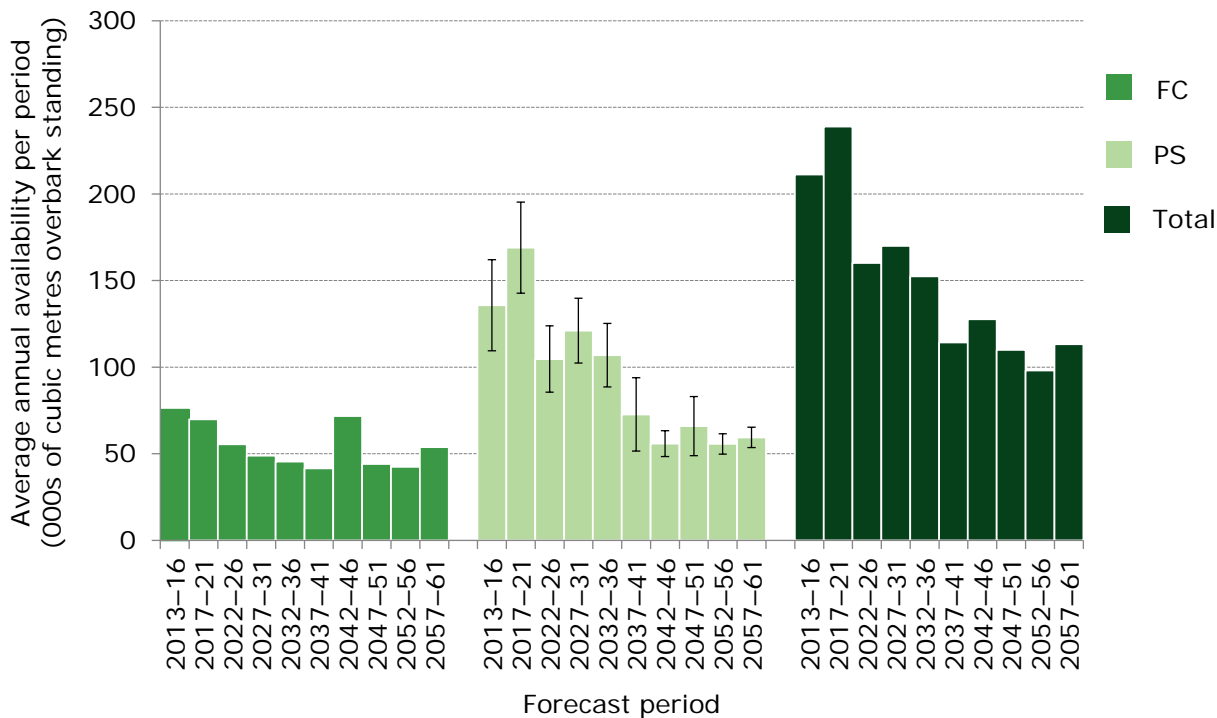
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**Figure 4** Overview of 50-year forecast of average annual softwood availability

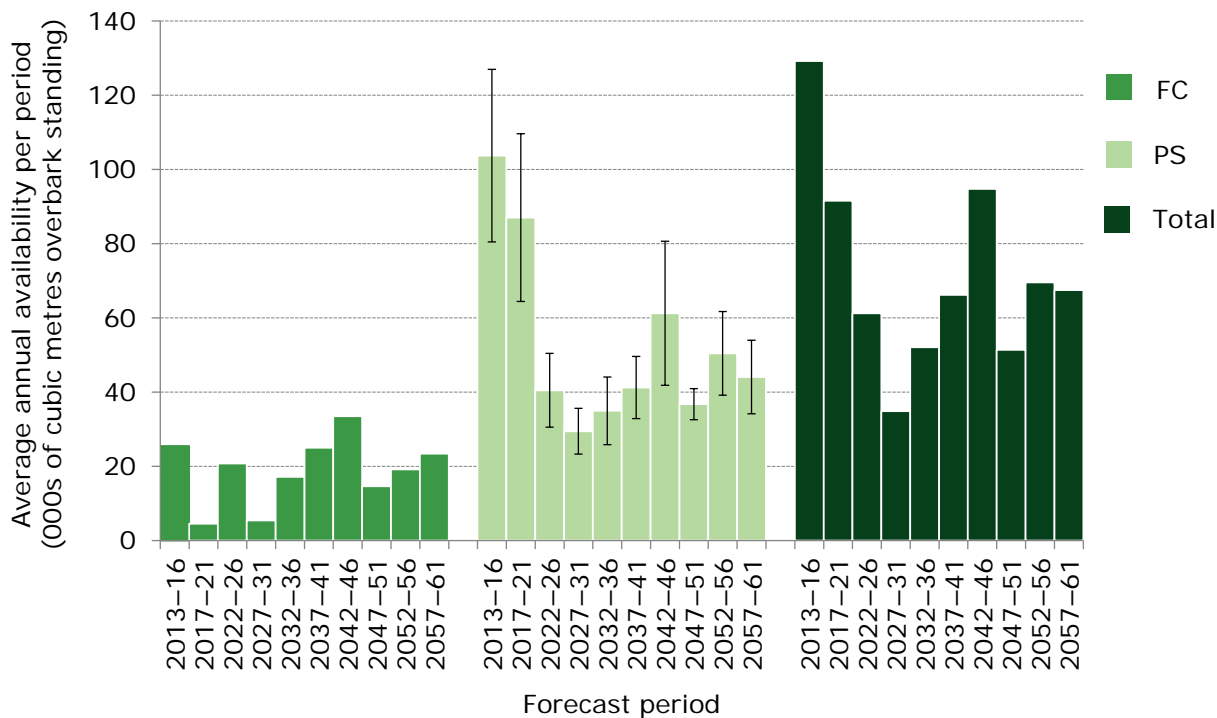


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**Figure 5** 50-year forecast of average annual softwood availability

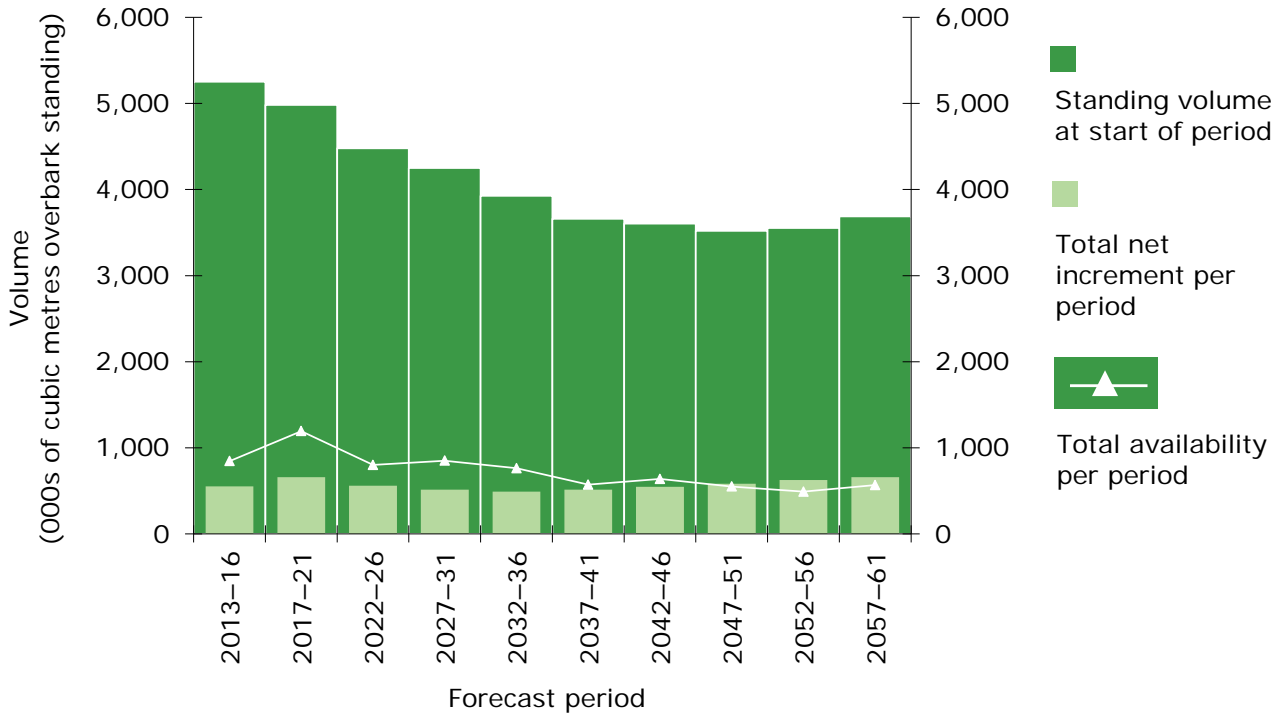


**Figure 6** 50-year forecast of average annual hardwood availability

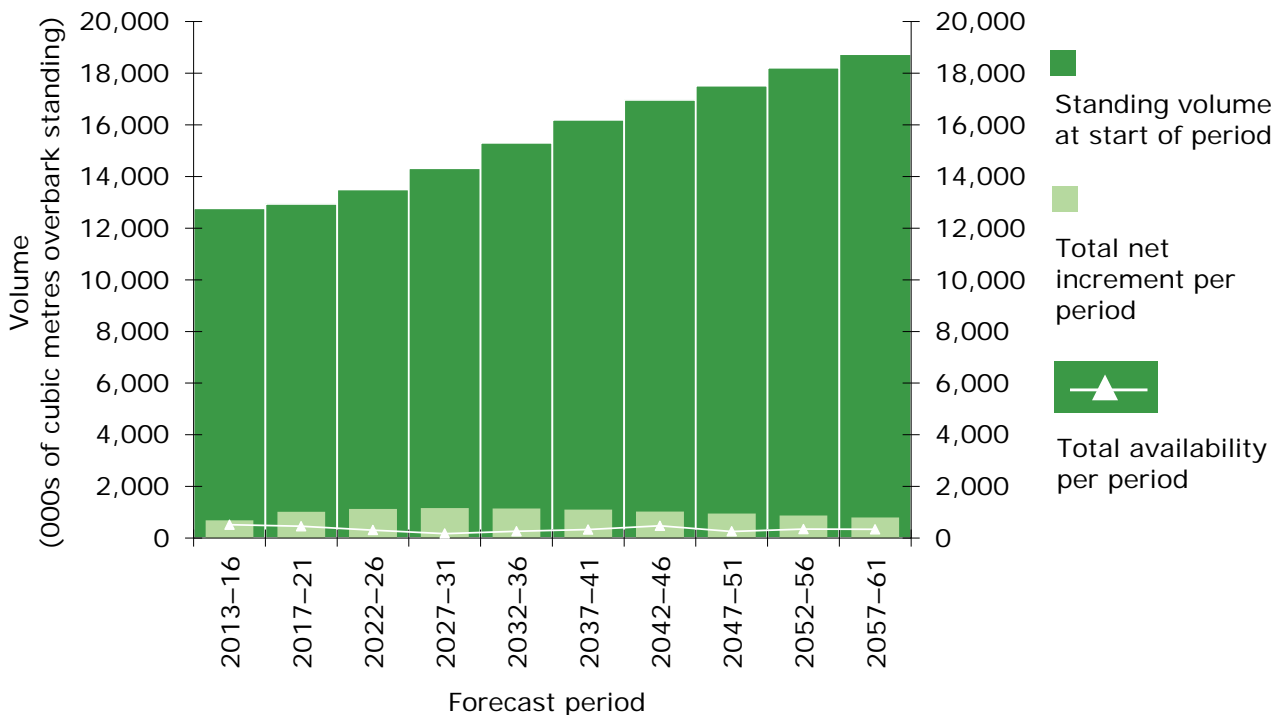


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**Figure 7** 50-year forecast of softwood standing volume, increment and availability



**Figure 8** 50-year forecast of hardwood standing volume, increment and availability



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## 50-year forecast of timber availability under the 'unrestricted' scenario

**Table 13** 50-year forecast of timber availability by time period and principal species – unrestricted biological potential for Private sector hardwoods

Principal species	2013–16			2017–21			2022–26			2027–31						
	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total				
	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)				
<b>All conifers</b>	<b>75</b>	<b>136</b>	<b>19</b>	<b>211</b>	<b>70</b>	<b>169</b>	<b>16</b>	<b>239</b>	<b>55</b>	<b>105</b>	<b>18</b>	<b>160</b>	<b>49</b>	<b>121</b>	<b>15</b>	<b>170</b>
Sitka spruce	0	0	91	1	0	2	77	2	0	0	91	0	0	0	91	0
Scots pine	17	18	25	35	17	27	24	43	11	15	27	26	12	24	32	36
Corsican pine	28	8	40	36	28	15	47	44	24	8	47	32	17	5	49	23
Norway spruce	5	4	41	8	4	12	43	16	3	1	36	4	2	17	50	20
Larches	2	23	27	26	2	36	34	38	2	16	33	17	1	13	36	14
Douglas fir	15	42	33	57	12	31	35	42	9	41	42	50	10	21	36	31
Lodgepole pine	0	0	100	1	0	0	-	0	0	3	100	4	0	0	-	0
Other conifers	8	41	53	49	7	47	51	53	5	21	35	26	5	41	37	46
<b>All broadleaves</b>	<b>25</b>	<b>627</b>	<b>9</b>	<b>652</b>	<b>5</b>	<b>462</b>	<b>7</b>	<b>467</b>	<b>21</b>	<b>225</b>	<b>7</b>	<b>246</b>	<b>5</b>	<b>179</b>	<b>9</b>	<b>184</b>
Oak	6	75	22	81	1	76	26	77	5	39	16	44	1	58	20	59
Beech	16	31	37	47	2	24	26	26	13	29	32	41	3	22	21	25
Sycamore	0	39	27	39	0	32	26	32	0	8	22	8	0	7	22	7
Ash	1	280	18	281	0	161	11	161	1	56	12	56	0	40	23	40
Birch	1	34	16	35	0	35	15	35	0	23	18	24	0	15	35	15
Sweet chestnut	0	12	39	13	0	11	40	12	0	6	27	7	0	5	31	5
Hazel	0	42	16	42	0	40	16	40	0	26	24	26	0	8	17	8
Hawthorn	0	8	36	8	0	8	37	8	0	4	25	4	0	3	24	3
Alder	0	22	42	22	0	23	42	23	0	9	32	9	0	1	38	1
Willow	0	17	44	17	0	10	32	10	0	6	24	6	0	6	23	6
Other broadleaves	2	73	22	75	1	52	22	52	1	20	15	22	1	16	13	16
<b>All species</b>	<b>101</b>	<b>762</b>	<b>8</b>	<b>863</b>	<b>74</b>	<b>631</b>	<b>6</b>	<b>706</b>	<b>76</b>	<b>328</b>	<b>7</b>	<b>404</b>	<b>54</b>	<b>300</b>	<b>9</b>	<b>355</b>

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**Table 13 (cont'd)** 50-year forecast of timber availability by time period and principal species – unrestricted biological potential for Private sector hardwoods

Principal species	2032–36			2037–41			2042–46			2047–51						
	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total				
	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)				
<b>All conifers</b>	<b>45</b>	<b>107</b>	<b>17</b>	<b>152</b>	<b>42</b>	<b>73</b>	<b>29</b>	<b>114</b>	<b>72</b>	<b>56</b>	<b>13</b>	<b>128</b>	<b>44</b>	<b>66</b>	<b>26</b>	<b>110</b>
Sitka spruce	1	1	37	2	1	1	31	2	3	2	23	5	1	3	20	4
Scots pine	9	39	35	47	9	23	28	31	15	19	29	34	9	25	64	34
Corsican pine	19	3	57	23	15	20	98	35	30	4	98	34	11	0	30	11
Norway spruce	2	3	80	5	3	2	51	5	3	2	56	5	4	1	26	5
Larches	1	12	38	13	1	9	41	10	3	8	43	11	2	8	43	10
Douglas fir	9	20	38	29	9	10	31	19	12	13	26	24	10	11	25	21
Lodgepole pine	0	0	-	0	0	0	35	0	0	0	35	0	0	0	82	0
Other conifers	4	29	42	33	4	8	29	12	7	8	19	15	6	18	27	24
<b>All broadleaves</b>	<b>17</b>	<b>164</b>	<b>8</b>	<b>182</b>	<b>25</b>	<b>189</b>	<b>7</b>	<b>214</b>	<b>34</b>	<b>229</b>	<b>11</b>	<b>262</b>	<b>15</b>	<b>210</b>	<b>7</b>	<b>225</b>
Oak	4	26	12	30	2	31	17	33	14	48	26	62	7	28	14	35
Beech	10	27	32	38	21	32	27	54	14	52	42	66	5	16	21	20
Sycamore	0	6	19	6	0	7	20	7	0	8	20	9	0	13	24	13
Ash	1	33	12	33	0	46	15	47	1	43	9	44	1	56	15	57
Birch	0	14	28	14	0	9	20	9	1	14	18	14	1	17	16	17
Sweet chestnut	0	10	50	10	0	4	30	4	0	5	28	5	0	11	63	11
Hazel	0	13	33	13	0	15	25	15	0	16	15	16	0	30	15	30
Hawthorn	0	3	23	3	0	5	17	5	0	5	17	5	0	4	18	4
Alder	0	4	51	4	0	2	40	2	0	4	37	4	0	3	35	3
Willow	0	6	21	6	0	8	30	8	0	8	21	8	0	7	21	7
Other broadleaves	1	25	18	26	1	35	17	36	3	26	12	30	1	27	14	28
<b>All species</b>	<b>63</b>	<b>270</b>	<b>8</b>	<b>333</b>	<b>67</b>	<b>261</b>	<b>9</b>	<b>328</b>	<b>105</b>	<b>284</b>	<b>9</b>	<b>389</b>	<b>59</b>	<b>276</b>	<b>9</b>	<b>335</b>



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**Table 13 (cont'd)** 50-year forecast of timber availability by time period and principal species – unrestricted biological potential for Private sector hardwoods

Principal species	2052–56			2057–61			Total volume (000 m <sup>3</sup> obs)	
	FC	Private sector	Total	FC	Private sector	Total		
	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)		
<b>All conifers</b>	<b>42</b>	<b>56</b>	<b>11</b>	<b>98</b>	<b>54</b>	<b>59</b>	<b>10</b>	<b>113</b>
Sitka spruce	1	4	15	5	1	4	15	5
Scots pine	10	9	22	19	13	11	20	24
Corsican pine	12	0	32	13	12	0	32	12
Norway spruce	3	3	35	6	5	4	30	9
Larches	1	8	41	9	2	8	37	10
Douglas fir	9	13	24	22	12	13	24	24
Lodgepole pine	0	0	82	0	1	0	82	1
Other conifers	5	19	21	24	8	19	20	27
<b>All broadleaves</b>	<b>19</b>	<b>234</b>	<b>7</b>	<b>253</b>	<b>23</b>	<b>229</b>	<b>10</b>	<b>252</b>
Oak	6	26	17	32	5	41	28	46
Beech	10	34	36	44	15	31	32	46
Sycamore	0	8	24	8	0	5	26	6
Ash	1	80	14	81	1	31	12	31
Birch	0	11	16	11	1	12	17	13
Sweet chestnut	0	7	45	7	1	25	55	25
Hazel	0	21	16	21	0	19	18	19
Hawthorn	0	6	19	6	0	8	33	8
Alder	0	3	32	3	0	3	30	3
Willow	0	10	26	10	0	21	31	21
Other broadleaves	1	27	14	28	1	33	20	34
<b>All species</b>	<b>62</b>	<b>289</b>	<b>6</b>	<b>350</b>	<b>77</b>	<b>288</b>	<b>8</b>	<b>365</b>

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**Table 14** 50-year forecast of standing volume; annual average volumes within periods – unrestricted biological potential for Private sector hardwoods

Forecast period	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>All conifers</b>				
2013–16	2,043	3,009	9	<b>5,052</b>
2017–21	2,065	2,626	10	<b>4,691</b>
2022–26	2,109	2,191	12	<b>4,300</b>
2027–31	2,166	1,837	13	<b>4,003</b>
2032–36	2,220	1,480	15	<b>3,700</b>
2037–41	2,267	1,411	14	<b>3,678</b>
2042–46	2,227	1,336	13	<b>3,563</b>
2047–51	2,183	1,322	12	<b>3,505</b>
2052–56	2,204	1,442	11	<b>3,646</b>
2057–61	2,178	1,571	10	<b>3,749</b>
<b>All broadleaves</b>				
2013–16	3,055	8,235	5	<b>11,290</b>
2017–21	3,127	6,877	6	<b>10,003</b>
2022–26	3,179	5,980	7	<b>9,159</b>
2027–31	3,242	6,086	7	<b>9,328</b>
2032–36	3,304	6,371	6	<b>9,675</b>
2037–41	3,279	6,719	6	<b>9,998</b>
2042–46	3,295	6,853	6	<b>10,148</b>
2047–51	3,272	7,189	5	<b>10,461</b>
2052–56	3,302	7,298	5	<b>10,601</b>
2057–61	3,291	7,260	5	<b>10,550</b>
<b>All species</b>				
2013–16	5,098	11,239	4	<b>16,338</b>
2017–21	5,191	9,497	5	<b>14,688</b>
2022–26	5,288	8,171	6	<b>13,459</b>
2027–31	5,408	7,921	6	<b>13,329</b>
2032–36	5,524	7,851	6	<b>13,374</b>
2037–41	5,546	8,126	5	<b>13,672</b>
2042–46	5,522	8,183	5	<b>13,704</b>
2047–51	5,455	8,499	5	<b>13,954</b>
2052–56	5,507	8,725	5	<b>14,232</b>
2057–61	5,469	8,812	5	<b>14,280</b>

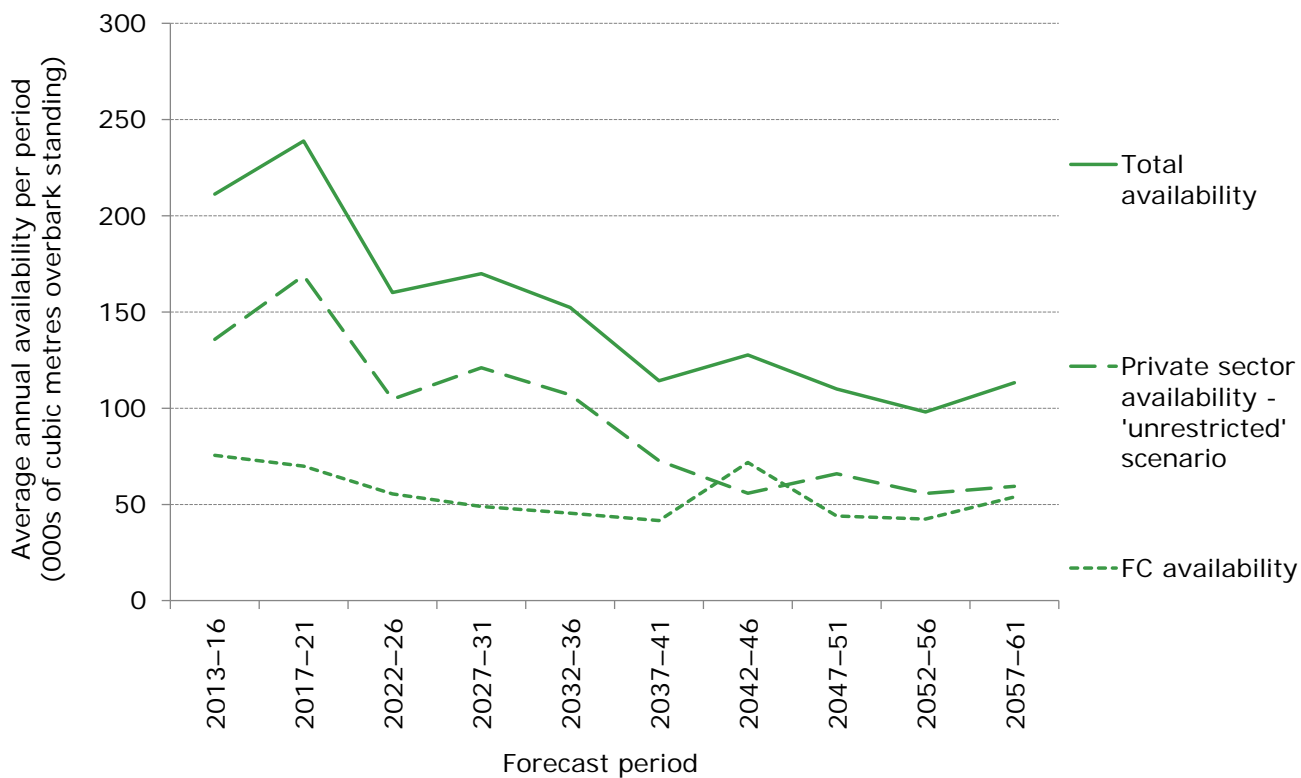
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**Table 15** 50-year forecast of net increment; annual average volumes within periods – unrestricted biological potential for Private sector hardwoods

Forecast period	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>All conifers</b>				
2013–16	70	68	10	<b>138</b>
2017–21	67	65	10	<b>132</b>
2022–26	61	51	11	<b>112</b>
2027–31	57	45	11	<b>103</b>
2032–36	54	44	11	<b>98</b>
2037–41	52	51	10	<b>103</b>
2042–46	49	60	9	<b>110</b>
2047–51	46	70	8	<b>117</b>
2052–56	46	79	8	<b>125</b>
2057–61	46	86	7	<b>132</b>
<b>All broadleaves</b>				
2013–16	24	146	7	<b>171</b>
2017–21	25	163	5	<b>188</b>
2022–26	24	178	4	<b>202</b>
2027–31	24	203	4	<b>228</b>
2032–36	25	231	3	<b>256</b>
2037–41	23	256	3	<b>279</b>
2042–46	23	266	3	<b>289</b>
2047–51	22	262	3	<b>285</b>
2052–56	22	243	4	<b>265</b>
2057–61	20	224	4	<b>245</b>
<b>All species</b>				
2013–16	94	214	6	<b>309</b>
2017–21	92	227	4	<b>319</b>
2022–26	85	229	4	<b>314</b>
2027–31	82	248	3	<b>330</b>
2032–36	79	274	3	<b>353</b>
2037–41	75	306	3	<b>381</b>
2042–46	72	325	3	<b>398</b>
2047–51	68	332	3	<b>400</b>
2052–56	68	321	3	<b>388</b>
2057–61	66	309	3	<b>375</b>

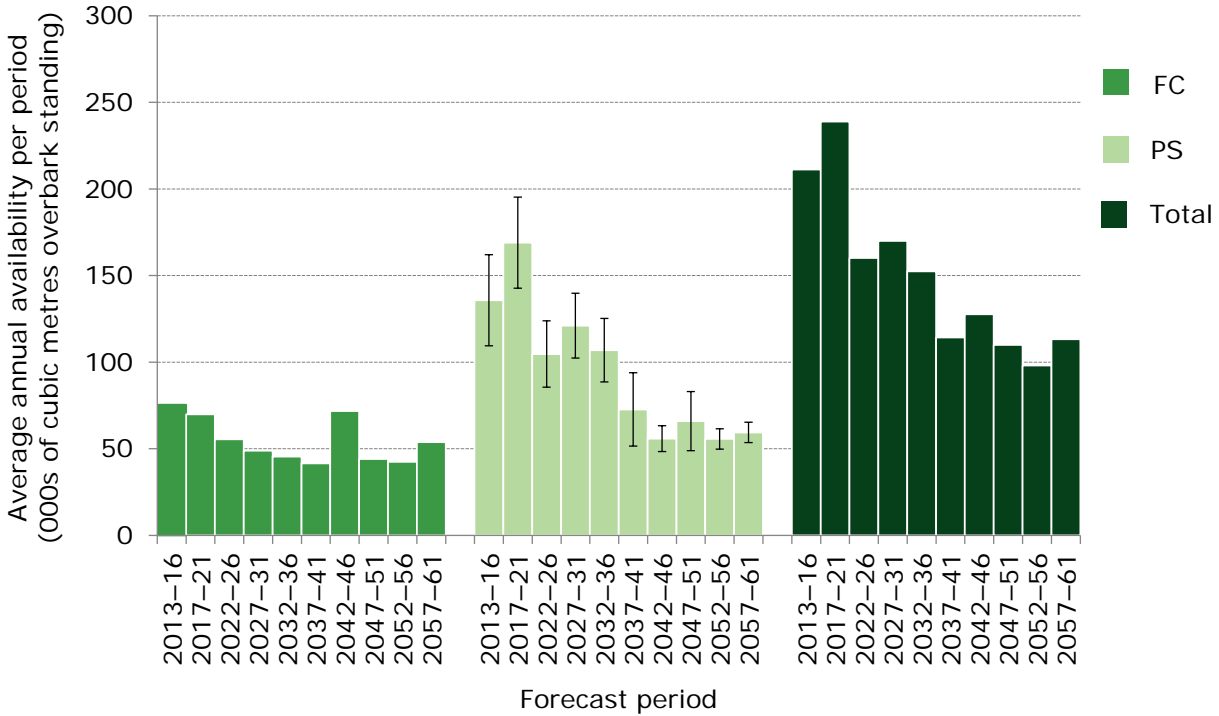
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**Figure 9** Overview of 50-year forecast of average annual softwood availability – unrestricted biological potential for Private sector hardwoods

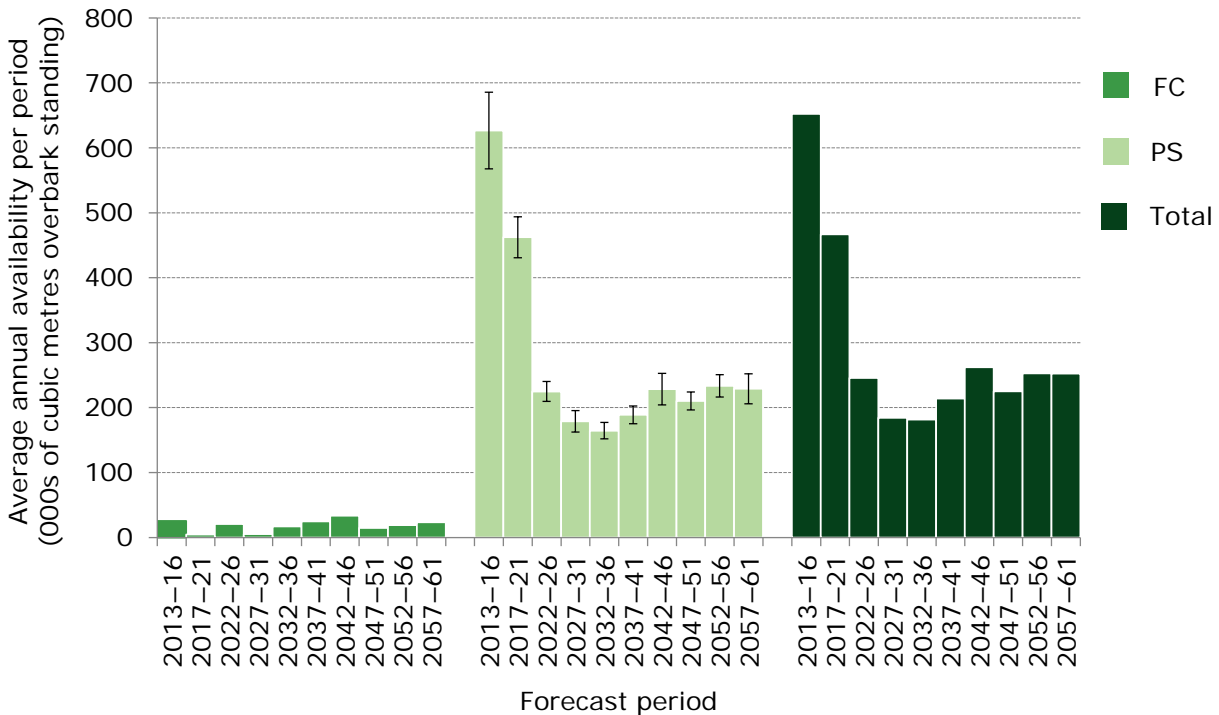


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**Figure 10** 50-year forecast comparison of average annual softwood availability—unrestricted biological potential for Private sector hardwoods

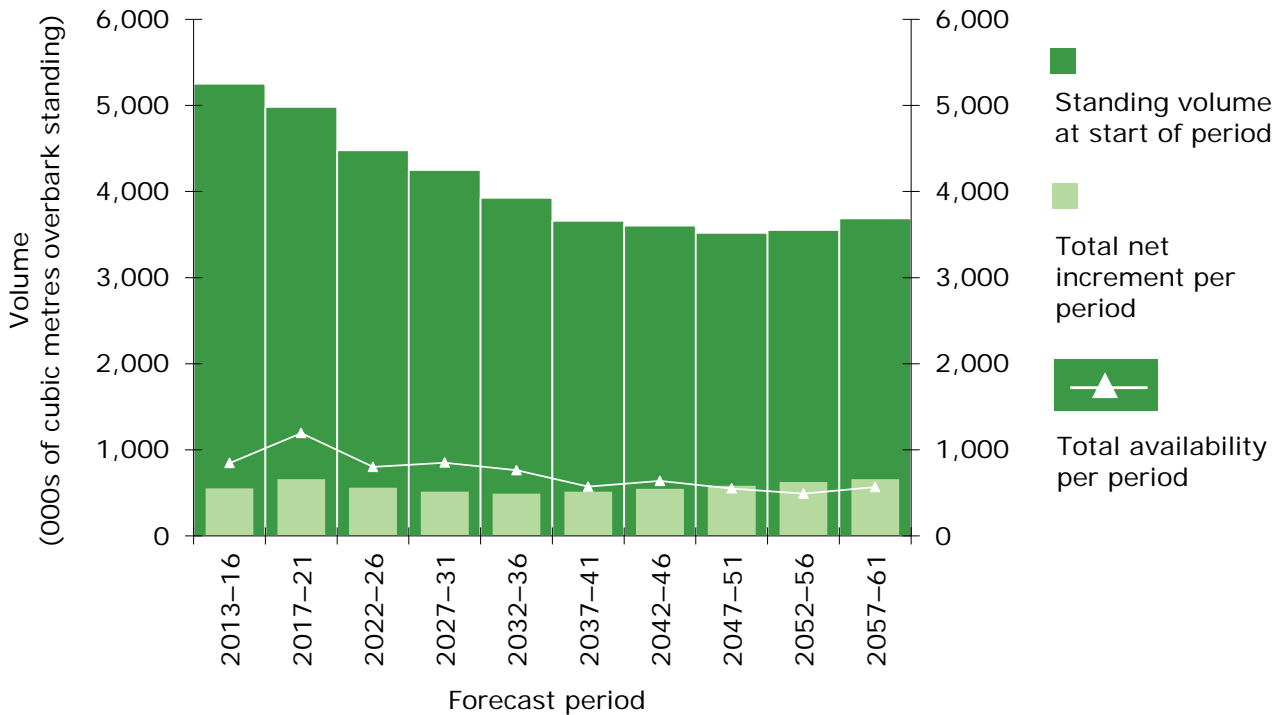


**Figure 11** 50-year forecast comparison of average annual hardwood availability—unrestricted biological potential for Private sector hardwoods

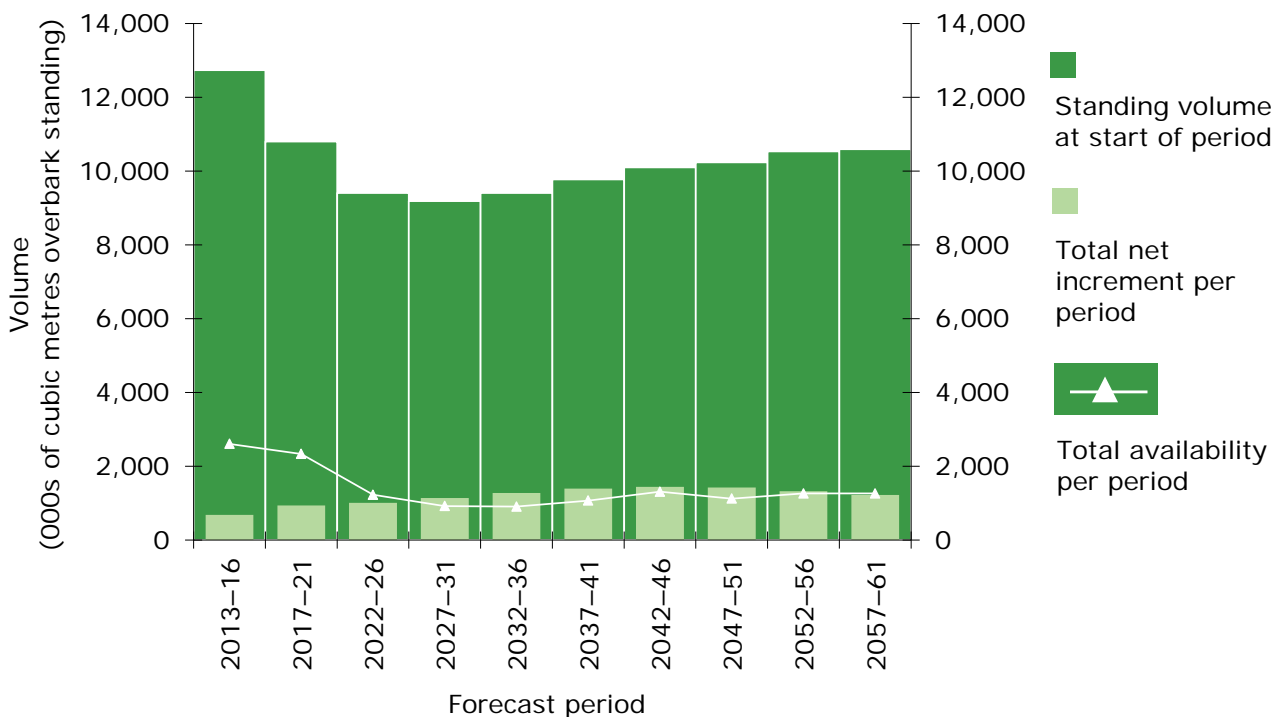


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**Figure 12** 50-year summary of softwood standing volume, increment and availability – unrestricted biological potential for Private sector hardwoods



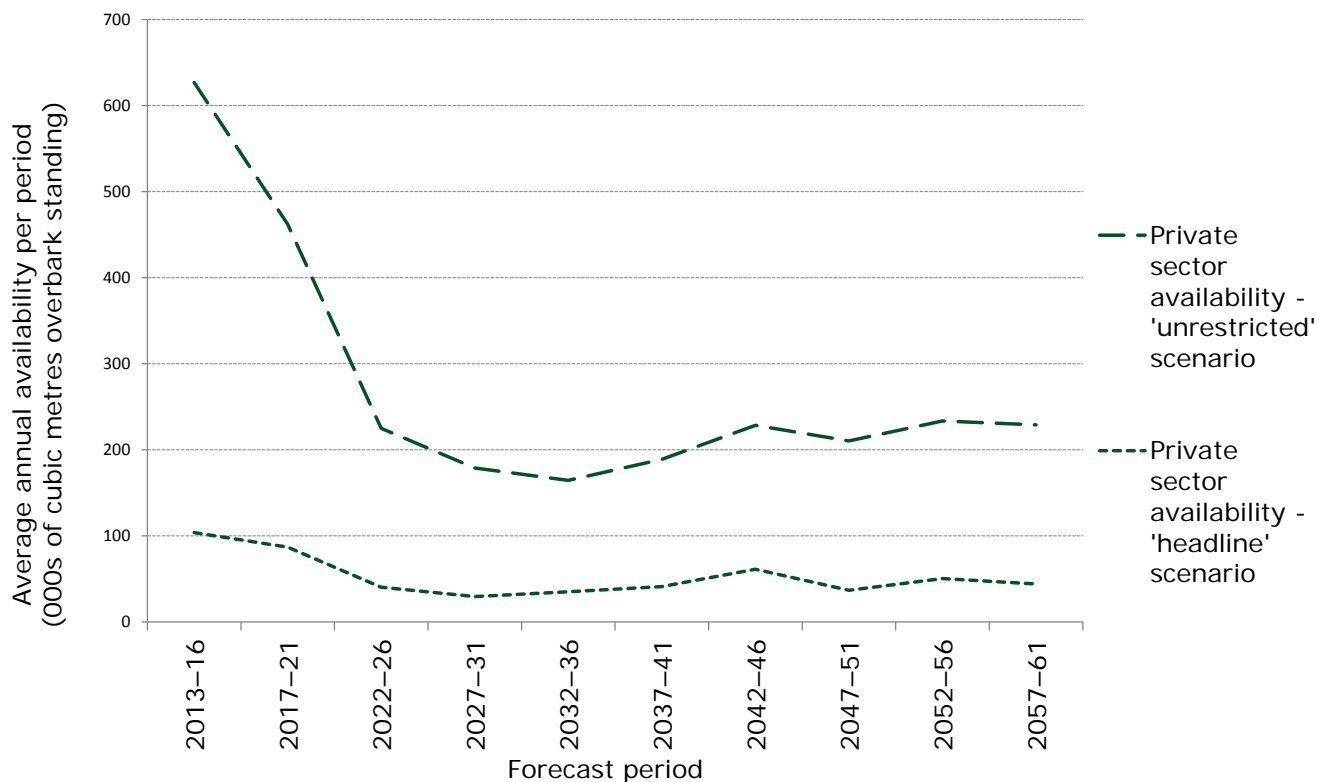
**Figure 13** 50-year summary of hardwood standing volume, increment and availability – unrestricted biological potential for Private sector hardwoods



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## Comparison of hardwood production between harvesting scenarios

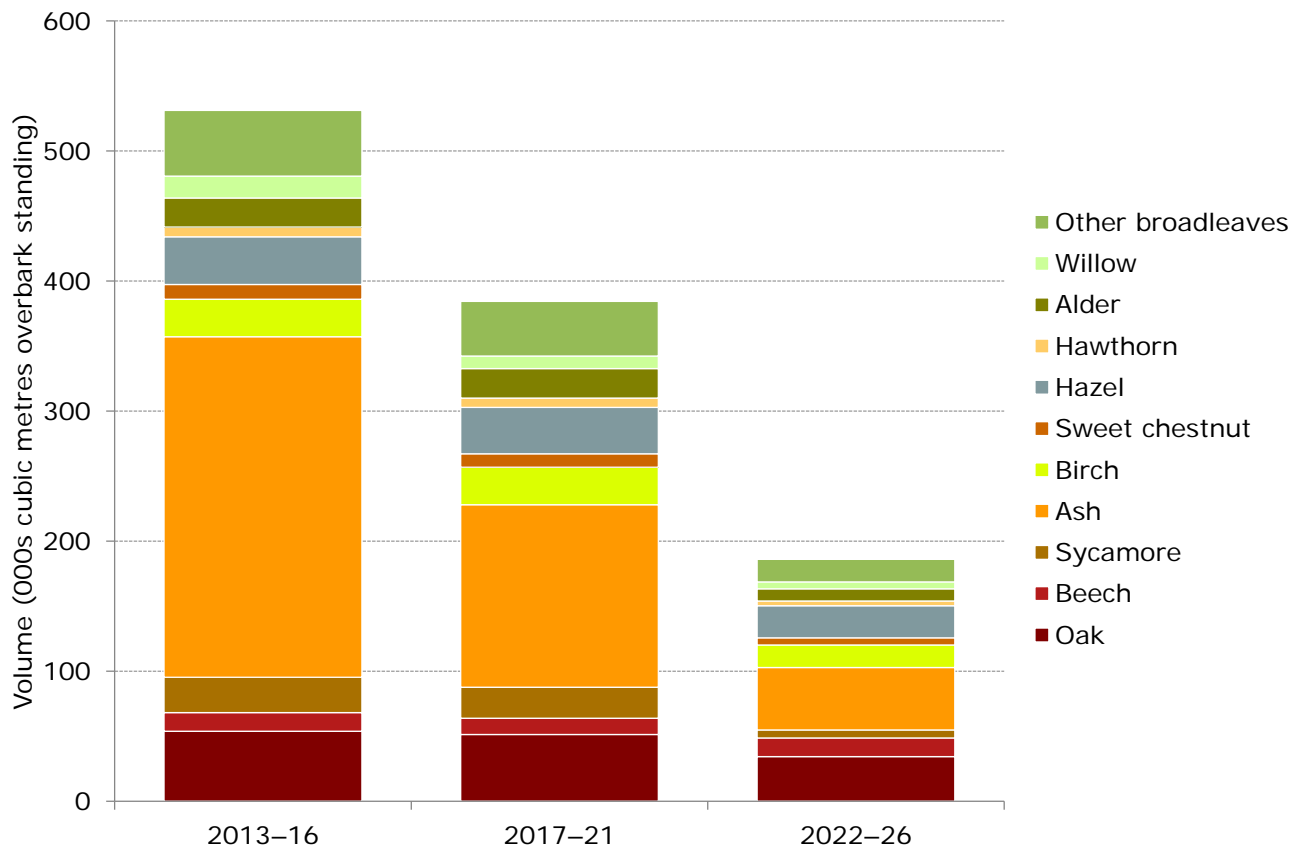
**Figure 14** 50-year forecast comparison of average annual hardwood timber availability





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**Figure 15** 15-year forecast comparison of average annual hardwood timber availability



**Table 16** 15-year forecast comparison of average annual timber availability

Principal species	2013-16			2017-21			2022-26		
	Headline	Unrestricted volume	Difference	Headline	Unrestricted volume	Difference	Headline	Unrestricted volume	Difference
	(000 m <sup>3</sup> obs)			(000 m <sup>3</sup> obs)			(000 m <sup>3</sup> obs)		
<b>All conifers</b>	<b>211</b>	<b>211</b>	<b>0</b>	<b>239</b>	<b>239</b>	<b>0</b>	<b>160</b>	<b>160</b>	<b>0</b>
Sitka spruce	1	1	0	2	2	0	0	0	0
Scots pine	35	35	0	43	43	0	26	26	0
Corsican pine	36	36	0	44	44	0	32	32	0
Norway spruce	8	8	0	16	16	0	4	4	0
Larches	26	26	0	38	38	0	17	17	0
Douglas fir	57	57	0	42	42	0	50	50	0
Lodgepole pine	1	1	0	0	0	0	4	4	0
Other conifers	49	49	0	53	53	0	26	26	0
<b>All broadleaves</b>	<b>129</b>	<b>652</b>	<b>523</b>	<b>92</b>	<b>467</b>	<b>375</b>	<b>61</b>	<b>246</b>	<b>184</b>
Oak	27	81	54	25	77	51	9	44	34
Beech	33	47	14	14	26	13	27	41	14
Sycamore	12	39	27	8	32	24	2	8	6
Ash	19	281	262	21	161	140	8	56	48
Birch	6	35	29	7	35	29	6	24	17
Sweet chestnut	2	13	11	1	12	10	1	7	5
Hazel	5	42	37	5	40	36	2	26	25
Hawthorn	0	8	7	0	8	7	0	4	4
Alder	0	22	22	0	23	23	0	9	9
Willow	0	17	17	0	10	10	0	6	5
Other broadleaves	24	75	51	10	52	42	4	22	17
<b>All species</b>	<b>340</b>	<b>863</b>	<b>523</b>	<b>331</b>	<b>706</b>	<b>375</b>	<b>220</b>	<b>404</b>	<b>184</b>

## NFI national reports and papers

The principal themes reported on for the 2011 woodland profile and future forecasts are:

- 2011 preliminary estimates of broadleaved species in British woodlands
- 2011 standing coniferous timber volume
- 25-year forecast of softwood availability
- 25-year forecast of coniferous standing volume and increment
- 2011 biomass in live woodland trees in Britain
- 2011 carbon in live woodland trees in Britain

The principal themes reported on for the 2012 woodland profile and future forecasts are:

- 50 year forecast of softwood availability
- 50 year forecast of hardwood availability

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

[www.forestry.gov.uk/inventory](http://www.forestry.gov.uk/inventory).

## Glossary

A glossary of terms is presented in the full suite of forecast reports which can be found at [www.forestry.gov.uk/forecast](http://www.forestry.gov.uk/forecast).

## Official Statistics

This is an Official Statistics publication. More information about Official Statistics and the UK Statistics Authority is available at [www.statisticsauthority.gov.uk](http://www.statisticsauthority.gov.uk)

National Forest Inventory Statistician: Alan Brewer