

# NFI provisional estimates for woodland within 50 miles of Marlborough

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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 50-mile radius of Marlborough. 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 50 miles of Marlborough. 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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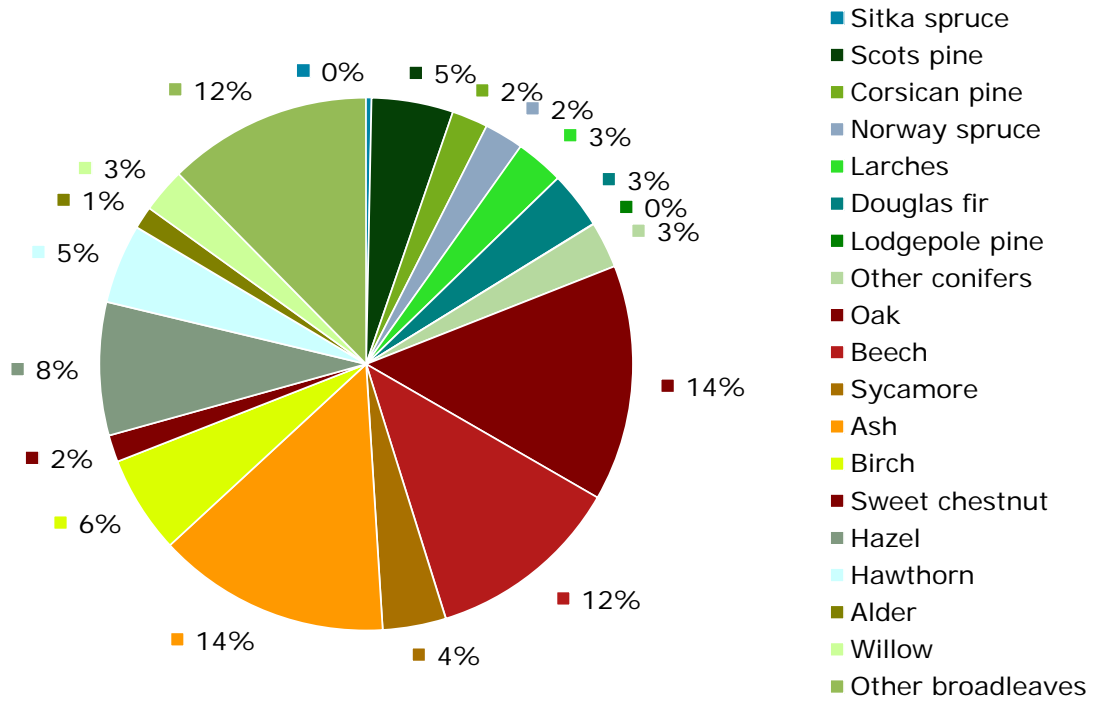
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(**Figures 9–13** and **Tables 13–15**). **Figures 14–15** and **Table 16** compare the hardwood production under the two scenarios.

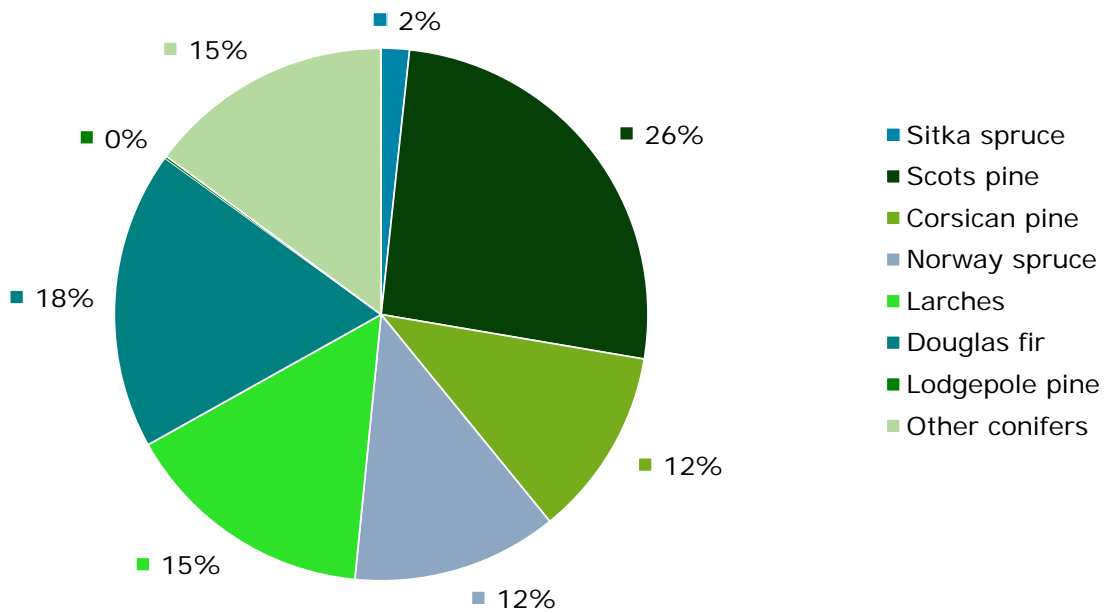
The values in the tables have been independently rounded, so may not add to the totals shown. In some breakdowns of Private sector estimates, the estimates in the body of the table may not sum to the quoted total because each individual value, including the total, has been independently generated by 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	0.3	0.5	39	<b>0.8</b>
Scots pine	3.1	9.4	10	<b>12.4</b>
Corsican pine	3.8	1.6	22	<b>5.5</b>
Norway spruce	1.8	4.1	13	<b>5.9</b>
Larches	1.9	5.4	11	<b>7.3</b>
Douglas fir	3.7	5.0	13	<b>8.7</b>
Lodgepole pine	0.0	0.0	108	<b>0.1</b>
Other conifers	1.3	5.8	11	<b>7.1</b>
<b>All conifers</b>	<b>16.0</b>	<b>31.9</b>	<b>4</b>	<b>47.9</b>
<b>Broadleaves</b>				
Oak	8.9	27.1	5	<b>35.9</b>
Beech	7.0	22.7	7	<b>29.8</b>
Sycamore	0.2	9.5	9	<b>9.6</b>
Ash	1.0	34.4	4	<b>35.5</b>
Birch	1.2	13.7	7	<b>14.9</b>
Sweet chestnut	0.5	3.6	15	<b>4.1</b>
Hazel	0.1	20.1	6	<b>20.3</b>
Hawthorn	0.0	12.1	8	<b>12.1</b>
Alder	0.2	3.3	13	<b>3.4</b>
Willow	0.0	6.7	11	<b>6.7</b>
Other broadleaves	3.1	28.0	5	<b>31.1</b>
<b>All broadleaves</b>	<b>22.2</b>	<b>181.4</b>	<b>1</b>	<b>203.6</b>
<b>All species</b>				
<b>All species</b>	<b>38.1</b>	<b>213.3</b>	<b>1</b>	<b>251.4</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	0.9	0.7	31	<b>1.7</b>
11–20 years	1.5	1.1	26	<b>2.6</b>
21–40 years	3.2	7.7	10	<b>10.9</b>
41–60 years	7.0	16.3	7	<b>23.3</b>
61–80 years	2.2	4.3	15	<b>6.5</b>
81–100 years	0.8	1.3	28	<b>2.1</b>
100+ years	0.4	0.5	35	<b>0.8</b>
<b>Total</b>	<b>16.0</b>	<b>31.9</b>	<b>4</b>	<b>47.9</b>
<b>All broadleaves</b>				
0–10 years	0.7	21.9	6	<b>22.6</b>
11–20 years	0.6	28.1	6	<b>28.7</b>
21–40 years	1.3	44.8	4	<b>46.1</b>
41–60 years	4.5	25.7	5	<b>30.2</b>
61–80 years	4.7	22.6	6	<b>27.3</b>
81–100 years	1.6	23.1	6	<b>24.7</b>
100+ years	8.7	15.2	7	<b>23.9</b>
<b>Total</b>	<b>22.2</b>	<b>181.4</b>	<b>1</b>	<b>203.6</b>
<b>All species</b>				
0–10 years	1.6	22.7	6	<b>24.3</b>
11–20 years	2.1	29.2	6	<b>31.3</b>
21–40 years	4.5	52.6	4	<b>57.1</b>
41–60 years	11.5	42.1	4	<b>53.6</b>
61–80 years	6.9	26.9	6	<b>33.8</b>
81–100 years	2.4	24.4	6	<b>26.8</b>
100+ years	9.1	15.5	7	<b>24.6</b>
<b>Total</b>	<b>38.1</b>	<b>213.3</b>	<b>1</b>	<b>251.4</b>

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

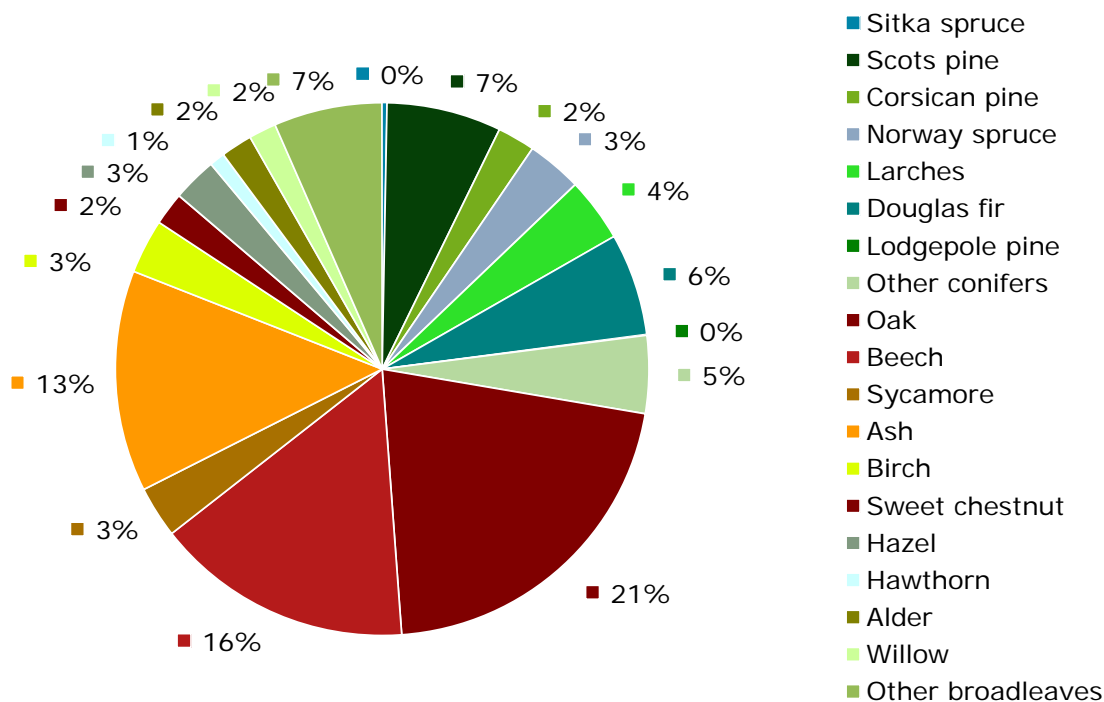
Mean stand DBH	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>All conifers</b>				
0–7 cm	1.1	0.9	28	2.0
7–10 cm	0.5	0.9	27	1.4
10–15 cm	1.5	1.8	20	3.4
15–20 cm	1.2	2.6	17	3.7
20–30 cm	3.1	8.2	10	11.3
30–40 cm	4.1	7.6	10	11.7
40–60 cm	3.8	8.1	10	11.9
60–80 cm	0.5	1.1	24	1.6
80+ cm	0.2	0.7	41	0.9
<b>Total</b>	<b>16.0</b>	<b>31.9</b>	<b>4</b>	<b>47.9</b>
<b>All broadleaves</b>				
0–7 cm	1.0	28.5	6	29.5
7–10 cm	1.5	33.4	5	34.8
10–15 cm	1.8	22.2	5	23.9
15–20 cm	2.2	17.0	6	19.2
20–30 cm	7.0	24.7	5	31.7
30–40 cm	5.0	17.3	6	22.3
40–60 cm	2.8	23.8	6	26.7
60–80 cm	0.7	10.2	8	10.9
80+ cm	0.2	4.2	14	4.4
<b>Total</b>	<b>22.2</b>	<b>181.4</b>	<b>1</b>	<b>203.6</b>
<b>All species</b>				
0–7 cm	2.1	29.4	5	31.6
7–10 cm	2.0	34.3	4	36.3
10–15 cm	3.3	24.1	5	27.4
15–20 cm	3.4	19.7	6	23.0
20–30 cm	10.0	33.0	4	43.0
30–40 cm	9.0	24.9	5	34.0
40–60 cm	6.6	31.8	5	38.4
60–80 cm	1.3	11.2	8	12.5
80+ cm	0.4	5.0	13	5.3
<b>Total</b>	<b>38.1</b>	<b>213.3</b>	<b>1</b>	<b>251.4</b>

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

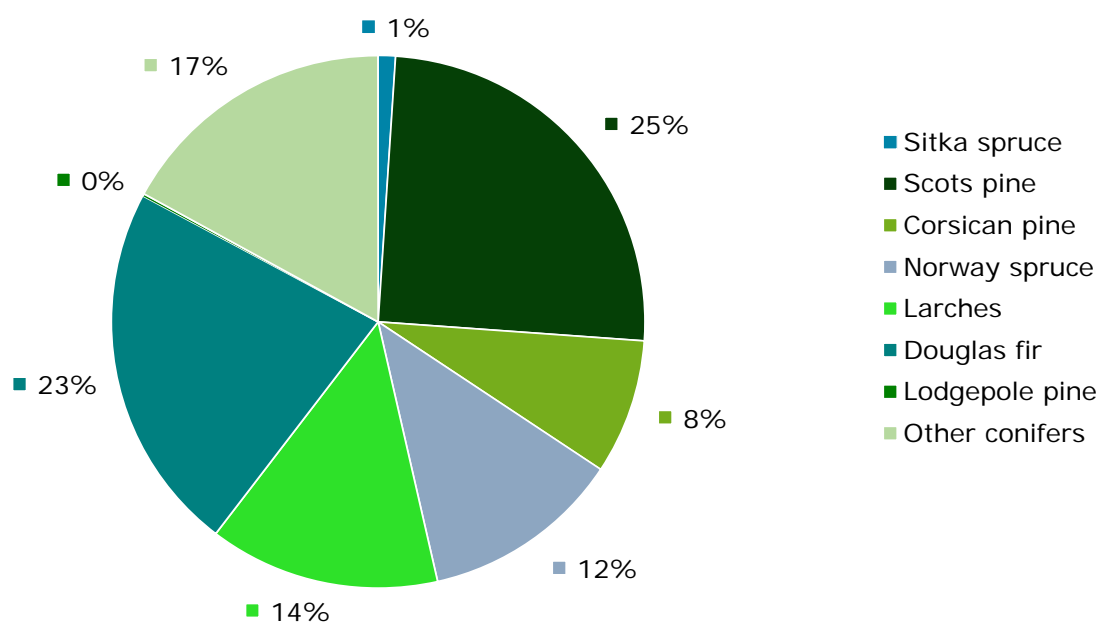
Clearfelled area	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
	0.9	1.6	31	2.5

## 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	68	118	26	<b>186</b>
Scots pine	911	3,545	11	<b>4,456</b>
Corsican pine	847	609	23	<b>1,456</b>
Norway spruce	545	1,603	14	<b>2,148</b>
Larches	409	2,071	12	<b>2,480</b>
Douglas fir	1,125	2,859	16	<b>3,984</b>
Lodgepole pine	11	15	108	<b>26</b>
Other conifers	502	2,521	17	<b>3,024</b>
<b>All conifers</b>	<b>4,418</b>	<b>13,365</b>	<b>5</b>	<b>17,783</b>
<b>Broadleaves</b>				
Oak	2,280	11,289	7	<b>13,569</b>
Beech	1,846	8,162	8	<b>10,008</b>
Sycamore	25	1,969	13	<b>1,995</b>
Ash	152	8,465	6	<b>8,616</b>
Birch	131	1,982	9	<b>2,113</b>
Sweet chestnut	74	1,205	16	<b>1,279</b>
Hazel	14	1,704	9	<b>1,718</b>
Hawthorn	0	596	12	<b>596</b>
Alder	29	1,190	18	<b>1,218</b>
Willow	0	1,071	16	<b>1,071</b>
Other broadleaves	449	3,761	10	<b>4,210</b>
<b>All broadleaves</b>	<b>5,000</b>	<b>41,350</b>	<b>3</b>	<b>46,350</b>
<b>All species</b>				
<b>All species</b>	<b>9,419</b>	<b>54,728</b>	<b>2</b>	<b>64,147</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	1	0	60	<b>1</b>
11–20 years	80	63	29	<b>143</b>
21–40 years	624	2,242	11	<b>2,866</b>
41–60 years	2,345	6,922	7	<b>9,267</b>
61–80 years	836	2,762	18	<b>3,597</b>
81–100 years	339	1,100	37	<b>1,439</b>
100+ years	193	276	44	<b>469</b>
<b>Total</b>	<b>4,418</b>	<b>13,365</b>	<b>5</b>	<b>17,783</b>
<b>All broadleaves</b>				
0–10 years	0	58	30	<b>58</b>
11–20 years	9	1,223	9	<b>1,232</b>
21–40 years	88	6,176	5	<b>6,264</b>
41–60 years	722	7,045	7	<b>7,767</b>
61–80 years	944	7,990	7	<b>8,934</b>
81–100 years	357	10,179	7	<b>10,536</b>
100+ years	2,880	8,679	9	<b>11,559</b>
<b>Total</b>	<b>5,000</b>	<b>41,350</b>	<b>3</b>	<b>46,350</b>
<b>All species</b>				
0–10 years	1	58	30	<b>59</b>
11–20 years	89	1,288	9	<b>1,377</b>
21–40 years	712	8,404	5	<b>9,116</b>
41–60 years	3,067	13,987	5	<b>17,054</b>
61–80 years	1,780	10,758	7	<b>12,538</b>
81–100 years	696	11,301	7	<b>11,997</b>
100+ years	3,073	8,932	9	<b>12,006</b>
<b>Total</b>	<b>9,419</b>	<b>54,728</b>	<b>2</b>	<b>64,147</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	63	<b>1</b>
7–10 cm	13	35	29	<b>47</b>
10–15 cm	156	203	22	<b>359</b>
15–20 cm	240	580	16	<b>820</b>
20–30 cm	959	2,963	11	<b>3,922</b>
30–40 cm	1,398	3,207	9	<b>4,605</b>
40–60 cm	1,334	4,993	11	<b>6,327</b>
60–80 cm	233	747	21	<b>980</b>
80+ cm	85	637	58	<b>722</b>
<b>Total</b>	<b>4,418</b>	<b>13,365</b>	<b>5</b>	<b>17,783</b>
<b>All broadleaves</b>				
0–7 cm	5	143	12	<b>149</b>
7–10 cm	82	1,273	5	<b>1,355</b>
10–15 cm	269	2,313	6	<b>2,582</b>
15–20 cm	443	3,108	7	<b>3,550</b>
20–30 cm	2,009	6,690	5	<b>8,699</b>
30–40 cm	1,363	6,292	7	<b>7,655</b>
40–60 cm	634	10,606	6	<b>11,240</b>
60–80 cm	157	7,051	9	<b>7,208</b>
80+ cm	38	3,874	16	<b>3,912</b>
<b>Total</b>	<b>5,000</b>	<b>41,350</b>	<b>3</b>	<b>46,350</b>
<b>All species</b>				
0–7 cm	6	143	12	<b>149</b>
7–10 cm	95	1,311	5	<b>1,405</b>
10–15 cm	425	2,522	6	<b>2,947</b>
15–20 cm	683	3,705	6	<b>4,388</b>
20–30 cm	2,969	9,649	5	<b>12,618</b>
30–40 cm	2,761	9,536	6	<b>12,296</b>
40–60 cm	1,968	15,562	5	<b>17,529</b>
60–80 cm	390	7,766	8	<b>8,156</b>
80+ cm	123	4,535	16	<b>4,658</b>
<b>Total</b>	<b>9,419</b>	<b>54,728</b>	<b>2</b>	<b>64,147</b>

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## 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	43	72	26	<b>115</b>
Scots pine	630	2,359	11	<b>2,989</b>
Corsican pine	512	342	23	<b>853</b>
Norway spruce	298	836	14	<b>1,134</b>
Larches	258	1,236	11	<b>1,494</b>
Douglas fir	752	1,761	16	<b>2,513</b>
Lodgepole pine	7	10	108	<b>17</b>
Other conifers	274	1,378	16	<b>1,652</b>
<b>All conifers</b>	<b>2,774</b>	<b>8,007</b>	<b>5</b>	<b>10,781</b>
<b>Broadleaves</b>				
Oak	2,029	9,386	7	<b>11,415</b>
Beech	1,748	7,039	8	<b>8,787</b>
Sycamore	23	1,662	13	<b>1,685</b>
Ash	141	6,951	6	<b>7,092</b>
Birch	127	1,813	9	<b>1,941</b>
Sweet chestnut	77	915	16	<b>992</b>
Hazel	13	1,653	8	<b>1,666</b>
Hawthorn	0	718	12	<b>718</b>
Alder	24	870	17	<b>894</b>
Willow	0	1,080	16	<b>1,080</b>
Other broadleaves	406	3,188	8	<b>3,594</b>
<b>All broadleaves</b>	<b>4,588</b>	<b>35,243</b>	<b>2</b>	<b>39,831</b>
<b>All species</b>				
<b>All species</b>	<b>7,361</b>	<b>43,280</b>	<b>2</b>	<b>50,642</b>

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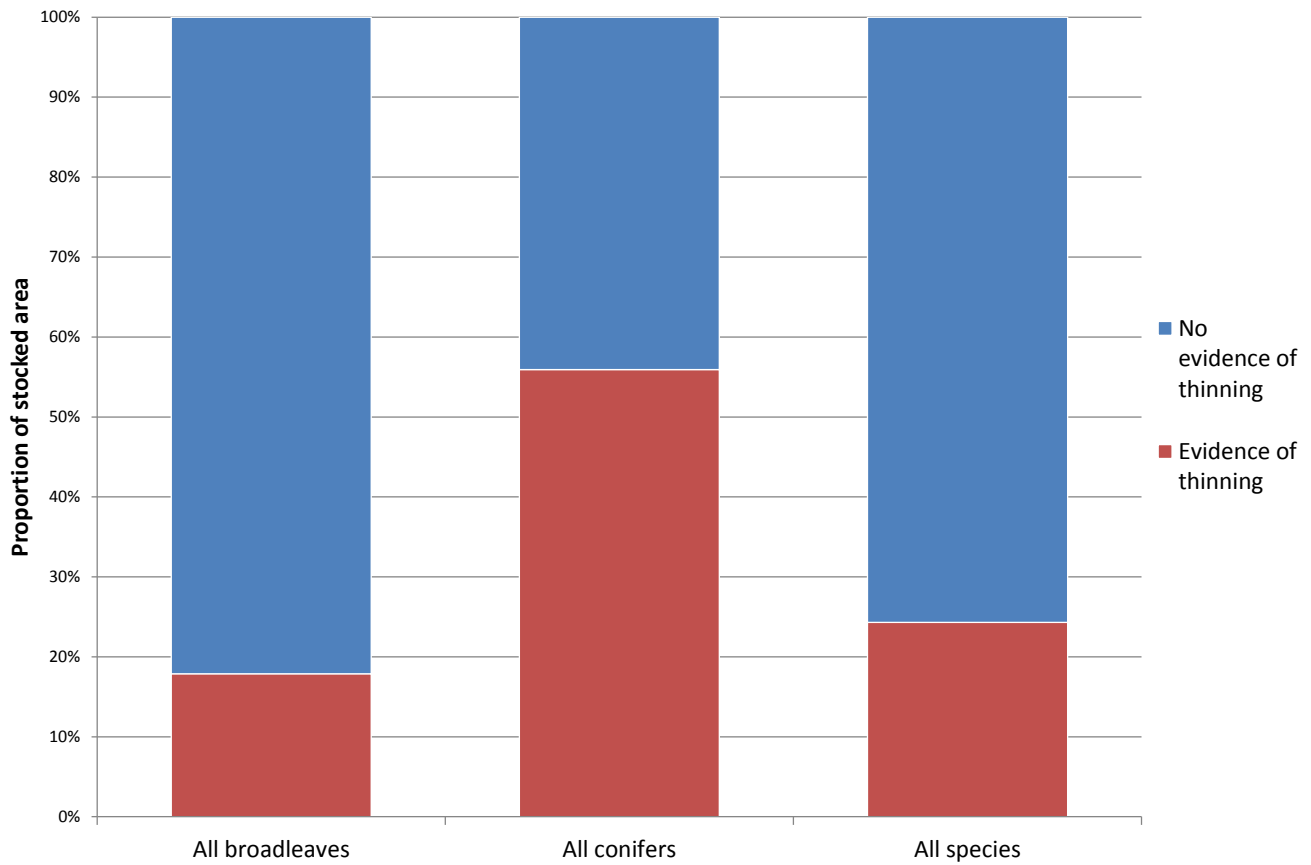
**Table 9** Total carbon stocks in principal tree species at 31 March 2012

Principal species	FC	Private sector		Total
	carbon (000 t)	carbon (000 t)	SE%	carbon (000 t)
<b>Conifers</b>				
Sitka spruce	21	36	26	<b>57</b>
Scots pine	315	1,180	11	<b>1,495</b>
Corsican pine	256	171	23	<b>427</b>
Norway spruce	149	418	14	<b>567</b>
Larches	129	618	11	<b>747</b>
Douglas fir	376	881	16	<b>1,257</b>
Lodgepole pine	4	5	108	<b>8</b>
Other conifers	137	689	16	<b>826</b>
<b>All conifers</b>	<b>1,387</b>	<b>4,004</b>	<b>5</b>	<b>5,391</b>
<b>Broadleaves</b>				
Oak	1,014	4,693	7	<b>5,708</b>
Beech	874	3,520	8	<b>4,394</b>
Sycamore	12	831	13	<b>842</b>
Ash	71	3,475	6	<b>3,546</b>
Birch	64	907	9	<b>970</b>
Sweet chestnut	39	457	16	<b>496</b>
Hazel	7	827	8	<b>833</b>
Hawthorn	0	359	12	<b>359</b>
Alder	12	435	17	<b>447</b>
Willow	0	540	16	<b>540</b>
Other broadleaves	203	1,594	8	<b>1,797</b>
<b>All broadleaves</b>	<b>2,294</b>	<b>17,621</b>	<b>2</b>	<b>19,915</b>
<b>All species</b>				
<b>All species</b>	<b>3,681</b>	<b>21,640</b>	<b>2</b>	<b>25,321</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>183</b>	<b>630</b>	<b>10</b>	<b>813</b>	<b>165</b>	<b>662</b>	<b>8</b>	<b>827</b>	<b>142</b>	<b>580</b>	<b>7</b>	<b>722</b>	<b>135</b>	<b>574</b>	<b>9</b>	<b>708</b>
Sitka spruce	5	2	32	7	3	9	31	12	3	6	39	9	3	5	39	7
Scots pine	26	139	23	165	24	135	16	159	17	119	19	136	19	165	21	183
Corsican pine	42	45	32	87	39	48	35	88	38	18	27	56	27	22	36	49
Norway spruce	27	56	15	82	25	103	28	128	20	84	26	104	21	143	25	163
Larches	17	127	22	144	15	115	17	129	12	68	14	80	11	66	17	77
Douglas fir	44	163	24	207	37	135	20	171	35	175	14	210	40	70	24	109
Lodgepole pine	0	0	108	1	0	0	-	0	0	4	108	4	0	0	-	0
Other conifers	22	97	27	119	22	117	20	139	17	105	18	122	15	103	20	118
<b>All broadleaves</b>	<b>87</b>	<b>544</b>	<b>11</b>	<b>631</b>	<b>15</b>	<b>477</b>	<b>11</b>	<b>492</b>	<b>69</b>	<b>251</b>	<b>13</b>	<b>320</b>	<b>17</b>	<b>249</b>	<b>19</b>	<b>266</b>
Oak	26	64	23	90	3	88	29	91	20	56	37	76	5	36	24	41
Beech	43	131	27	174	7	154	20	161	35	82	23	117	6	128	34	134
Sycamore	1	63	37	64	0	30	37	31	1	9	28	10	0	5	21	5
Ash	4	160	18	164	1	117	15	118	3	49	22	52	1	21	25	23
Birch	2	32	24	34	1	37	22	37	2	20	19	22	1	10	32	11
Sweet chestnut	2	41	60	44	1	5	24	6	2	10	26	11	1	23	67	24
Hazel	0	6	61	6	0	7	51	7	0	5	23	5	0	3	16	3
Hawthorn	0	1	29	1	0	1	21	1	0	1	19	1	0	1	18	1
Alder	1	2	51	3	0	2	48	2	0	2	50	2	0	1	56	1
Willow	0	1	26	1	0	1	21	1	0	1	19	1	0	2	17	2
Other broadleaves	7	38	31	45	2	31	29	33	5	15	18	21	2	16	19	18
<b>All species</b>	<b>270</b>	<b>1,175</b>	<b>8</b>	<b>1,445</b>	<b>180</b>	<b>1,143</b>	<b>6</b>	<b>1,322</b>	<b>211</b>	<b>821</b>	<b>6</b>	<b>1,032</b>	<b>152</b>	<b>826</b>	<b>9</b>	<b>978</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>113</b>	<b>524</b>	<b>10</b>	<b>637</b>	<b>120</b>	<b>420</b>	<b>14</b>	<b>540</b>	<b>146</b>	<b>335</b>	<b>14</b>	<b>481</b>	<b>126</b>	<b>269</b>	<b>13</b>	<b>394</b>
Sitka spruce	4	9	26	13	4	9	20	12	6	15	30	21	5	11	14	16
Scots pine	12	226	19	238	18	154	26	172	20	90	28	110	15	70	36	85
Corsican pine	29	11	29	40	25	25	88	50	46	21	44	67	29	2	43	31
Norway spruce	15	78	28	93	17	65	27	81	11	74	37	85	14	38	32	52
Larches	11	58	23	70	11	35	17	46	17	25	17	42	16	37	29	53
Douglas fir	33	69	24	102	33	33	17	67	35	35	13	69	33	45	15	78
Lodgepole pine	0	0	-	0	0	0	29	0	0	0	29	0	0	0	47	0
Other conifers	9	72	19	81	12	99	33	111	11	76	35	87	14	66	20	81
<b>All broadleaves</b>	<b>61</b>	<b>194</b>	<b>14</b>	<b>254</b>	<b>55</b>	<b>190</b>	<b>11</b>	<b>245</b>	<b>115</b>	<b>279</b>	<b>12</b>	<b>394</b>	<b>45</b>	<b>307</b>	<b>15</b>	<b>352</b>
Oak	18	32	24	49	11	31	19	42	51	34	18	86	17	80	39	98
Beech	30	88	29	118	34	76	24	110	44	100	30	144	16	97	31	113
Sycamore	1	6	24	7	0	6	23	7	1	12	17	13	1	12	22	13
Ash	3	22	12	25	2	30	11	32	5	44	10	49	3	42	12	45
Birch	1	6	15	8	2	11	17	12	2	22	21	24	1	14	14	15
Sweet chestnut	2	14	43	16	1	4	27	5	2	16	41	19	1	10	52	12
Hazel	0	5	23	5	0	7	28	7	0	7	23	7	0	14	20	14
Hawthorn	0	2	14	2	0	3	12	3	0	3	11	3	0	3	11	3
Alder	0	1	31	1	0	1	30	1	0	2	31	3	0	1	35	2
Willow	0	2	16	2	0	3	27	3	0	4	32	4	0	2	23	2
Other broadleaves	5	15	10	19	5	17	10	21	8	31	21	40	4	28	25	32
<b>All species</b>	<b>174</b>	<b>719</b>	<b>8</b>	<b>893</b>	<b>175</b>	<b>604</b>	<b>10</b>	<b>779</b>	<b>261</b>	<b>603</b>	<b>9</b>	<b>864</b>	<b>171</b>	<b>576</b>	<b>10</b>	<b>747</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			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)		
<b>All conifers</b>	<b>113</b>	<b>286</b>	<b>14</b>	<b>400</b>	<b>127</b>	<b>260</b>	<b>8</b>	<b>387</b>
Sitka spruce	5	15	11	20	6	17	10	22
Scots pine	15	72	28	88	21	79	24	100
Corsican pine	23	1	40	24	21	1	45	22
Norway spruce	10	71	49	81	15	28	16	42
Larches	12	25	16	37	12	27	15	40
Douglas fir	37	45	11	82	36	50	11	86
Lodgepole pine	0	0	47	0	1	0	47	1
Other conifers	11	57	14	68	14	59	13	73
<b>All broadleaves</b>	<b>69</b>	<b>282</b>	<b>11</b>	<b>351</b>	<b>51</b>	<b>237</b>	<b>14</b>	<b>289</b>
Oak	26	43	32	69	15	34	29	49
Beech	32	104	24	136	25	103	28	128
Sycamore	1	10	21	11	0	6	27	6
Ash	3	54	13	56	2	39	25	41
Birch	2	15	15	16	2	14	16	16
Sweet chestnut	2	3	32	5	2	12	54	14
Hazel	0	6	18	6	0	6	18	6
Hawthorn	0	3	11	3	0	5	29	5
Alder	0	2	35	2	0	1	59	2
Willow	0	4	35	4	0	3	40	3
Other broadleaves	5	34	17	39	4	13	12	17
<b>All species</b>	<b>182</b>	<b>570</b>	<b>9</b>	<b>752</b>	<b>179</b>	<b>498</b>	<b>8</b>	<b>677</b>

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**Table 11** 50-year forecast of standing volume; average annual 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	4,358	12,549	5	<b>16,907</b>
2017–21	4,474	11,554	6	<b>16,028</b>
2022–26	4,595	10,007	6	<b>14,602</b>
2027–31	4,714	8,356	7	<b>13,070</b>
2032–36	4,843	6,799	8	<b>11,642</b>
2037–41	4,952	5,892	8	<b>10,844</b>
2042–46	4,991	5,306	8	<b>10,297</b>
2047–51	4,970	5,270	7	<b>10,240</b>
2052–56	5,043	5,549	7	<b>10,592</b>
2057–61	5,059	5,898	6	<b>10,957</b>
<b>All broadleaves</b>				
2013–16	4,936	41,953	2	<b>46,890</b>
2017–21	5,141	43,872	2	<b>49,012</b>
2022–26	5,285	47,057	2	<b>52,343</b>
2027–31	5,474	50,962	2	<b>56,436</b>
2032–36	5,644	54,839	2	<b>60,483</b>
2037–41	5,723	58,675	2	<b>64,398</b>
2042–46	5,716	61,841	2	<b>67,557</b>
2047–51	5,658	64,527	2	<b>70,185</b>
2052–56	5,731	67,059	2	<b>72,790</b>
2057–61	5,797	69,099	2	<b>74,896</b>
<b>All species</b>				
2013–16	9,294	54,505	2	<b>63,799</b>
2017–21	9,615	55,409	2	<b>65,024</b>
2022–26	9,880	57,073	2	<b>66,954</b>
2027–31	10,188	59,322	2	<b>69,510</b>
2032–36	10,487	61,627	2	<b>72,114</b>
2037–41	10,675	64,557	2	<b>75,232</b>
2042–46	10,707	67,191	2	<b>77,898</b>
2047–51	10,628	69,862	2	<b>80,490</b>
2052–56	10,774	72,674	2	<b>83,448</b>
2057–61	10,856	75,059	2	<b>85,914</b>

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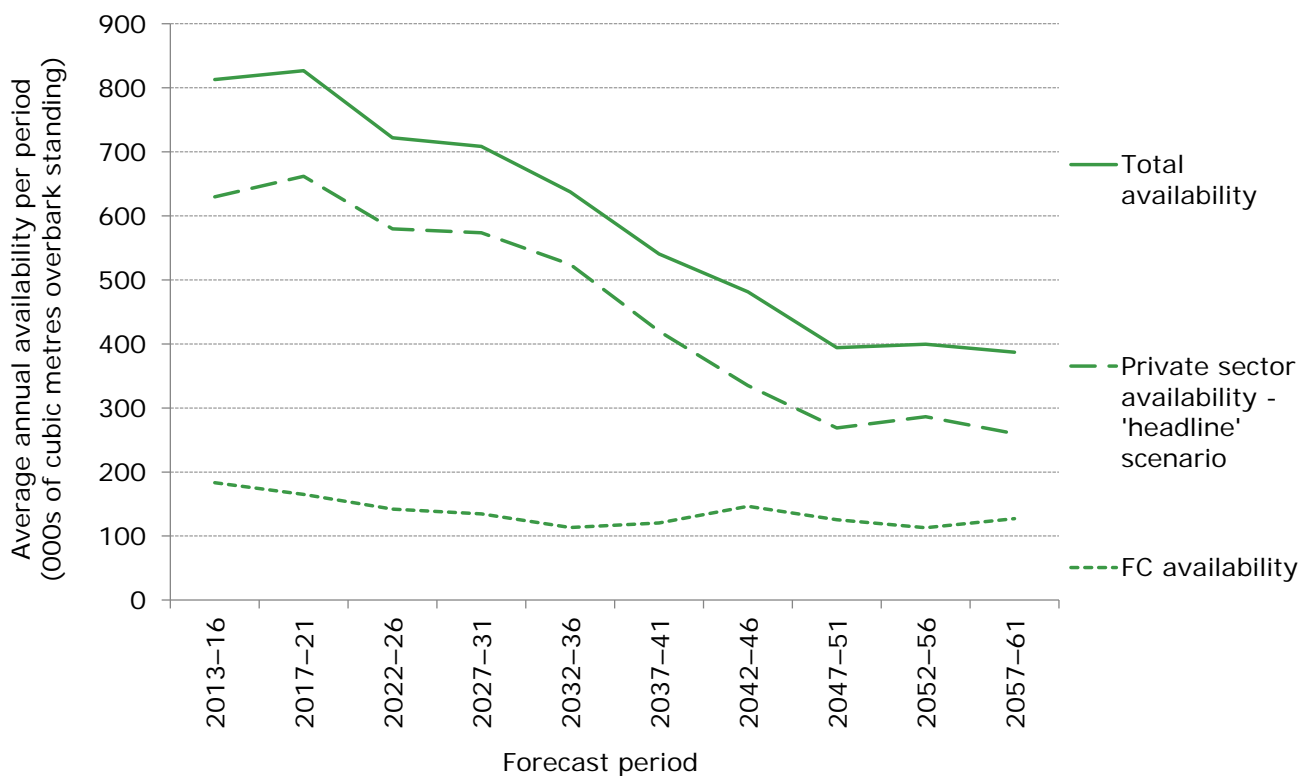
**Table 12** 50-year forecast of net increment; average annual volumes within periods

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	179	405	5	<b>583</b>
2017–21	176	367	5	<b>543</b>
2022–26	162	304	6	<b>465</b>
2027–31	152	263	6	<b>415</b>
2032–36	144	236	6	<b>380</b>
2037–41	139	244	6	<b>383</b>
2042–46	136	265	6	<b>401</b>
2047–51	131	301	5	<b>432</b>
2052–56	129	338	5	<b>466</b>
2057–61	129	368	4	<b>497</b>
<b>All broadleaves</b>				
2013–16	74	853	3	<b>927</b>
2017–21	75	946	2	<b>1,021</b>
2022–26	74	1,006	2	<b>1,080</b>
2027–31	76	1,013	2	<b>1,088</b>
2032–36	77	983	2	<b>1,060</b>
2037–41	76	939	2	<b>1,015</b>
2042–46	74	876	2	<b>950</b>
2047–51	72	805	2	<b>878</b>
2052–56	73	740	2	<b>813</b>
2057–61	73	678	2	<b>750</b>
<b>All species</b>				
2013–16	253	1,256	2	<b>1,509</b>
2017–21	251	1,312	2	<b>1,562</b>
2022–26	236	1,308	2	<b>1,544</b>
2027–31	228	1,274	2	<b>1,503</b>
2032–36	221	1,218	2	<b>1,439</b>
2037–41	214	1,181	2	<b>1,396</b>
2042–46	210	1,141	2	<b>1,351</b>
2047–51	203	1,107	2	<b>1,310</b>
2052–56	201	1,079	2	<b>1,280</b>
2057–61	202	1,046	2	<b>1,247</b>



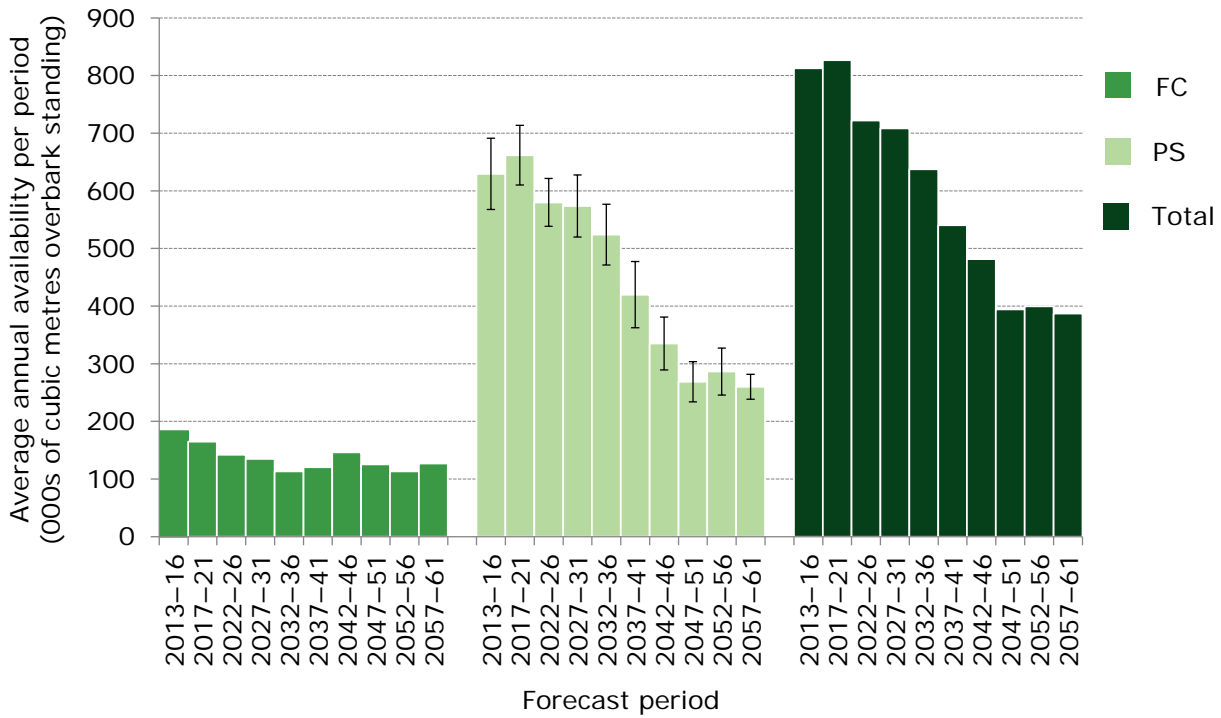
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**Figure 4** Overview of 50-year forecast of average annual softwood availability

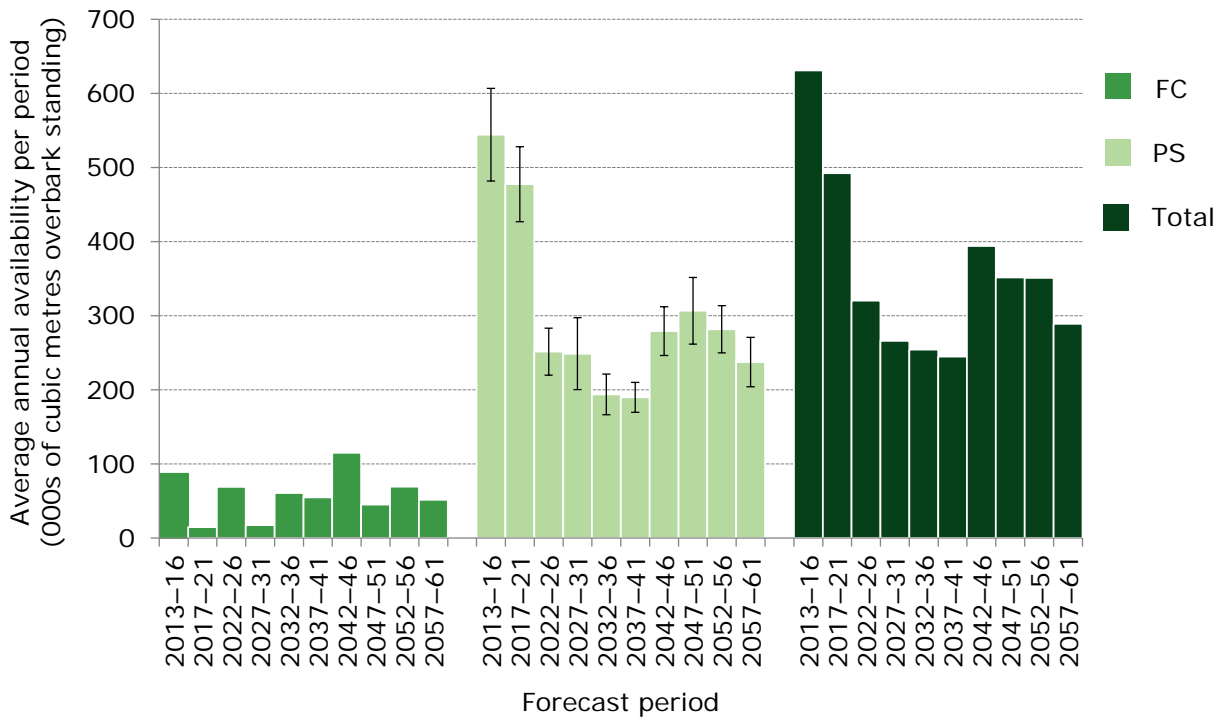


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**Figure 5** 50-year forecast of average annual softwood availability

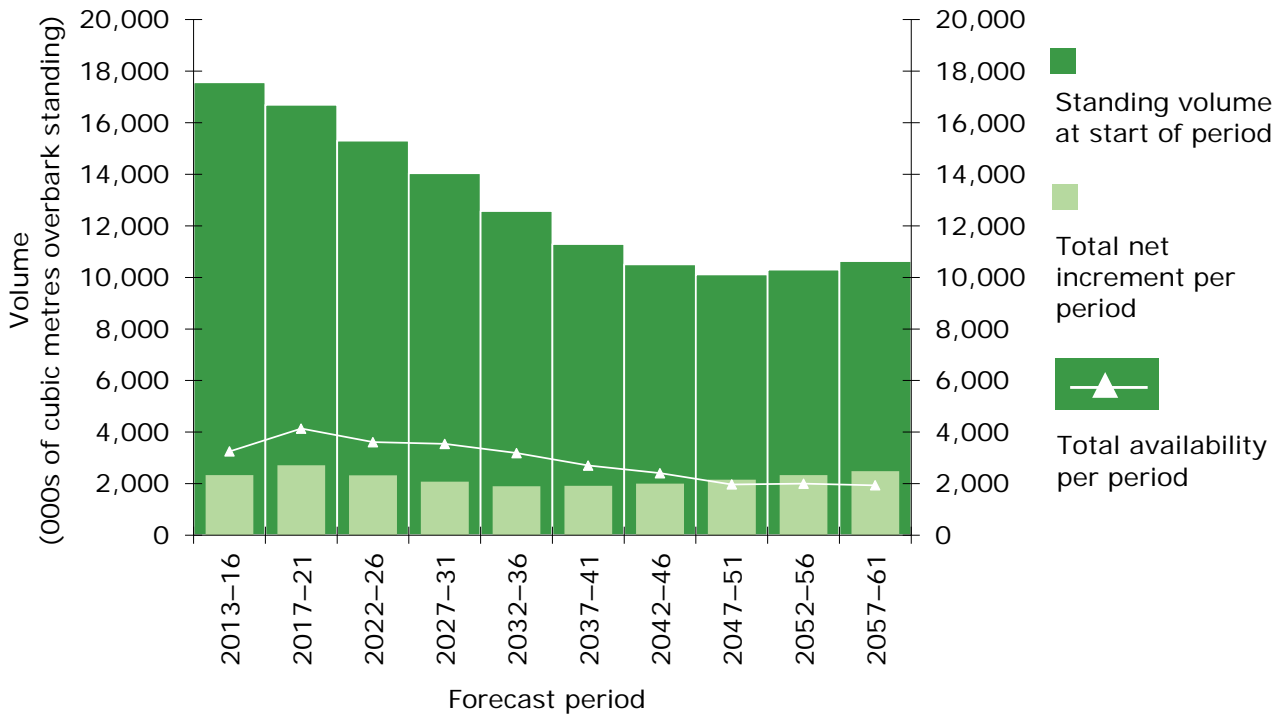


**Figure 6** 50-year forecast of average annual hardwood availability

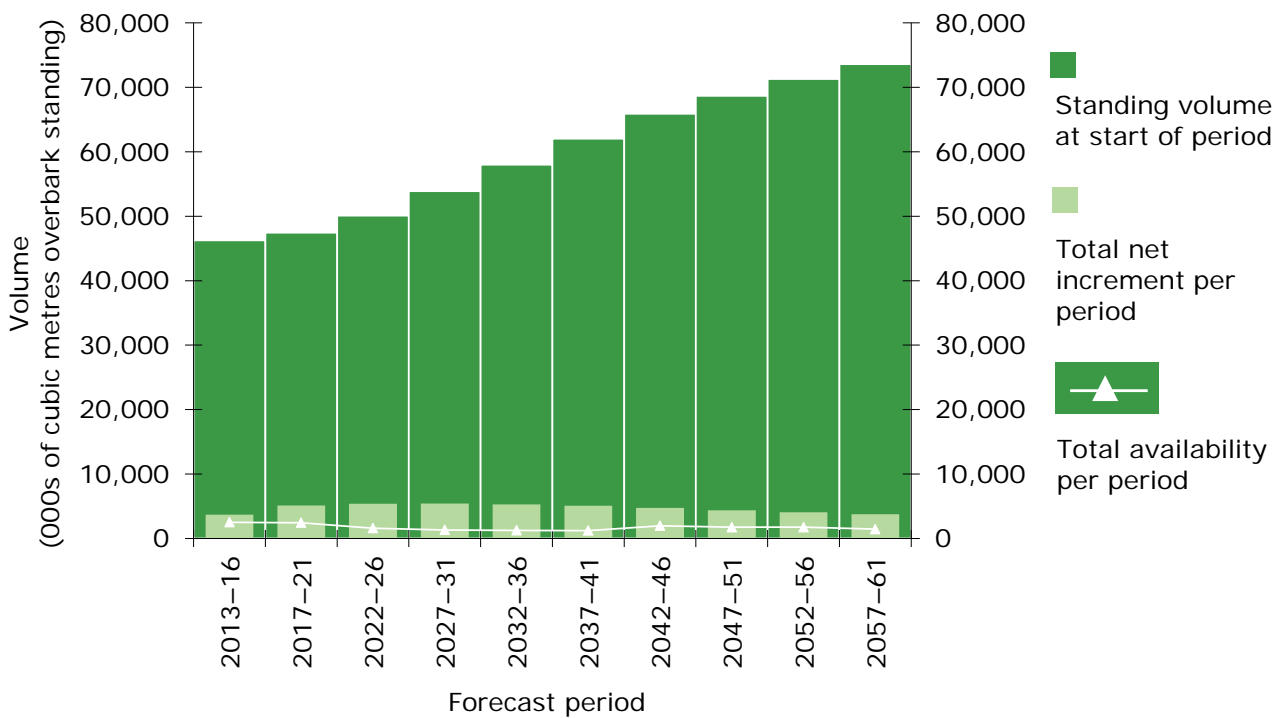


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**Figure 7** 50-year forecast of softwood standing volume, increment and availability



**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>183</b>	<b>630</b>	<b>10</b>	<b>813</b>	<b>165</b>	<b>662</b>	<b>8</b>	<b>827</b>	<b>142</b>	<b>580</b>	<b>7</b>	<b>722</b>	<b>135</b>	<b>574</b>	<b>9</b>	<b>708</b>
Sitka spruce	5	2	32	7	3	9	31	12	3	6	39	9	3	5	39	7
Scots pine	26	139	23	165	24	135	16	159	17	119	19	136	19	165	21	183
Corsican pine	42	45	32	87	39	48	35	88	38	18	27	56	27	22	36	49
Norway spruce	27	56	15	82	25	103	28	128	20	84	26	104	21	143	25	163
Larches	17	127	22	144	15	115	17	129	12	68	14	80	11	66	17	77
Douglas fir	44	163	24	207	37	135	20	171	35	175	14	210	40	70	24	109
Lodgepole pine	0	0	108	1	0	0	-	0	0	4	108	4	0	0	-	0
Other conifers	22	97	27	119	22	117	20	139	17	105	18	122	15	103	20	118
<b>All broadleaves</b>	<b>87</b>	<b>2,801</b>	<b>5</b>	<b>2,888</b>	<b>15</b>	<b>2,191</b>	<b>4</b>	<b>2,205</b>	<b>69</b>	<b>1,179</b>	<b>5</b>	<b>1,248</b>	<b>17</b>	<b>1,065</b>	<b>7</b>	<b>1,082</b>
Oak	26	284	16	310	3	300	16	303	20	232	17	252	5	292	13	296
Beech	43	227	17	270	7	248	14	255	35	187	14	223	6	214	21	220
Sycamore	1	232	16	233	0	153	16	154	1	70	18	71	0	41	20	41
Ash	4	1025	8	1029	1	729	6	730	3	255	7	259	1	141	10	143
Birch	2	175	10	177	1	208	11	209	2	104	10	106	1	65	15	66
Sweet chestnut	2	80	34	83	1	37	22	38	2	28	15	30	1	55	38	57
Hazel	0	142	10	142	0	151	10	151	0	88	13	88	0	39	18	39
Hawthorn	0	26	13	26	0	29	13	29	0	21	11	21	0	24	20	24
Alder	1	127	21	127	0	101	19	101	0	36	16	36	0	25	32	25
Willow	0	46	19	46	0	35	15	35	0	24	13	24	0	60	42	60
Other broadleaves	7	443	16	450	2	207	13	209	5	131	11	137	2	107	11	109
<b>All species</b>	<b>270</b>	<b>3,432</b>	<b>4</b>	<b>3,702</b>	<b>180</b>	<b>2,860</b>	<b>3</b>	<b>3,040</b>	<b>211</b>	<b>1,751</b>	<b>4</b>	<b>1,962</b>	<b>152</b>	<b>1,644</b>	<b>5</b>	<b>1,796</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>113</b>	<b>524</b>	<b>10</b>	<b>637</b>	<b>120</b>	<b>420</b>	<b>14</b>	<b>540</b>	<b>146</b>	<b>335</b>	<b>14</b>	<b>481</b>	<b>126</b>	<b>269</b>	<b>13</b>	<b>394</b>
Sitka spruce	4	9	26	13	4	9	20	12	6	15	30	21	5	11	14	16
Scots pine	12	226	19	238	18	154	26	172	20	90	28	110	15	70	36	85
Corsican pine	29	11	29	40	25	25	88	50	46	21	44	67	29	2	43	31
Norway spruce	15	78	28	93	17	65	27	81	11	74	37	85	14	38	32	52
Larches	11	58	23	70	11	35	17	46	17	25	17	42	16	37	29	53
Douglas fir	33	69	24	102	33	33	17	67	35	35	13	69	33	45	15	78
Lodgepole pine	0	0	-	0	0	0	29	0	0	0	29	0	0	0	47	0
Other conifers	9	72	19	81	12	99	33	111	11	76	35	87	14	66	20	81
<b>All broadleaves</b>	<b>61</b>	<b>940</b>	<b>6</b>	<b>1,001</b>	<b>55</b>	<b>859</b>	<b>5</b>	<b>914</b>	<b>115</b>	<b>1,035</b>	<b>4</b>	<b>1,150</b>	<b>45</b>	<b>1,021</b>	<b>6</b>	<b>1,066</b>
Oak	18	134	10	152	11	150	18	161	51	133	12	184	17	163	20	181
Beech	30	222	20	252	34	156	14	189	44	191	19	235	16	172	20	188
Sycamore	1	46	16	47	0	36	12	37	1	62	11	63	1	53	12	54
Ash	3	182	10	185	2	180	8	182	5	239	7	244	3	205	10	208
Birch	1	61	13	62	2	53	9	54	2	86	11	88	1	77	11	78
Sweet chestnut	2	47	27	49	1	14	17	15	2	32	24	35	1	42	32	43
Hazel	0	64	20	64	0	53	14	53	0	58	12	58	0	92	9	92
Hawthorn	0	22	9	22	0	39	28	39	0	26	8	26	0	35	22	35
Alder	0	17	22	17	0	15	16	16	0	24	21	24	0	19	18	20
Willow	0	21	12	21	0	55	24	55	0	30	27	30	0	26	14	26
Other broadleaves	5	124	13	129	5	109	8	114	8	150	8	158	4	136	12	141
<b>All species</b>	<b>174</b>	<b>1,467</b>	<b>5</b>	<b>1,640</b>	<b>175</b>	<b>1,274</b>	<b>5</b>	<b>1,450</b>	<b>261</b>	<b>1,359</b>	<b>5</b>	<b>1,620</b>	<b>171</b>	<b>1,292</b>	<b>5</b>	<b>1,463</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>113</b>	<b>286</b>	<b>14</b>	<b>400</b>	<b>127</b>	<b>260</b>	<b>8</b>	<b>387</b>
Sitka spruce	5	15	11	20	6	17	10	22
Scots pine	15	72	28	88	21	79	24	100
Corsican pine	23	1	40	24	21	1	45	22
Norway spruce	10	71	49	81	15	28	16	42
Larches	12	25	16	37	12	27	15	40
Douglas fir	37	45	11	82	36	50	11	86
Lodgepole pine	0	0	47	0	1	0	47	1
Other conifers	11	57	14	68	14	59	13	73
<b>All broadleaves</b>	<b>69</b>	<b>1,083</b>	<b>5</b>	<b>1,152</b>	<b>51</b>	<b>965</b>	<b>6</b>	<b>1,017</b>
Oak	26	129	13	154	15	130	14	145
Beech	32	205	16	236	25	246	19	271
Sycamore	1	51	14	52	0	36	13	37
Ash	3	256	7	259	2	167	8	169
Birch	2	81	11	83	2	70	11	72
Sweet chestnut	2	17	23	19	2	36	33	38
Hazel	0	60	10	60	0	63	9	63
Hawthorn	0	30	9	30	0	33	12	33
Alder	0	20	18	20	0	16	17	16
Willow	0	65	25	65	0	47	23	47
Other broadleaves	5	164	10	168	4	116	9	120
<b>All species</b>	<b>182</b>	<b>1,373</b>	<b>5</b>	<b>1,555</b>	<b>179</b>	<b>1,229</b>	<b>5</b>	<b>1,407</b>

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**Table 14** 50-year forecast of standing volume; average annual 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	4,358	12,549	5	<b>16,907</b>
2017–21	4,474	11,554	6	<b>16,028</b>
2022–26	4,595	10,007	6	<b>14,602</b>
2027–31	4,714	8,356	7	<b>13,070</b>
2032–36	4,843	6,799	8	<b>11,642</b>
2037–41	4,952	5,892	8	<b>10,844</b>
2042–46	4,991	5,306	8	<b>10,297</b>
2047–51	4,970	5,270	7	<b>10,240</b>
2052–56	5,043	5,549	7	<b>10,592</b>
2057–61	5,059	5,898	6	<b>10,957</b>
<b>All broadleaves</b>				
2013–16	4,936	35,119	3	<b>40,055</b>
2017–21	5,141	29,164	3	<b>34,305</b>
2022–26	5,285	24,869	3	<b>30,155</b>
2027–31	5,474	24,350	3	<b>29,824</b>
2032–36	5,644	24,458	3	<b>30,102</b>
2037–41	5,723	25,258	3	<b>30,981</b>
2042–46	5,716	25,908	3	<b>31,624</b>
2047–51	5,658	26,595	3	<b>32,253</b>
2052–56	5,731	26,883	3	<b>32,614</b>
2057–61	5,797	26,904	3	<b>32,702</b>
<b>All species</b>				
2013–16	9,294	47,678	2	<b>56,972</b>
2017–21	9,615	40,689	2	<b>50,304</b>
2022–26	9,880	34,853	3	<b>44,734</b>
2027–31	10,188	32,668	3	<b>42,856</b>
2032–36	10,487	31,197	3	<b>41,684</b>
2037–41	10,675	31,080	3	<b>41,755</b>
2042–46	10,707	31,196	3	<b>41,903</b>
2047–51	10,628	31,863	3	<b>42,491</b>
2052–56	10,774	32,426	2	<b>43,200</b>
2057–61	10,856	32,784	2	<b>43,640</b>

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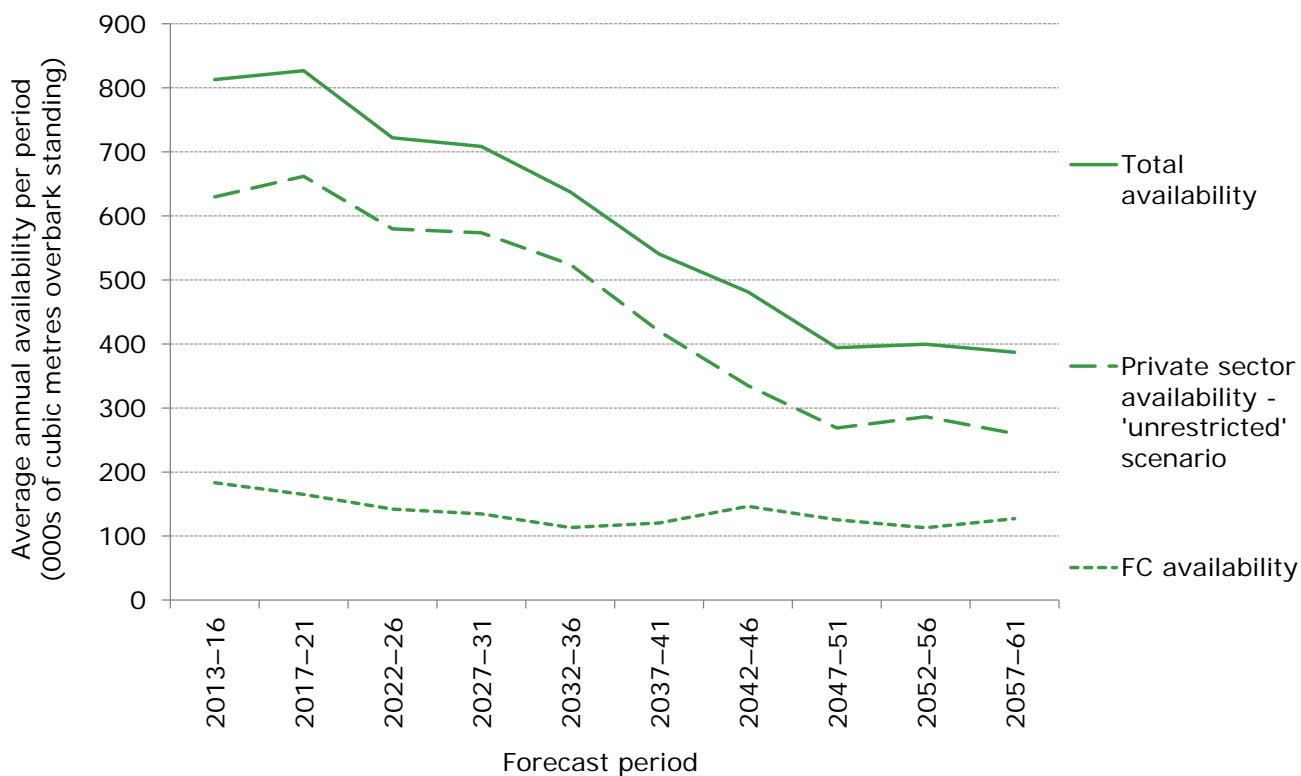
**Table 15** 50-year forecast of net increment; average annual volumes within periods – unrestricted biological potential for Private sector hardwoods

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	179	405	5	<b>583</b>
2017–21	176	367	5	<b>543</b>
2022–26	162	304	6	<b>465</b>
2027–31	152	263	6	<b>415</b>
2032–36	144	236	6	<b>380</b>
2037–41	139	244	6	<b>383</b>
2042–46	136	265	6	<b>401</b>
2047–51	131	301	5	<b>432</b>
2052–56	129	338	5	<b>466</b>
2057–61	129	368	4	<b>497</b>
<b>All broadleaves</b>				
2013–16	74	828	3	<b>903</b>
2017–21	75	837	2	<b>913</b>
2022–26	74	845	2	<b>920</b>
2027–31	76	920	2	<b>996</b>
2032–36	77	1,018	2	<b>1,095</b>
2037–41	76	1,109	2	<b>1,185</b>
2042–46	74	1,157	2	<b>1,231</b>
2047–51	72	1,146	2	<b>1,218</b>
2052–56	73	1,087	2	<b>1,159</b>
2057–61	73	1,027	2	<b>1,100</b>
<b>All species</b>				
2013–16	253	1,231	2	<b>1,484</b>
2017–21	251	1,203	2	<b>1,454</b>
2022–26	236	1,147	2	<b>1,383</b>
2027–31	228	1,181	2	<b>1,410</b>
2032–36	221	1,252	2	<b>1,473</b>
2037–41	214	1,351	2	<b>1,565</b>
2042–46	210	1,422	2	<b>1,633</b>
2047–51	203	1,448	2	<b>1,651</b>
2052–56	201	1,426	2	<b>1,627</b>
2057–61	202	1,396	1	<b>1,597</b>



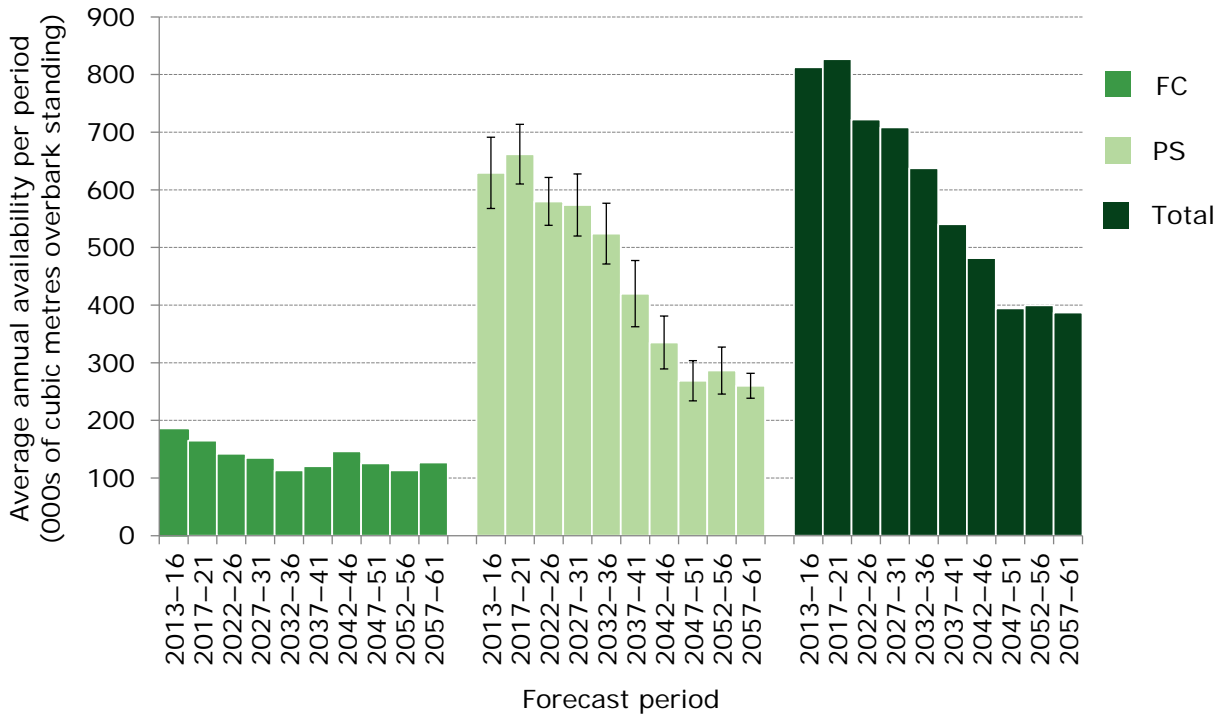
# NFI Provisional Report

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

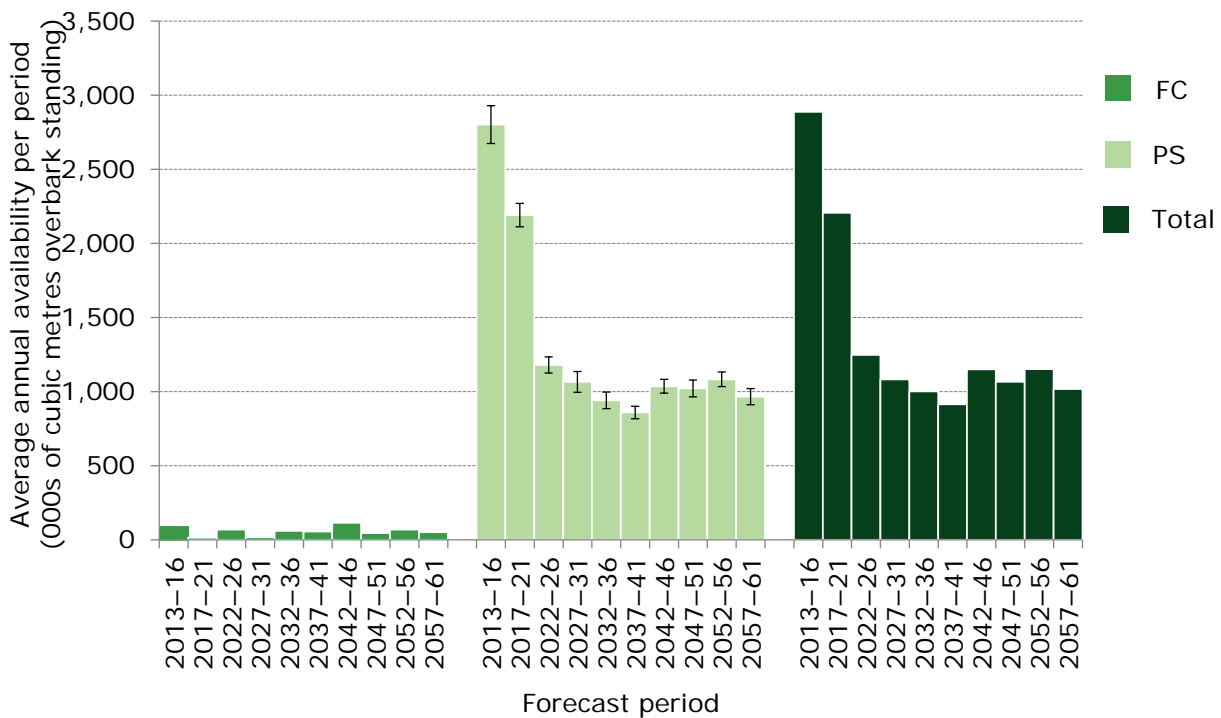


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**Figure 10** 50-year forecast comparison of average annual softwood availability–unrestricted biological potential for Private sector hardwoods

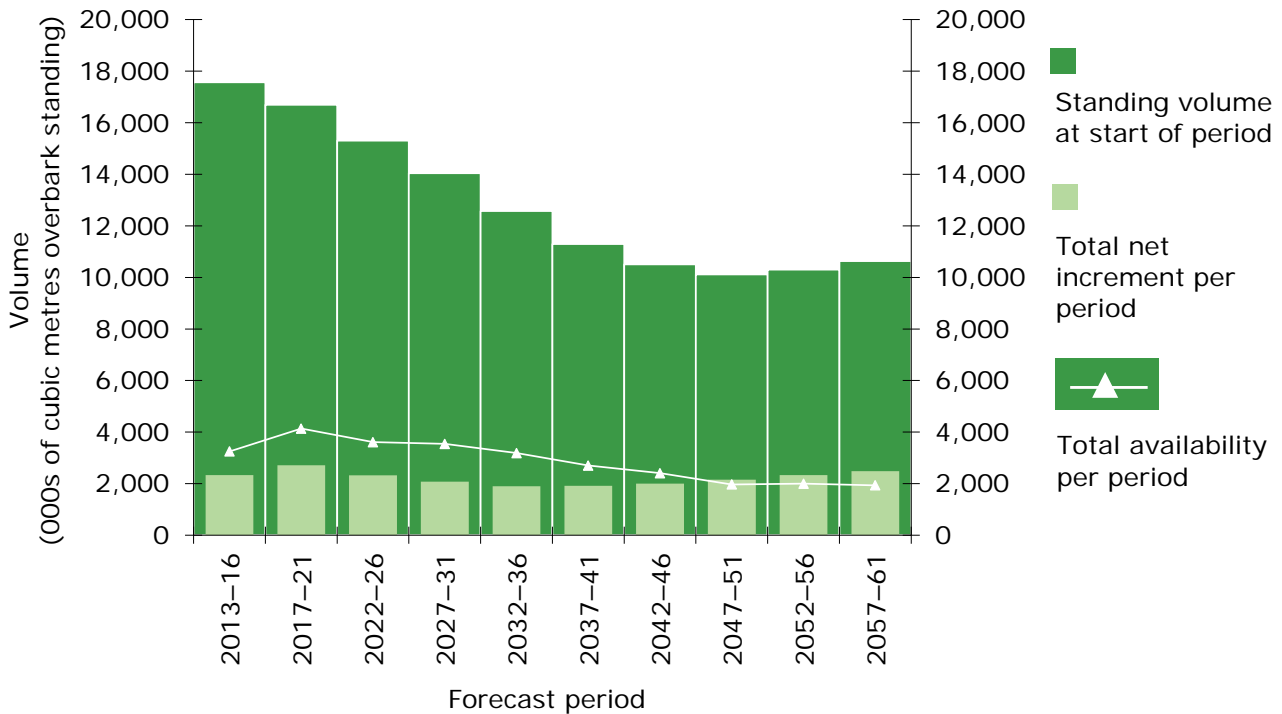


**Figure 11** 50-year forecast comparison of average annual hardwood availability – unrestricted biological potential for Private sector hardwoods

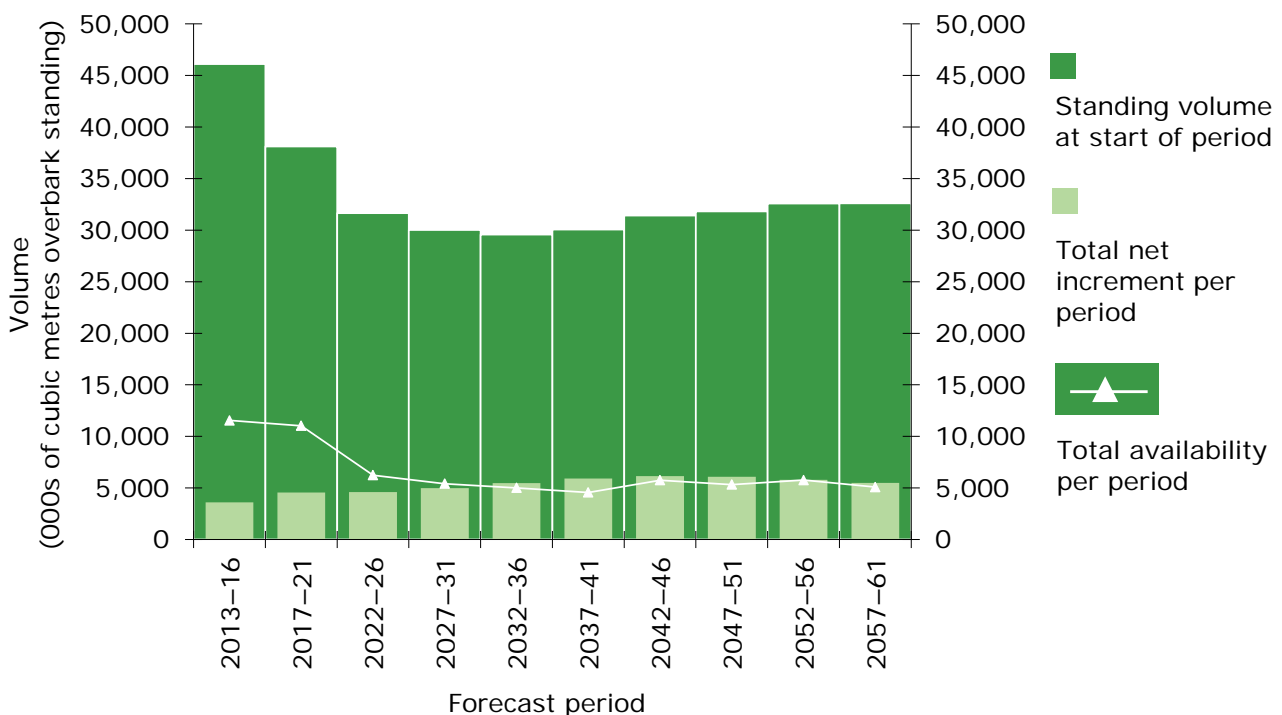


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**Figure 12** 50-year summary of softwood standing volume, increment and availability – unrestricted biological potential for Private sector hardwoods



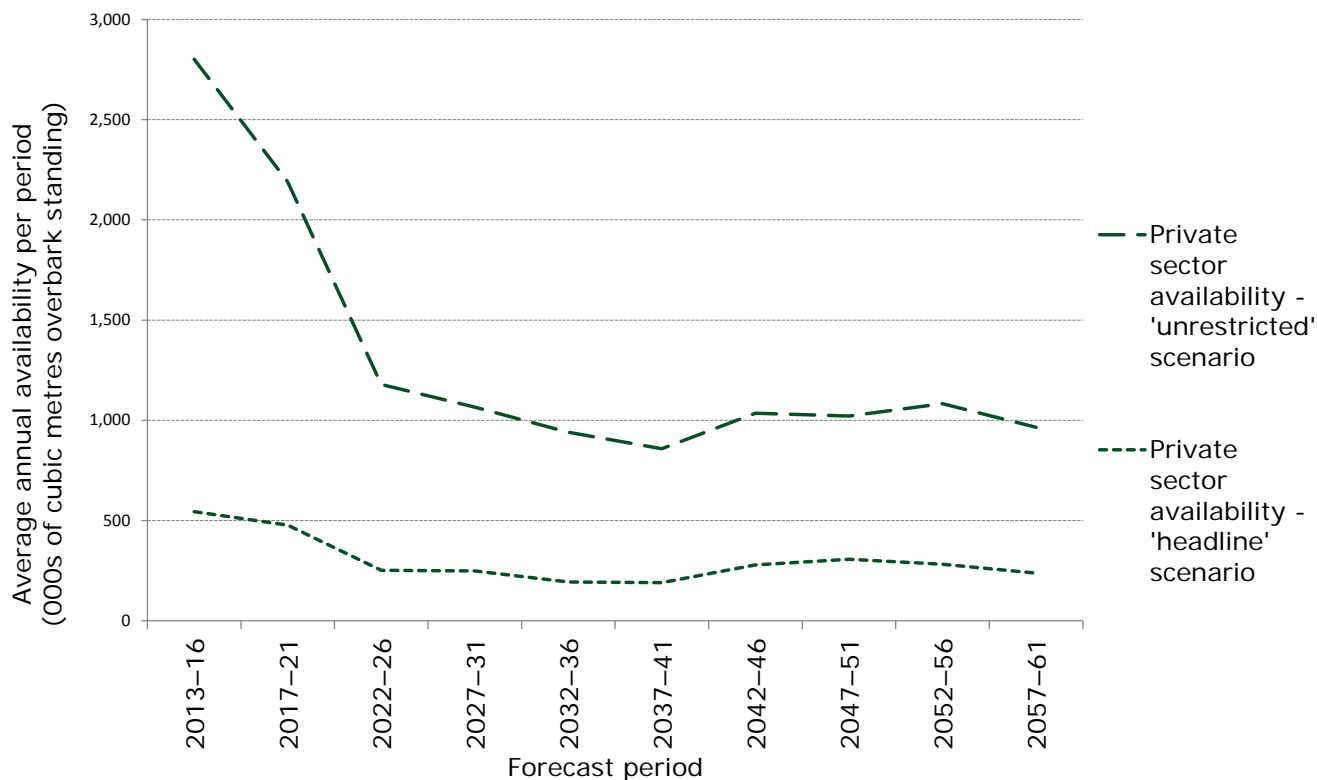
**Figure 13** 50-year summary of hardwood standing volume, increment and availability – unrestricted biological potential for Private sector hardwoods



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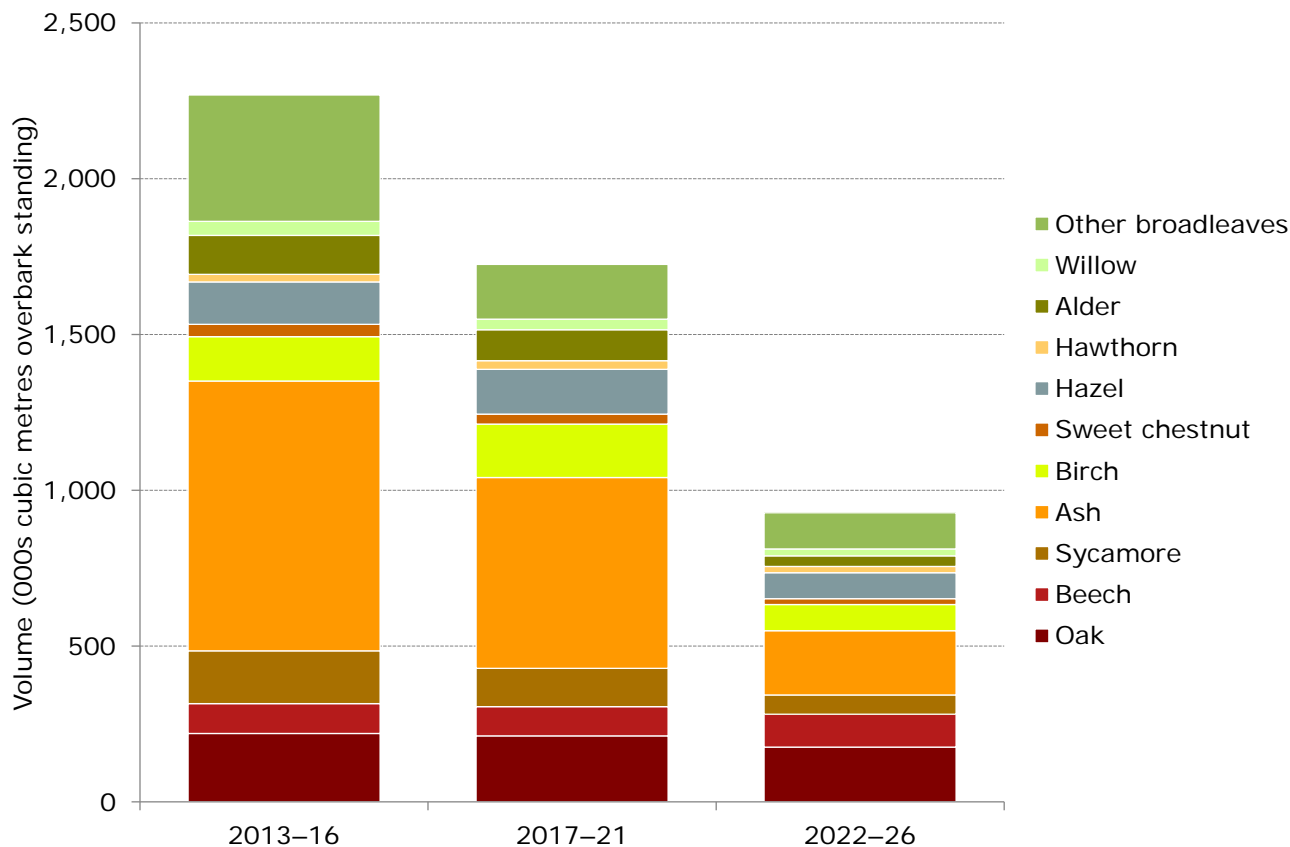
## Comparison of hardwood production between harvesting scenarios

**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>813</b>	<b>813</b>	<b>0</b>	<b>827</b>	<b>827</b>	<b>0</b>	<b>722</b>	<b>722</b>	<b>0</b>
Sitka spruce	7	7	0	12	12	0	9	9	0
Scots pine	165	165	0	159	159	0	136	136	0
Corsican pine	87	87	0	88	88	0	56	56	0
Norway spruce	82	82	0	128	128	0	104	104	0
Larches	144	144	0	129	129	0	80	80	0
Douglas fir	207	207	0	171	171	0	210	210	0
Lodgepole pine	1	1	0	0	0	0	4	4	0
Other conifers	119	119	0	139	139	0	122	122	0
<b>All broadleaves</b>	<b>631</b>	<b>2,888</b>	<b>2,257</b>	<b>492</b>	<b>2,205</b>	<b>1,713</b>	<b>320</b>	<b>1,248</b>	<b>928</b>
Oak	90	310	220	91	303	212	76	252	176
Beech	174	270	96	161	255	94	117	223	106
Sycamore	64	233	169	31	154	123	10	71	62
Ash	164	1,029	865	118	730	612	52	259	206
Birch	34	177	143	37	209	171	22	106	84
Sweet chestnut	44	83	39	6	38	32	11	30	19
Hazel	6	142	136	7	151	144	5	88	84
Hawthorn	1	26	25	1	29	27	1	21	20
Alder	3	127	125	2	101	99	2	36	34
Willow	1	46	45	1	35	34	1	24	22
Other broadleaves	45	450	405	33	209	176	21	137	116
<b>All species</b>	<b>1,445</b>	<b>3,702</b>	<b>2,257</b>	<b>1,322</b>	<b>3,040</b>	<b>1,718</b>	<b>1,032</b>	<b>1,962</b>	<b>930</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