

# NFI provisional estimates of larches in woodlands in Scotland

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

**Date:** July 2013

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

## Summary

This report provides a more detailed picture of the estimates of stocked area and standing volumes of larches published as part of the 2011 National Forest Inventory (NFI) suite of reports. Reports are published at [www.forestry.gov.uk/inventory](http://www.forestry.gov.uk/inventory).

The estimates provided in this report are provisional in nature and have been produced in response to the need for information on larches in south-west Scotland following outbreaks of Phytophthora in this region. They may be subject to revision after further quality checks on the data and the processes used to generate the estimates. If these result in substantial changes to the estimates, a revised publication will be issued.



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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 2011 forecast reports which can be found at [www.forestry.gov.uk/forecast](http://www.forestry.gov.uk/forecast). Refer to the *Standing timber volume in coniferous trees in Britain* and *NFI preliminary estimates of quantities of broadleaved species in British Woodlands with special focus on ash* reports for a description of the underlying methodologies and interpretation, also for the Scotland and GB context.

For the purposes of assessing the potential impact of phytophthora, three zones associated with the recent outbreak of phytophthora, centring on south-west Scotland, were established by the Scottish Timber Markets Impact Group.

The estimates reported here are based upon field samples assessed between November 2009 and February 2012, the results of which have been subjected to rigorous data quality assurance procedures. This approach was deemed the most expedient way to quickly circulate findings in response to the need for information on larches in the infected areas. These are relatively small areas to report on using the NFI field sample and consequently have produced large standard errors for many of the Private sector estimates. For corroboration purposes, the results generated from this sample were compared with those generated from an extended sample, including field assessments conducted between February 2012 and June 2013. (A rigorous programme of quality assurance on these later assessments has not yet been completed.) Comparison of the results from the reduced and extended data sets were mostly of a consistent order of magnitude.

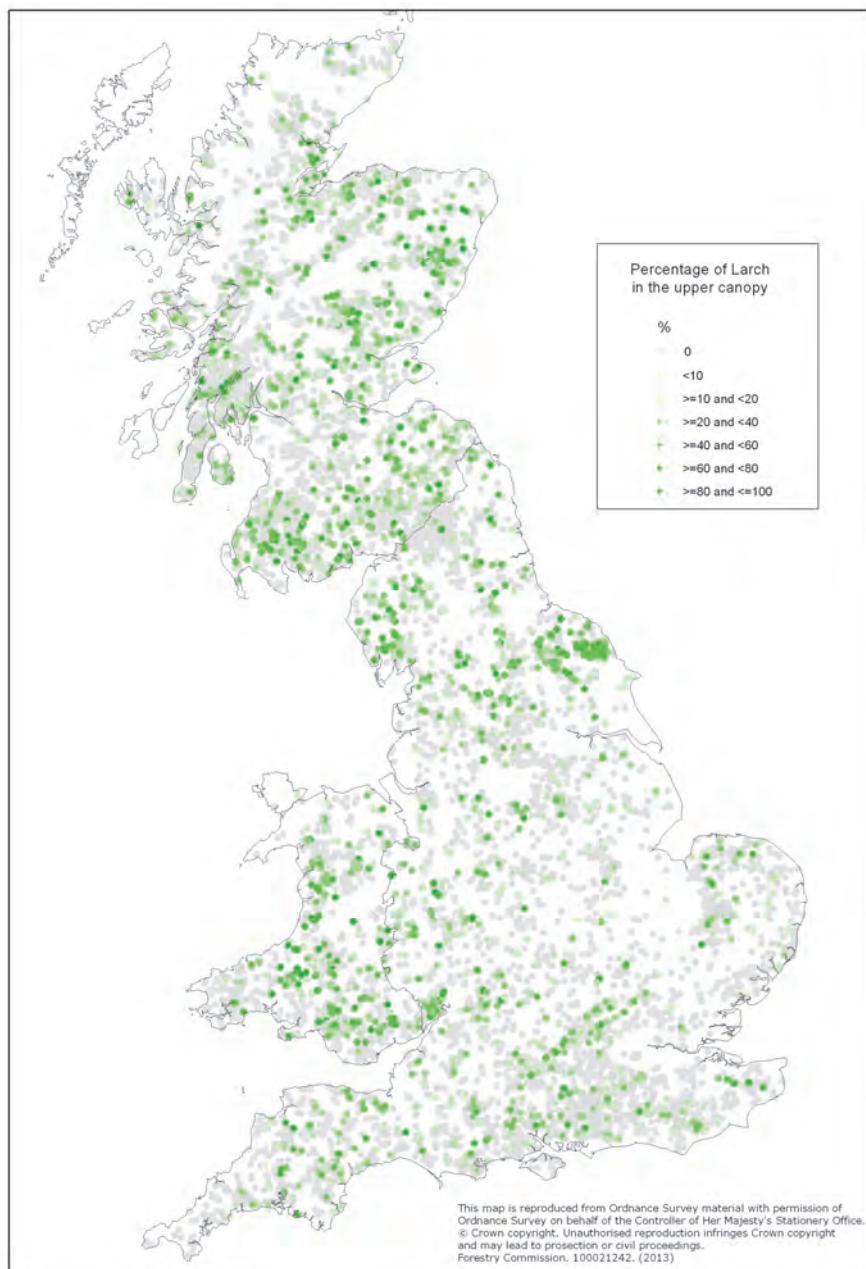
## Results

The results presented in this report are estimates of standing volumes and stocked areas as at 31 March 2011 for Scottish NFI reporting regions and for sub-regions of South Scotland that are important for risk assessment of Phytophthora infection of larch in Scotland. The data sources used for the compilation of these estimates are the same as described in the National Forest Inventory report *Standing timber volume for coniferous trees in Britain* (2012). Estimates for the Forestry Commission (FC) estate are derived from the FC's sub-compartment database, 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 attached to the private sector estimates, are provided in the earlier document.

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The results presented here essentially provide further detail on larch species in Scotland to the statistics on stocked areas and standing volumes reported in the National Forest Inventory report referred to above. However, although both reports provide estimates of stocked areas and standing volumes to a reference date of 31 March 2011, there will be some differences between the estimates quoted in each report relating to the same items. This is because the estimates provided in this report are based on models and processes which have undergone further improvement and development in the derivation of individual stocked areas and standing volumes from the field observations taken in the National Forest Inventory.

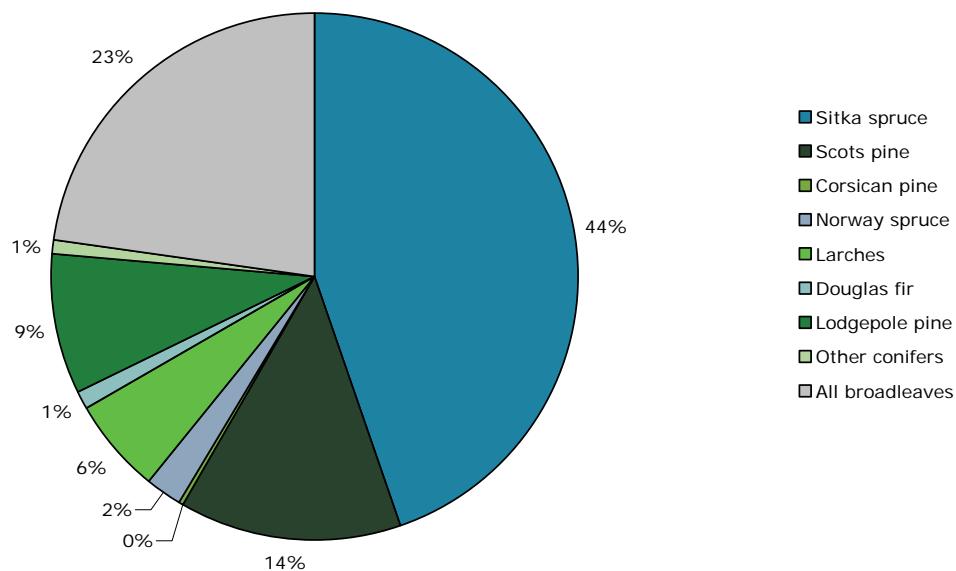
**Map 1** Proportion of larch within the upper canopy of 9000 NFI sample squares



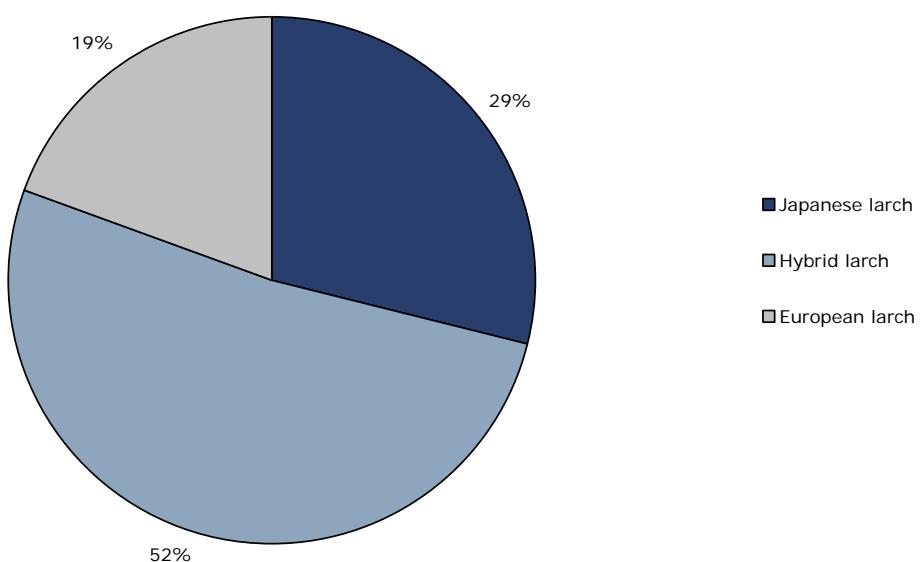
## Scotland

2011 Stocked area at 31 March 2011

**Figure 1** Species composition (by stocked area) – Scotland



**Figure 2** Larch species composition (by stocked area) – Scotland



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**Table 1** Stocked area by principal species – Scotland

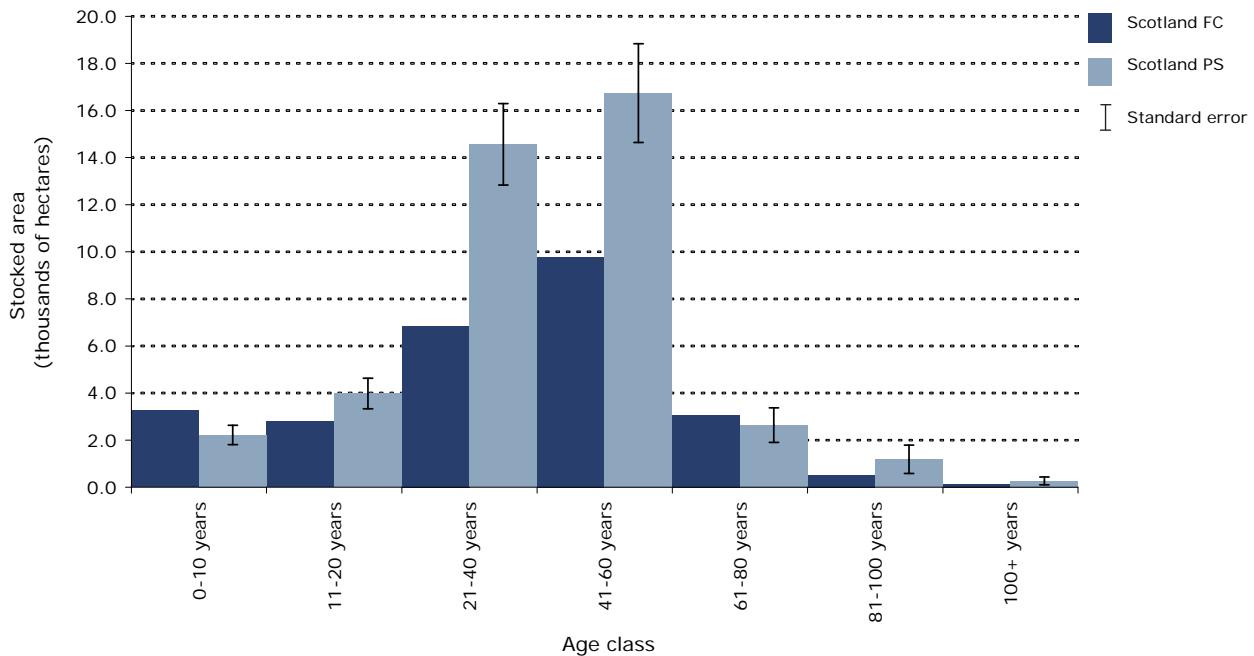
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Scotland</b>				
<b>All conifers</b>	<b>374.1</b>	<b>524.9</b>	<b>2</b>	<b>899.1</b>
Sitka spruce	229.3	289.3	2	<b>518.6</b>
Scots pine	45.1	116.2	4	<b>161.3</b>
Corsican pine	1.6	1.4	41	<b>3.0</b>
Norway spruce	10.9	14.9	12	<b>25.8</b>
Larches	26.4	41.6	7	<b>68.0</b>
Douglas fir	5.4	5.2	19	<b>10.6</b>
Lodgepole pine	52.1	49.1	16	<b>101.2</b>
Other conifers	3.3	6.4	19	<b>9.7</b>
<b>All broadleaves</b>	<b>27.3</b>	<b>237.5</b>	<b>2</b>	<b>264.9</b>
Oak	2.5	24.1	11	<b>26.6</b>
Beech	0.6	13.7	13	<b>14.3</b>
Sycamore	0.3	17.6	10	<b>17.9</b>
Ash	0.4	13.1	12	<b>13.5</b>
Birch	9.2	108.5	4	<b>117.8</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.2	5.7	20	<b>6.0</b>
Hawthorn	0.0	6.0	21	<b>6.0</b>
Alder	0.6	13.7	13	<b>14.2</b>
Willow	0.0	8.6	11	<b>8.6</b>
Other broadleaves	13.5	26.0	8	<b>39.5</b>
<b>All species</b>	<b>401.5</b>	<b>762.1</b>	<b>1</b>	<b>1,163.6</b>

**Table 2** Stocked area of larches – Scotland

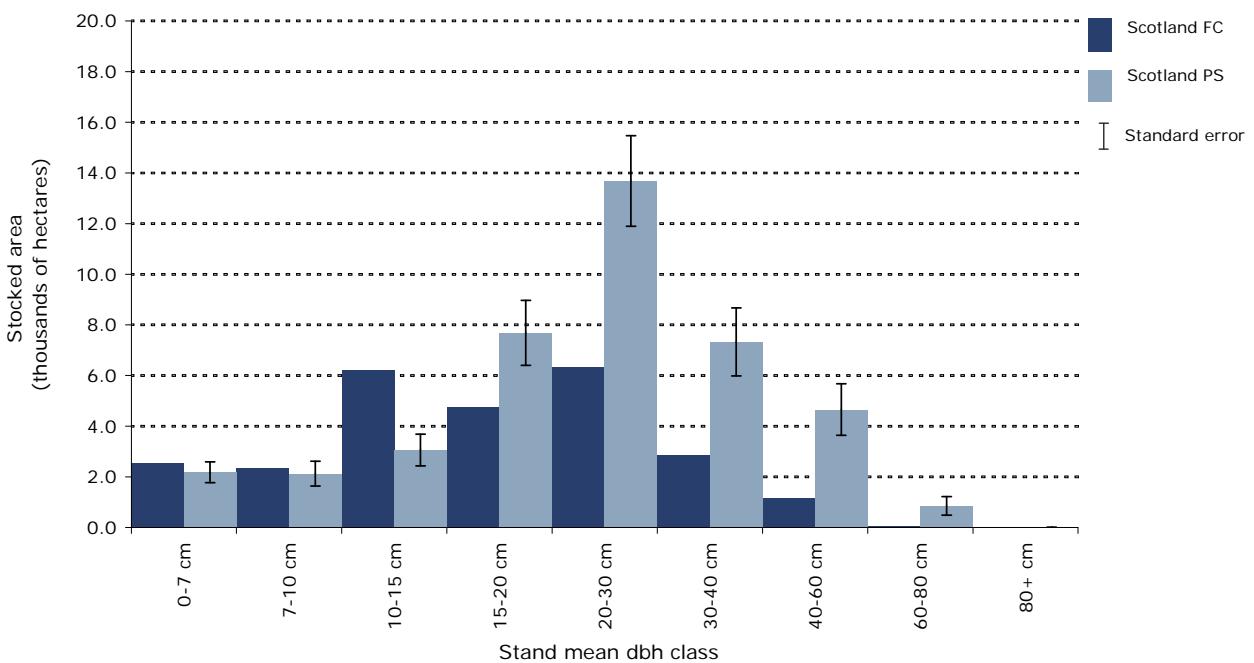
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Scotland</b>				
<b>Larches</b>	<b>26.4</b>	<b>41.6</b>	<b>7</b>	<b>68.0</b>
Japanese larch	15.4	4.3	21	<b>19.7</b>
Hybrid larch	8.0	27.2	9	<b>35.2</b>
European larch	3.0	10.1	15	<b>13.1</b>
Other larches	0.0	0.0	-	<b>0.0</b>

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**Figure 3** Stocked area of larches by age class – Scotland



**Figure 4** Stocked area of larches by stand mean dbh class – Scotland



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**Table 3** Stocked area of larches by age class – Scotland

Age class (years)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	3.3	2.2	19	<b>5.5</b>
11-20	2.8	4.0	16	<b>6.8</b>
21-40	6.9	14.6	12	<b>21.4</b>
41-60	9.8	16.7	13	<b>26.5</b>
61-80	3.1	2.6	28	<b>5.7</b>
81-100	0.5	1.2	51	<b>1.7</b>
100+	0.1	0.3	64	<b>0.4</b>
<b>Total</b>	<b>26.4</b>	<b>41.6</b>	<b>7</b>	<b>68.0</b>
<b>Japanese larch</b>				
0-10	1.3	0.5	46	<b>1.7</b>
11-20	1.1	1.0	36	<b>2.1</b>
21-40	4.2	1.2	42	<b>5.4</b>
41-60	6.5	1.3	39	<b>7.8</b>
61-80	2.1	0.1	73	<b>2.2</b>
81-100	0.2	0.3	108	<b>0.6</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>15.4</b>	<b>4.3</b>	<b>21</b>	<b>19.7</b>
<b>Hybrid larch</b>				
0-10	1.6	1.7	21	<b>3.3</b>
11-20	1.5	2.5	19	<b>4.0</b>
21-40	2.4	9.2	15	<b>11.6</b>
41-60	2.2	10.4	16	<b>12.7</b>
61-80	0.2	2.4	30	<b>2.5</b>
81-100	0.0	0.8	62	<b>0.8</b>
100+	0.0	0.3	64	<b>0.3</b>
<b>Total</b>	<b>8.0</b>	<b>27.2</b>	<b>9</b>	<b>35.2</b>
<b>European larch</b>				
0-10	0.4	0.1	70	<b>0.5</b>
11-20	0.1	0.6	52	<b>0.7</b>
21-40	0.2	4.1	22	<b>4.4</b>
41-60	1.0	5.0	24	<b>6.1</b>
61-80	0.8	0.2	89	<b>1.0</b>
81-100	0.3	0.1	95	<b>0.4</b>
100+	0.1	0.0	-	<b>0.1</b>
<b>Total</b>	<b>3.0</b>	<b>10.1</b>	<b>15</b>	<b>13.1</b>

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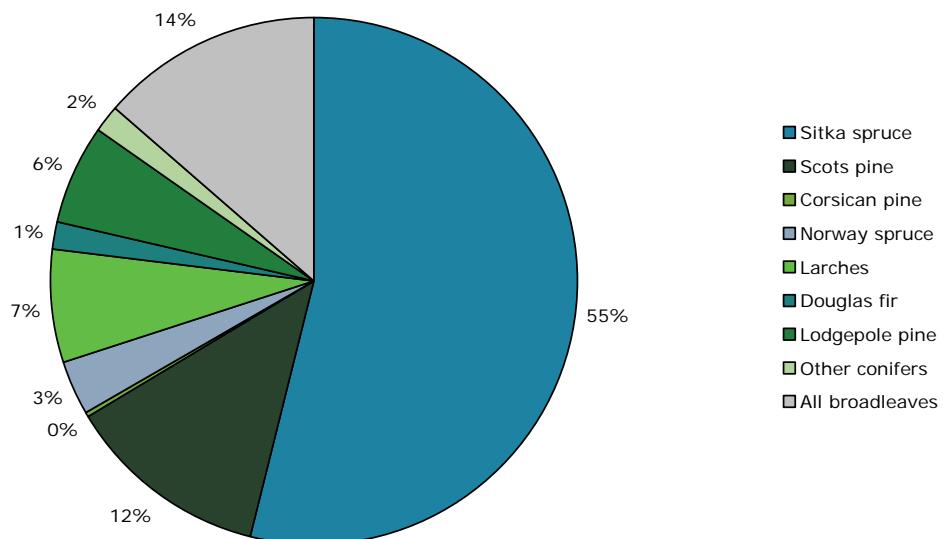
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**Table 4** Stocked area of larches by stand mean dbh class – Scotland

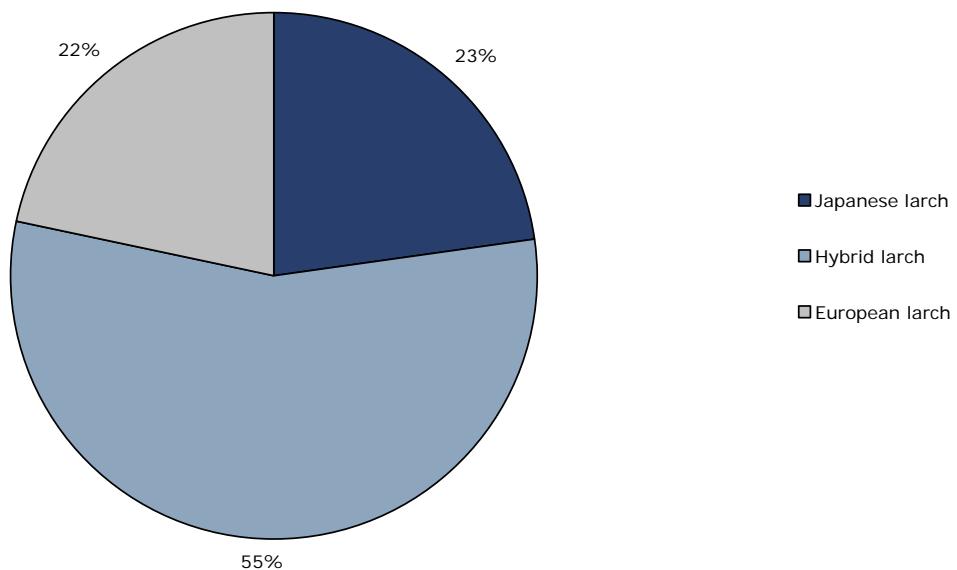
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	2.6	2.2	19	<b>4.7</b>
7-10	2.4	2.1	23	<b>4.5</b>
10-15	6.2	3.1	20	<b>9.3</b>
15-20	4.8	7.7	17	<b>12.5</b>
20-30	6.4	13.7	13	<b>20.0</b>
30-40	2.9	7.3	18	<b>10.2</b>
40-60	1.2	4.7	22	<b>5.8</b>
60-80	0.1	0.9	43	<b>0.9</b>
80+	0.0	0.0	93	<b>0.0</b>
<b>Total</b>	<b>26.4</b>	<b>41.6</b>	<b>7</b>	<b>68.0</b>
<b>Japanese larch</b>				
0-7	1.1	0.5	46	<b>1.6</b>
7-10	0.8	0.3	43	<b>1.1</b>
10-15	3.6	0.3	41	<b>3.9</b>
15-20	2.9	1.5	40	<b>4.3</b>
20-30	4.0	1.7	36	<b>5.7</b>
30-40	2.1	0.0	89	<b>2.2</b>
40-60	0.9	0.0	108	<b>1.0</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>15.4</b>	<b>4.3</b>	<b>21</b>	<b>19.7</b>
<b>Hybrid larch</b>				
0-7	1.1	1.7	21	<b>2.8</b>
7-10	1.4	1.3	29	<b>2.6</b>
10-15	2.3	2.5	24	<b>4.8</b>
15-20	1.4	4.2	21	<b>5.6</b>
20-30	1.3	8.4	17	<b>9.7</b>
30-40	0.4	4.3	23	<b>4.7</b>
40-60	0.1	4.0	24	<b>4.1</b>
60-80	0.0	0.8	45	<b>0.8</b>
80+	0.0	0.0	93	<b>0.0</b>
<b>Total</b>	<b>8.0</b>	<b>27.2</b>	<b>9</b>	<b>35.2</b>
<b>European larch</b>				
0-7	0.4	0.1	70	<b>0.4</b>
7-10	0.2	0.6	51	<b>0.8</b>
10-15	0.3	0.2	43	<b>0.5</b>
15-20	0.6	2.0	36	<b>2.5</b>
20-30	1.1	3.6	24	<b>4.7</b>
30-40	0.4	3.0	31	<b>3.3</b>
40-60	0.1	0.7	52	<b>0.8</b>
60-80	0.0	0.0	85	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>3.0</b>	<b>10.1</b>	<b>15</b>	<b>13.1</b>

2011 Standing volume at 31 March 2011

**Figure 5** Species composition (by standing volume) – Scotland



**Figure 6** Larch species composition (by standing volume) – Scotland



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**Table 5** Standing volume by principal species – Scotland

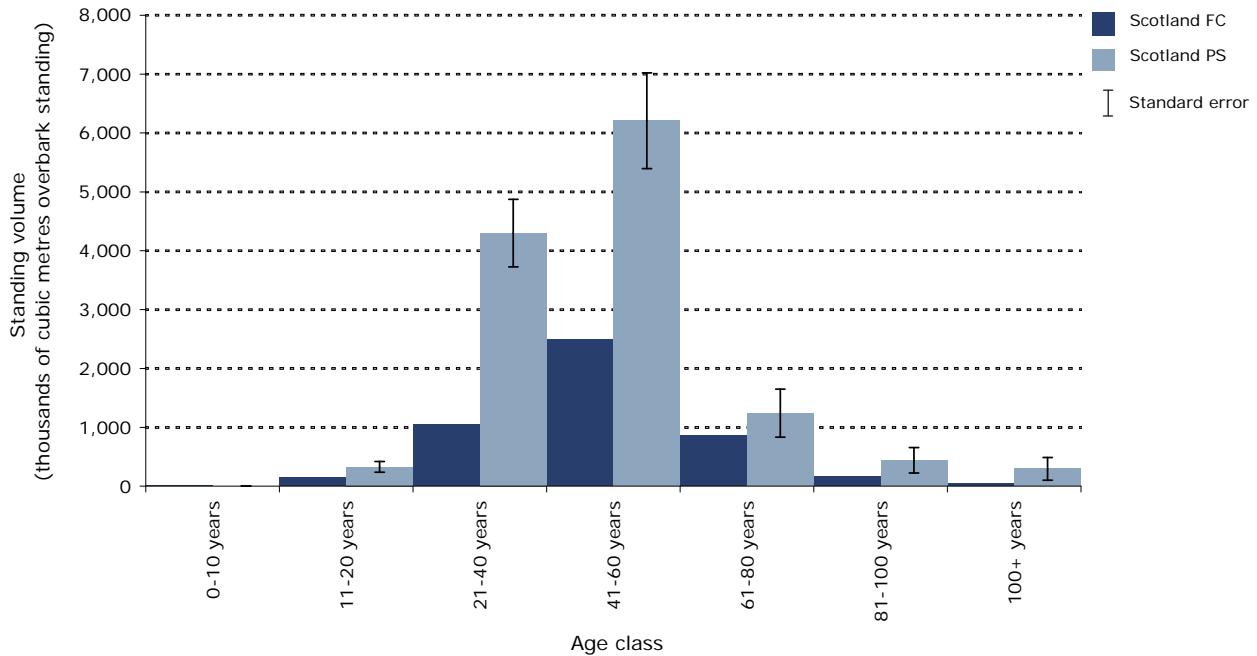
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>Scotland</b>				
<b>All conifers</b>	<b>79,558</b>	<b>138,617</b>	<b>2</b>	<b>218,175</b>
Sitka spruce	51,641	84,379	4	136,020
Scots pine	8,540	22,445	6	30,984
Corsican pine	349	349	50	697
Norway spruce	3,482	5,234	15	8,716
Larches	4,764	12,815	8	17,579
Douglas fir	1,386	2,359	23	3,745
Lodgepole pine	8,391	7,099	10	15,489
Other conifers	1,006	3,699	38	4,705
<b>All broadleaves</b>	<b>3,150</b>	<b>30,896</b>	<b>6</b>	<b>34,046</b>
Oak	567	6,481	15	7,047
Beech	126	5,277	18	5,402
Sycamore	36	3,886	15	3,922
Ash	38	2,662	24	2,700
Birch	1,302	7,495	6	8,797
Sweet chestnut	0	0	-	0
Hazel	38	276	22	314
Hawthorn	0	187	23	187
Alder	72	1,686	25	1,758
Willow	0	391	17	392
Other broadleaves	971	2,643	20	3,614
<b>All species</b>	<b>82,708</b>	<b>169,066</b>	<b>2</b>	<b>251,774</b>

**Table 6** Standing volume of larches – Scotland

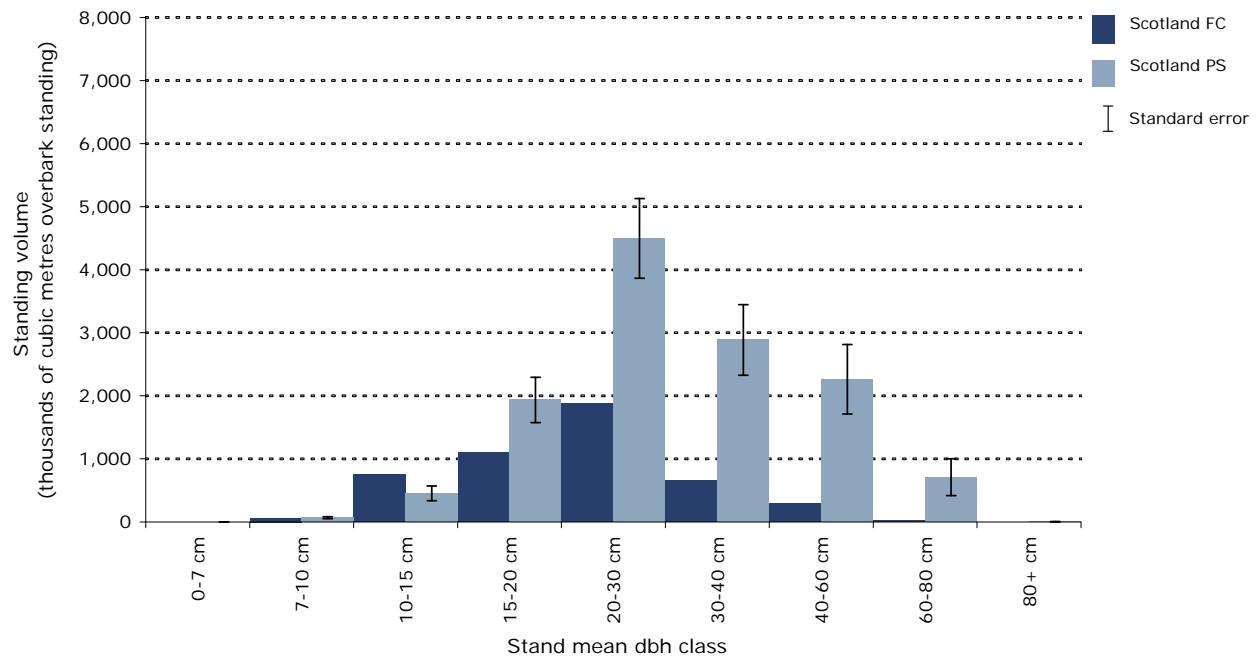
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>Scotland</b>				
<b>Larches</b>	<b>4,764</b>	<b>12,815</b>	<b>8</b>	<b>17,578</b>
Japanese larch	3,116	895	27	4,011
Hybrid larch	1,064	8,700	11	9,764
European larch	584	3,218	17	3,802
Other larches	0	0	-	0

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**Figure 7** Standing volume of larches by age class – Scotland



**Figure 8** Standing volume of larches by stand mean dbh class – Scotland



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**Table 7** Standing volume of larches by age class – Scotland

Age class (years)	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>Larches</b>				
0-10	9	2	37	<b>10</b>
11-20	154	328	27	<b>482</b>
21-40	1,041	4,299	13	<b>5,340</b>
41-60	2,490	6,208	13	<b>8,698</b>
61-80	861	1,241	33	<b>2,102</b>
81-100	170	440	49	<b>610</b>
100+	39	297	65	<b>336</b>
<b>Total</b>	<b>4,764</b>	<b>12,815</b>	<b>8</b>	<b>17,578</b>
<b>Japanese larch</b>				
0-10	2	0	0	<b>2</b>
11-20	67	95	67	<b>162</b>
21-40	657	236	41	<b>893</b>
41-60	1,698	440	41	<b>2,139</b>
61-80	602	24	79	<b>626</b>
81-100	86	101	108	<b>186</b>
100+	4	0	-	<b>4</b>
<b>Total</b>	<b>3,116</b>	<b>895</b>	<b>27</b>	<b>4,011</b>
<b>Hybrid larch</b>				
0-10	6	1	42	<b>8</b>
11-20	84	225	28	<b>309</b>
21-40	359	2,737	16	<b>3,097</b>
41-60	550	4,064	17	<b>4,614</b>
61-80	51	1,096	36	<b>1,146</b>
81-100	13	279	64	<b>293</b>
100+	0	297	65	<b>297</b>
<b>Total</b>	<b>1,064</b>	<b>8,700</b>	<b>11</b>	<b>9,764</b>
<b>European larch</b>				
0-10	1	0	72	<b>1</b>
11-20	3	8	46	<b>11</b>
21-40	24	1,326	27	<b>1,351</b>
41-60	242	1,702	23	<b>1,943</b>
61-80	209	121	68	<b>330</b>
81-100	70	60	95	<b>131</b>
100+	35	0	-	<b>35</b>
<b>Total</b>	<b>584</b>	<b>3,218</b>	<b>17</b>	<b>3,802</b>

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**Table 8** Standing volume of larches by stand mean dbh class – Scotland

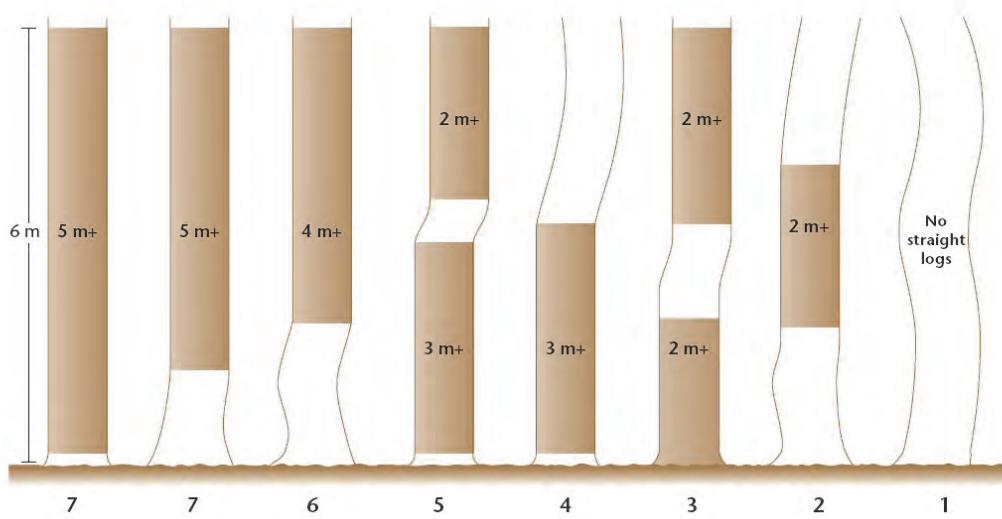
Mean stand DBH (cm)	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>Larches</b>				
0-7	0	1	43	<b>1</b>
7-10	63	66	24	<b>129</b>
10-15	746	452	26	<b>1,198</b>
15-20	1,096	1,935	19	<b>3,031</b>
20-30	1,885	4,496	14	<b>6,381</b>
30-40	659	2,888	19	<b>3,547</b>
40-60	297	2,263	24	<b>2,561</b>
60-80	17	709	41	<b>726</b>
80+	0	4	93	<b>4</b>
<b>Total</b>	<b>4,764</b>	<b>12,815</b>	<b>8</b>	<b>17,578</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	26	9	51	<b>35</b>
10-15	453	15	40	<b>469</b>
15-20	660	362	41	<b>1,021</b>
20-30	1,242	478	40	<b>1,720</b>
30-40	486	21	89	<b>507</b>
40-60	239	10	108	<b>249</b>
60-80	9	0	-	<b>9</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>3,116</b>	<b>895</b>	<b>27</b>	<b>4,011</b>
<b>Hybrid larch</b>				
0-7	0	1	53	<b>1</b>
7-10	34	48	30	<b>82</b>
10-15	257	401	29	<b>658</b>
15-20	298	1,082	24	<b>1,381</b>
20-30	350	2,800	19	<b>3,150</b>
30-40	86	1,830	24	<b>1,916</b>
40-60	35	1,909	27	<b>1,944</b>
60-80	4	625	45	<b>628</b>
80+	0	4	93	<b>4</b>
<b>Total</b>	<b>1,064</b>	<b>8,700</b>	<b>11</b>	<b>9,764</b>
<b>European larch</b>				
0-7	0	0	72	<b>0</b>
7-10	4	9	45	<b>13</b>
10-15	36	36	46	<b>71</b>
15-20	138	491	41	<b>629</b>
20-30	292	1,218	26	<b>1,510</b>
30-40	87	1,036	33	<b>1,123</b>
40-60	23	344	50	<b>367</b>
60-80	4	84	85	<b>88</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>584</b>	<b>3,218</b>	<b>17</b>	<b>3,802</b>

## 2011 Straightness

In the NFI, stem straightness is assessed according to the system that is based on the log straightness classifications detailed in FC Field Book 9 *Classification and presentation of softwood sawlogs* (Forestry Commission, 1993) which defines classes for the first 6 metres up the stem in terms of the length(s) of straight logs (as defined in FC Field book 9) which could be cut.

The original system has been revised and refined, as reported by Macdonald et al. (2001), involving further development of the sampling methodology, including the minimum diameters for assessable trees depending on years before harvest. Each sample tree is visually assessed and assigned a score based on the number and lengths of straight (i.e. bow not to exceed 1 cm for every 1 m in length) logs included in the lowest 6 m of the stem. The scoring system is shown in Figure 9a.

**Figure 9a** Straightness score - from FC Information Note 39.



Different combinations of log lengths in the first 6 m show a gradual reduction in quality from left to right (after Methley, 1998). It should be noted that the bow is very strictly defined and it may be operationally possible to accommodate a bow of up to 2 cm in every 1 m in length.

Table 9 and Figure 9b show the proportion of larch trees in different tree dbh classes for stem straightness scores in NFI samples in Scotland. It can be seen that there is a higher proportion of straighter trees in the larger (older) trees.

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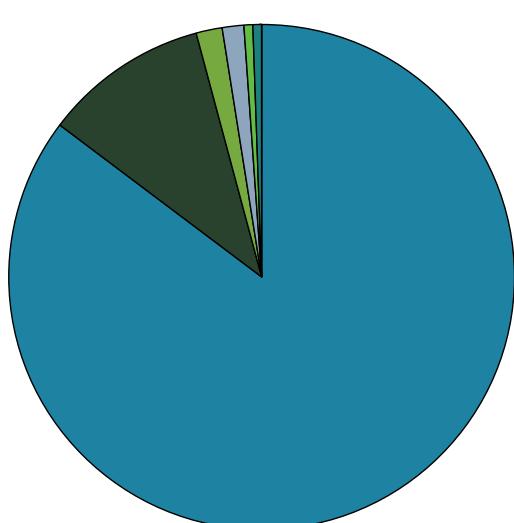
**Table 9** Percentage of larches with dbh of 15 cm or more in Scotland by stem straightness score

Tree dbh class	Percentage of larches by stem straightness score						
	7	6	5	4	3	2	1
15-20 cm	0	1	1	1	2	11	85
20-30 cm	1	2	2	4	4	16	72
30-40 cm	3	5	5	10	5	16	57
40+ cm	6	10	7	7	3	14	53
15+ cm	1	2	2	4	3	14	74

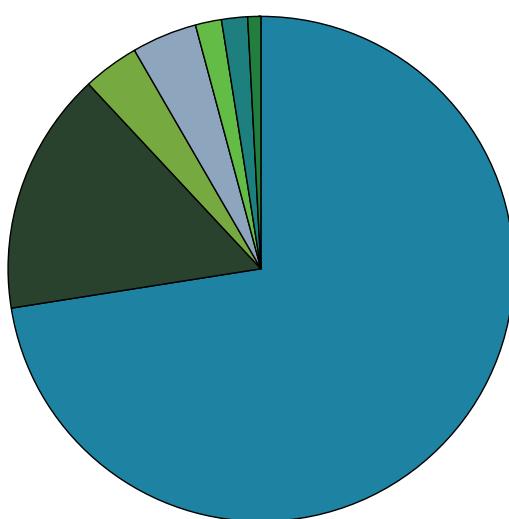
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**Figure 9b** Stem straightness scores of larches in Scotland with 15+ cm dbh

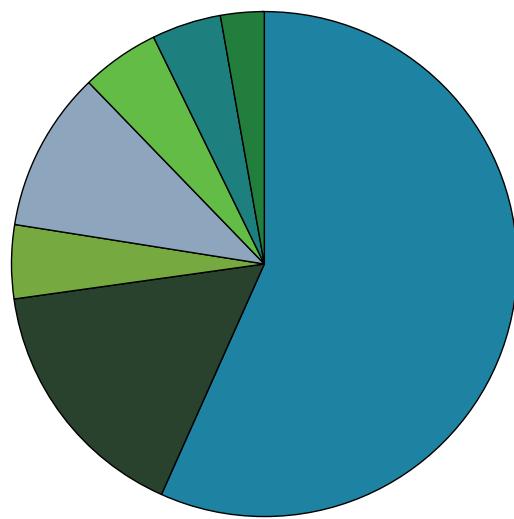
Larches 15-20 cm dbh



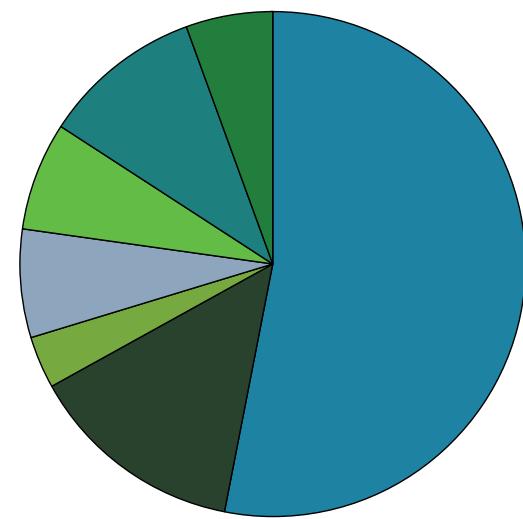
Larches 20-30 cm dbh



Larches 30-40 cm dbh

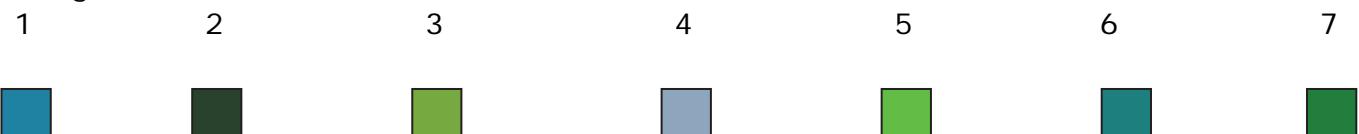


Larches 40+ cm dbh



## Legend

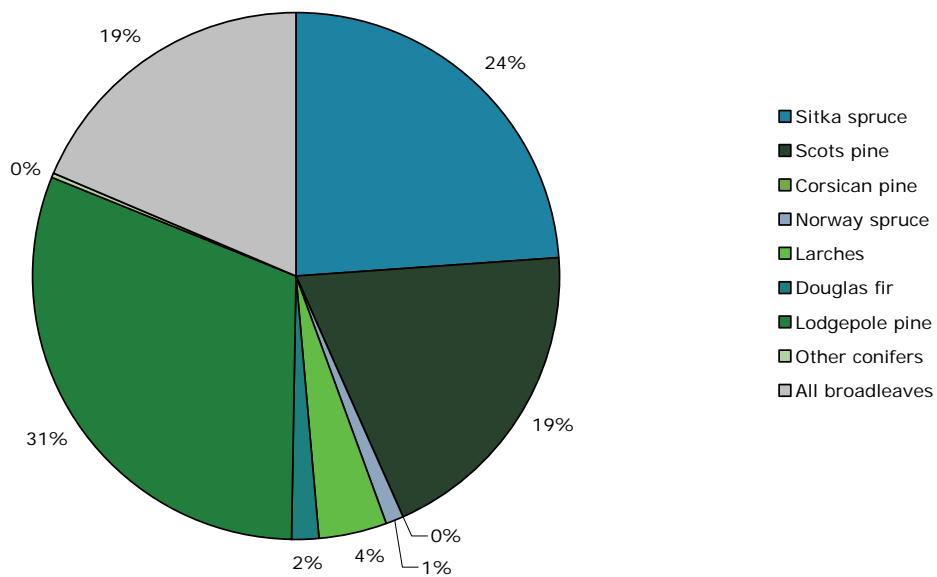
Straightness scores



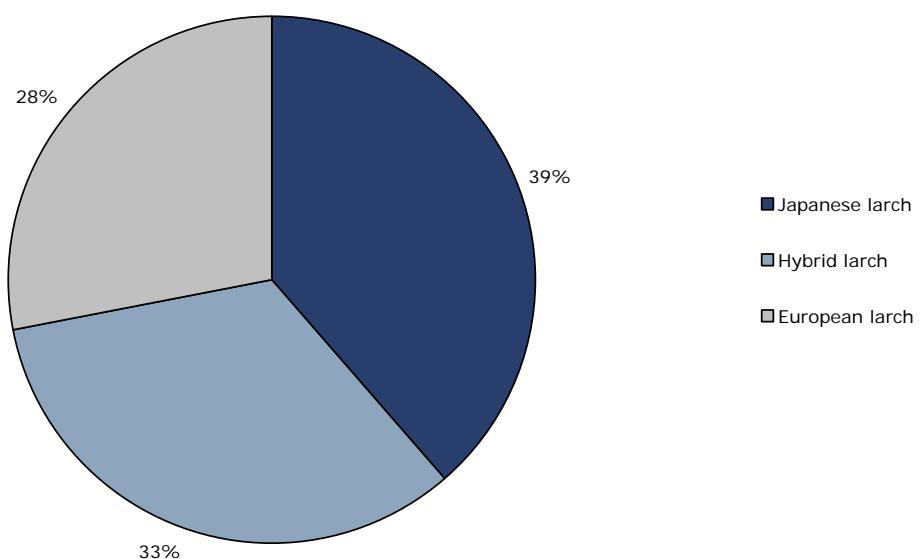
## North Scotland

2011 Stocked area at 31 March 2011

**Figure 10** Species composition (by stocked area) – North Scotland



**Figure 11** Larch species composition (by stocked area) – North Scotland



# NFI Provisional Report

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**Table 10** Stocked area by principal species – North Scotland

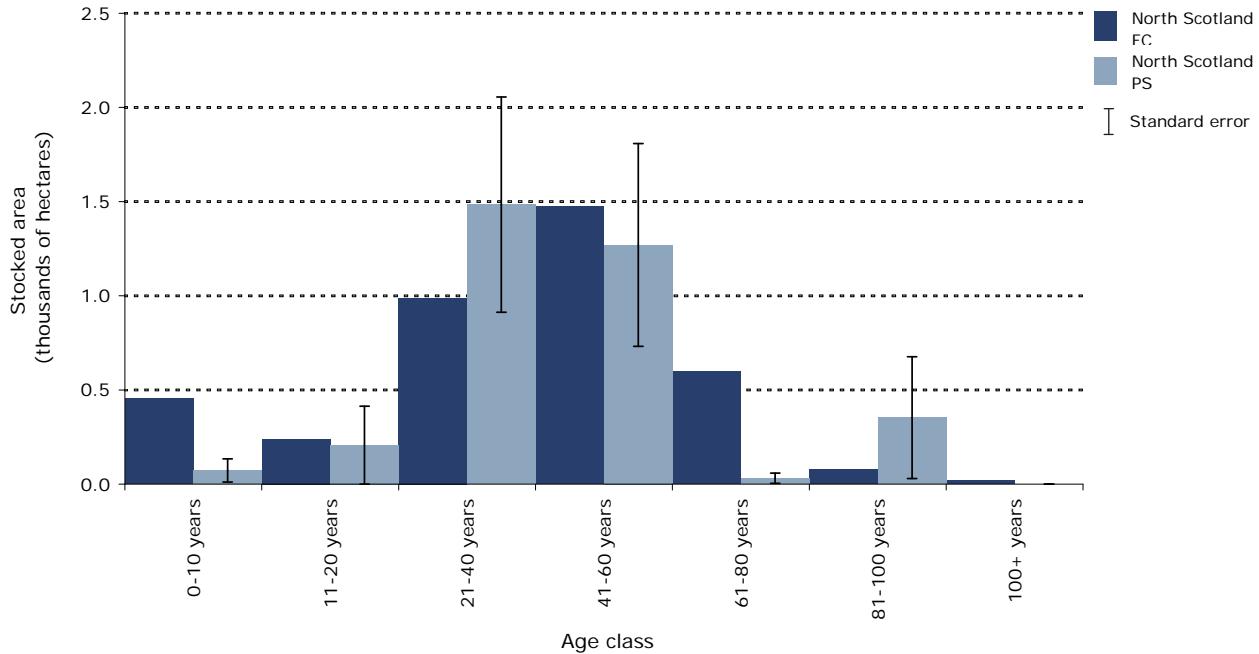
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>North Scotland</b>				
<b>All conifers</b>	<b>65.0</b>	<b>83.7</b>	<b>9</b>	<b>148.7</b>
Sitka spruce	16.4	27.4	8	<b>43.8</b>
Scots pine	17.4	17.6	12	<b>35.0</b>
Corsican pine	0.0	0.2	108	<b>0.3</b>
Norway spruce	1.1	1.0	50	<b>2.1</b>
Larches	3.8	3.4	25	<b>7.3</b>
Douglas fir	1.8	1.4	40	<b>3.2</b>
Lodgepole pine	23.8	32.4	24	<b>56.2</b>
Other conifers	0.6	0.0	-	<b>0.6</b>
<b>All broadleaves</b>	<b>4.3</b>	<b>29.6</b>	<b>6</b>	<b>33.9</b>
Oak	0.1	1.2	55	<b>1.3</b>
Beech	0.0	0.8	60	<b>0.8</b>
Sycamore	0.0	0.5	79	<b>0.5</b>
Ash	0.0	1.1	45	<b>1.1</b>
Birch	2.7	18.9	8	<b>21.6</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.0	0.9	72	<b>0.9</b>
Hawthorn	0.0	0.0	-	<b>0.0</b>
Alder	0.1	2.8	36	<b>2.9</b>
Willow	0.0	0.6	41	<b>0.6</b>
Other broadleaves	1.3	2.9	25	<b>4.2</b>
<b>All species</b>	<b>69.3</b>	<b>113.2</b>	<b>7</b>	<b>182.5</b>

**Table 11** Stocked area of larches – North Scotland

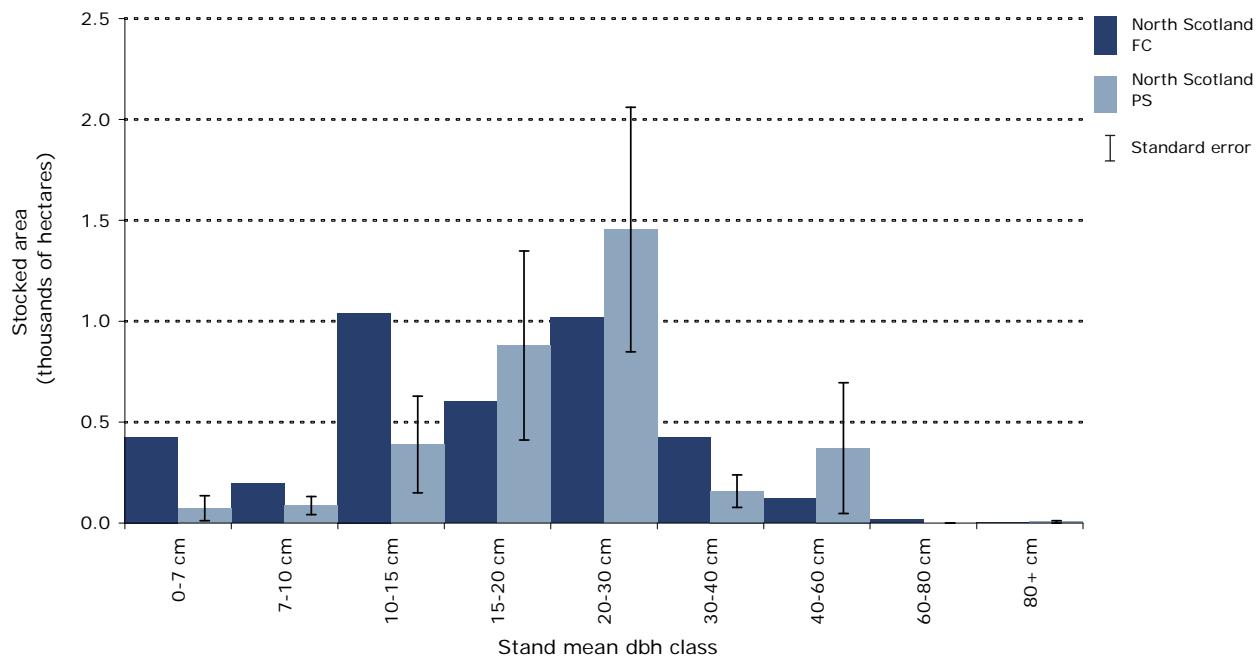
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>North Scotland</b>				
<b>Larches</b>	<b>3.8</b>	<b>3.4</b>	<b>25</b>	<b>7.3</b>
Japanese larch	2.2	0.6	64	<b>2.8</b>
Hybrid larch	0.9	1.5	34	<b>2.4</b>
European larch	0.8	1.3	47	<b>2.0</b>
Other larches	0.0	0.0	-	<b>0.0</b>

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**Figure 12** Stocked area of larches by age class – North Scotland



**Figure 13** Stocked area of larches by stand mean dbh class – North Scotland



# NFI Provisional Report

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**Table 12** Stocked area of larches by age class – North Scotland

Age class (years)	FC	Private sector	Total	
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	0.5	0.1	84	<b>0.5</b>
11-20	0.2	0.2	103	<b>0.4</b>
21-40	1.0	1.5	38	<b>2.5</b>
41-60	1.5	1.3	42	<b>2.7</b>
61-80	0.6	0.0	84	<b>0.6</b>
81-100	0.1	0.4	92	<b>0.4</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>3.8</b>	<b>3.4</b>	<b>25</b>	<b>7.3</b>
<b>Japanese larch</b>				
0-10	0.2	0.0	-	<b>0.2</b>
11-20	0.1	0.0	-	<b>0.1</b>
21-40	0.5	0.3	108	<b>0.7</b>
41-60	1.0	0.4	78	<b>1.3</b>
61-80	0.4	0.0	-	<b>0.4</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>2.2</b>	<b>0.6</b>	<b>64</b>	<b>2.8</b>
<b>Hybrid larch</b>				
0-10	0.1	0.1	84	<b>0.2</b>
11-20	0.2	0.2	103	<b>0.4</b>
21-40	0.5	0.6	49	<b>1.1</b>
41-60	0.2	0.2	41	<b>0.4</b>
61-80	0.0	0.0	84	<b>0.0</b>
81-100	0.0	0.4	92	<b>0.4</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.9</b>	<b>1.5</b>	<b>34</b>	<b>2.4</b>
<b>European larch</b>				
0-10	0.1	0.0	-	<b>0.1</b>
11-20	0.0	0.0	-	<b>0.0</b>
21-40	0.1	0.6	67	<b>0.6</b>
41-60	0.3	0.7	66	<b>1.0</b>
61-80	0.2	0.0	-	<b>0.2</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.8</b>	<b>1.3</b>	<b>47</b>	<b>2.0</b>

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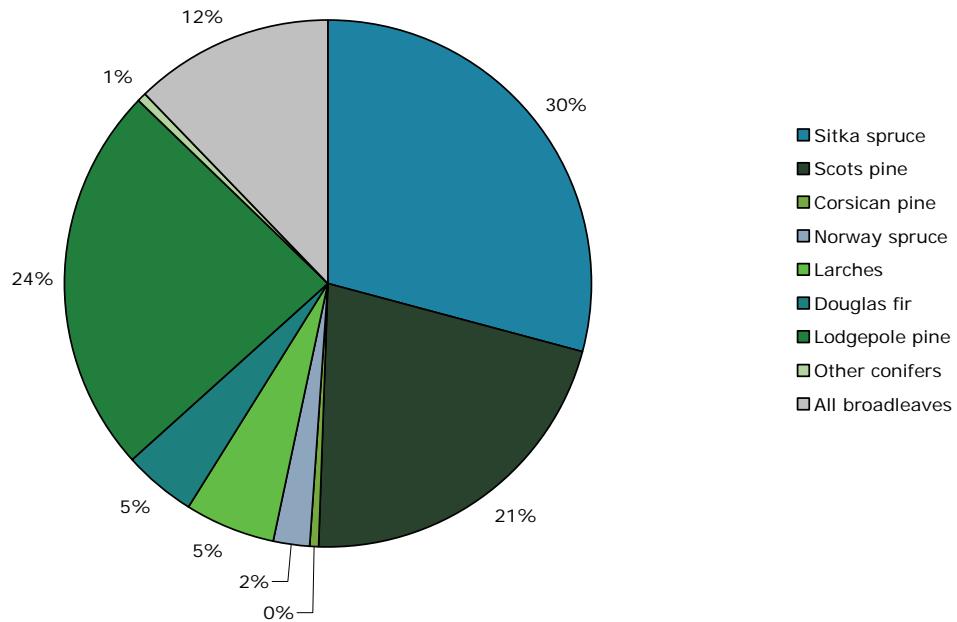
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**Table 13** Stocked area of larches by stand mean dbh class – North Scotland

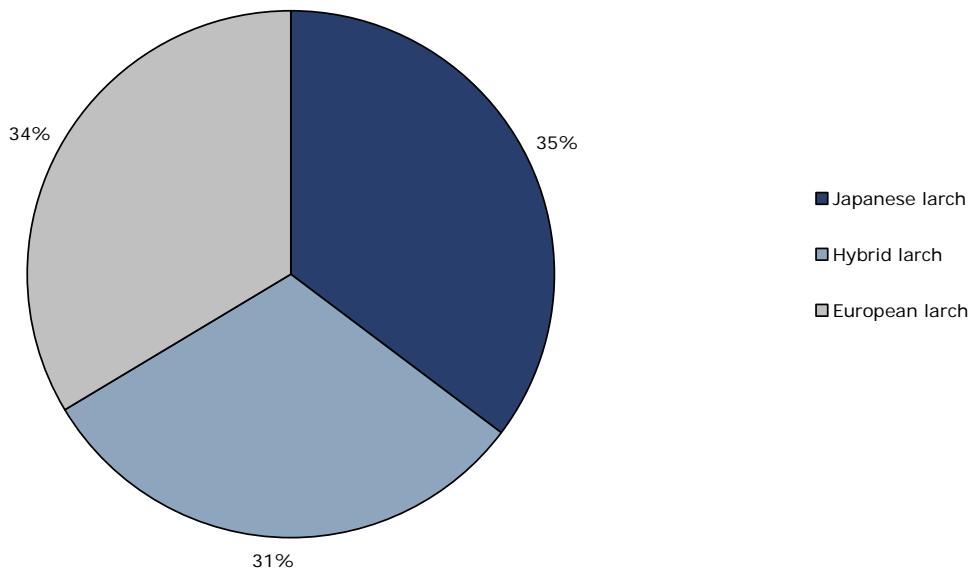
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	0.4	0.1	84	<b>0.5</b>
7-10	0.2	0.1	52	<b>0.3</b>
10-15	1.0	0.4	62	<b>1.4</b>
15-20	0.6	0.9	53	<b>1.5</b>
20-30	1.0	1.5	42	<b>2.5</b>
30-40	0.4	0.2	51	<b>0.6</b>
40-60	0.1	0.4	87	<b>0.5</b>
60-80	0.0	0.0	0	<b>0.0</b>
80+	0.0	0.0	93	<b>0.0</b>
<b>Total</b>	<b>3.8</b>	<b>3.4</b>	<b>25</b>	<b>7.3</b>
<b>Japanese larch</b>				
0-7	0.2	0.0	-	<b>0.2</b>
7-10	0.1	0.0	-	<b>0.1</b>
10-15	0.5	0.0	-	<b>0.5</b>
15-20	0.3	0.4	78	<b>0.7</b>
20-30	0.6	0.3	108	<b>0.9</b>
30-40	0.3	0.0	-	<b>0.3</b>
40-60	0.1	0.0	-	<b>0.1</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>2.2</b>	<b>0.6</b>	<b>64</b>	<b>2.8</b>
<b>Hybrid larch</b>				
0-7	0.1	0.1	84	<b>0.2</b>
7-10	0.1	0.1	52	<b>0.2</b>
10-15	0.5	0.4	67	<b>0.8</b>
15-20	0.1	0.1	71	<b>0.2</b>
20-30	0.1	0.5	55	<b>0.7</b>
30-40	0.0	0.0	95	<b>0.1</b>
40-60	0.0	0.4	87	<b>0.4</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	93	<b>0.0</b>
<b>Total</b>	<b>0.9</b>	<b>1.5</b>	<b>34</b>	<b>2.4</b>
<b>European larch</b>				
0-7	0.1	0.0	-	<b>0.1</b>
7-10	0.0	0.0	-	<b>0.0</b>
10-15	0.1	0.0	90	<b>0.1</b>
15-20	0.2	0.5	82	<b>0.6</b>
20-30	0.3	0.7	70	<b>0.9</b>
30-40	0.1	0.1	61	<b>0.2</b>
40-60	0.0	0.0	-	<b>0.0</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.8</b>	<b>1.3</b>	<b>47</b>	<b>2.0</b>

2011 Standing volume at 31 March 2011

**Figure 14** Species composition (by standing volume) – North Scotland



**Figure 15** Larch species composition (by standing volume) – North Scotland



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**Table 14** Standing volume by principal species – North Scotland

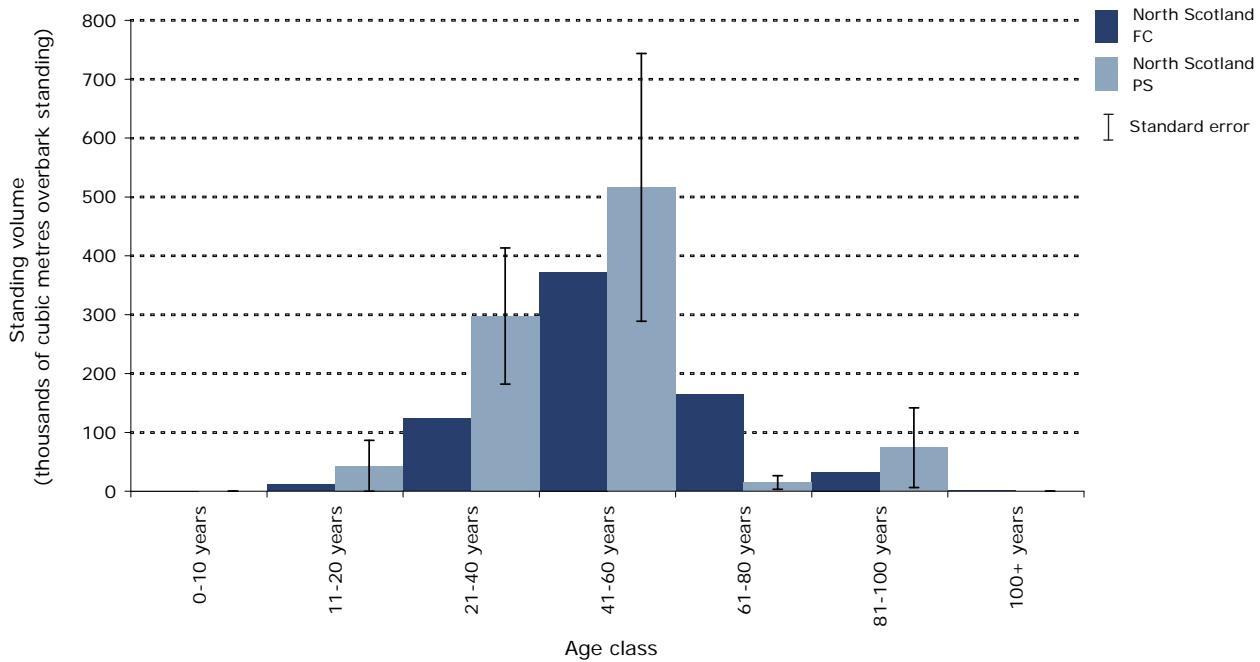
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>North Scotland</b>				
<b>All conifers</b>	<b>11,918</b>	<b>15,227</b>	<b>6</b>	<b>27,145</b>
Sitka spruce	2,966	6,064	12	<b>9,030</b>
Scots pine	3,482	3,129	20	<b>6,611</b>
Corsican pine	9	128	108	<b>137</b>
Norway spruce	404	320	54	<b>723</b>
Larches	708	946	28	<b>1,654</b>
Douglas fir	569	861	44	<b>1,430</b>
Lodgepole pine	3,614	3,720	14	<b>7,334</b>
Other conifers	166	0	-	<b>166</b>
<b>All broadleaves</b>	<b>571</b>	<b>3,217</b>	<b>18</b>	<b>3,788</b>
Oak	30	54	63	<b>85</b>
Beech	9	755	67	<b>763</b>
Sycamore	1	56	91	<b>57</b>
Ash	1	62	61	<b>63</b>
Birch	447	1,769	13	<b>2,216</b>
Sweet chestnut	0	0	-	<b>0</b>
Hazel	7	51	63	<b>58</b>
Hawthorn	0	0	-	<b>0</b>
Alder	9	237	42	<b>246</b>
Willow	0	41	57	<b>41</b>
Other broadleaves	67	187	23	<b>255</b>
<b>All species</b>	<b>12,488</b>	<b>18,312</b>	<b>6</b>	<b>30,801</b>

**Table 15** Standing volume of larches – North Scotland

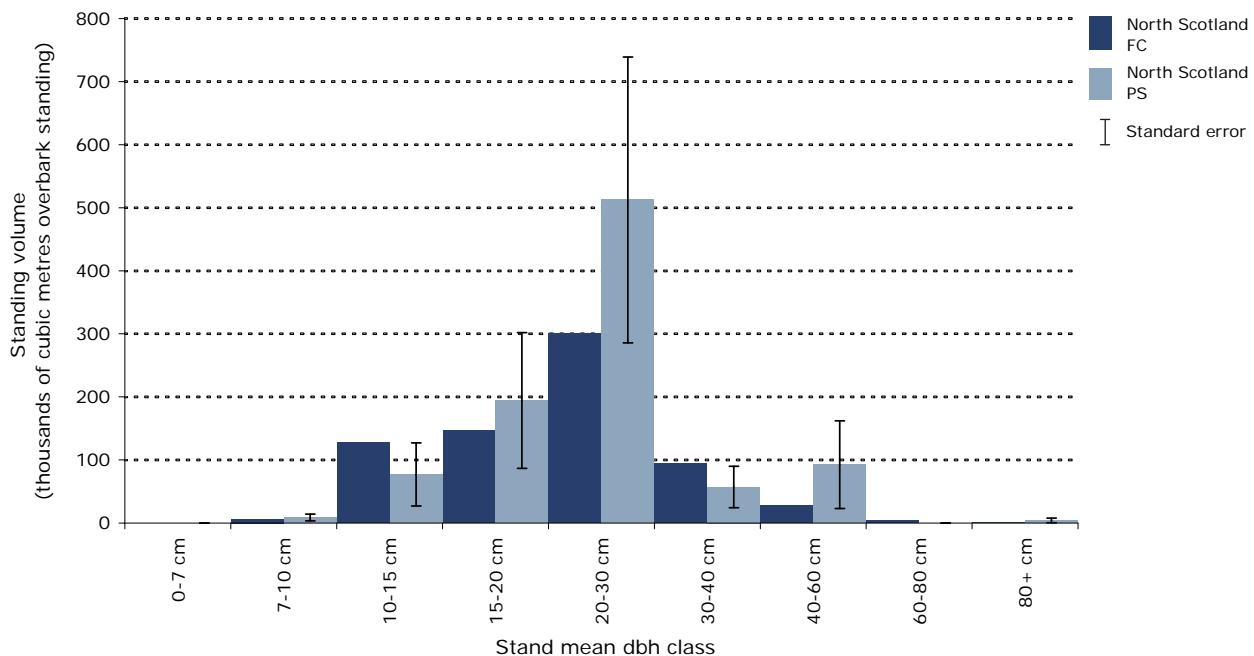
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>North Scotland</b>				
<b>Larches</b>	<b>708</b>	<b>946</b>	<b>28</b>	<b>1,654</b>
Japanese larch	425	156	68	<b>581</b>
Hybrid larch	118	397	33	<b>515</b>
European larch	164	393	53	<b>557</b>
Other larches	0	0	-	<b>0</b>

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**Figure 16** Standing volume of larches by age class – North Scotland



**Figure 17** Standing volume of larches by stand mean dbh class – North Scotland



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**Table 16** Standing volume of larches by age class – North Scotland

Age class (years)	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>Larches</b>				
0-10	0	0	-	<b>0</b>
11-20	12	43	107	<b>55</b>
21-40	124	298	39	<b>421</b>
41-60	373	516	44	<b>889</b>
61-80	165	15	78	<b>180</b>
81-100	33	74	92	<b>107</b>
100+	2	0	-	<b>2</b>
<b>Total</b>	<b>708</b>	<b>946</b>	<b>28</b>	<b>1,654</b>
<b>Japanese larch</b>				
0-10	0	0	-	<b>0</b>
11-20	4	0	-	<b>4</b>
21-40	60	42	108	<b>102</b>
41-60	237	114	84	<b>352</b>
61-80	104	0	-	<b>104</b>
81-100	20	0	-	<b>20</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>425</b>	<b>156</b>	<b>68</b>	<b>581</b>
<b>Hybrid larch</b>				
0-10	0	0	-	<b>0</b>
11-20	8	43	107	<b>51</b>
21-40	57	164	57	<b>221</b>
41-60	50	101	47	<b>151</b>
61-80	2	15	78	<b>16</b>
81-100	1	74	92	<b>75</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>118</b>	<b>397</b>	<b>33</b>	<b>515</b>
<b>European larch</b>				
0-10	0	0	-	<b>0</b>
11-20	0	0	-	<b>0</b>
21-40	7	92	56	<b>98</b>
41-60	85	301	67	<b>386</b>
61-80	59	0	-	<b>59</b>
81-100	11	0	-	<b>11</b>
100+	2	0	-	<b>2</b>
<b>Total</b>	<b>164</b>	<b>393</b>	<b>53</b>	<b>557</b>

# NFI Provisional Report

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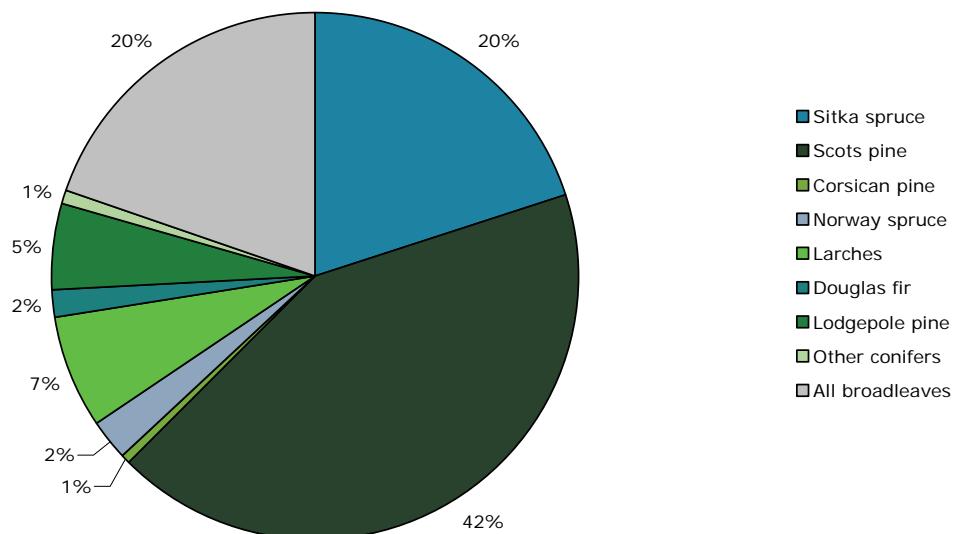
**Table 17** Standing volume of larches by stand mean dbh class – North Scotland

Mean stand DBH (cm)	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>Larches</b>				
0-7	0	0	-	<b>0</b>
7-10	6	9	63	<b>15</b>
10-15	128	77	65	<b>205</b>
15-20	146	194	55	<b>340</b>
20-30	300	512	44	<b>813</b>
30-40	94	57	57	<b>152</b>
40-60	28	92	75	<b>120</b>
60-80	4	0	-	<b>4</b>
80+	0	4	93	<b>4</b>
<b>Total</b>	<b>708</b>	<b>946</b>	<b>28</b>	<b>1,654</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	3	0	-	<b>3</b>
10-15	67	0	-	<b>67</b>
15-20	84	114	84	<b>199</b>
20-30	179	42	108	<b>221</b>
30-40	73	0	-	<b>73</b>
40-60	19	0	-	<b>19</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>425</b>	<b>156</b>	<b>68</b>	<b>581</b>
<b>Hybrid larch</b>				
0-7	0	0	-	<b>0</b>
7-10	3	9	63	<b>12</b>
10-15	53	66	74	<b>119</b>
15-20	21	16	75	<b>37</b>
20-30	33	190	52	<b>223</b>
30-40	4	20	98	<b>24</b>
40-60	4	92	75	<b>96</b>
60-80	0	0	-	<b>0</b>
80+	0	4	93	<b>4</b>
<b>Total</b>	<b>118</b>	<b>397</b>	<b>33</b>	<b>515</b>
<b>European larch</b>				
0-7	0	0	-	<b>0</b>
7-10	0	0	-	<b>0</b>
10-15	8	11	90	<b>19</b>
15-20	41	64	77	<b>105</b>
20-30	88	281	71	<b>369</b>
30-40	17	38	71	<b>55</b>
40-60	6	0	-	<b>6</b>
60-80	4	0	-	<b>4</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>164</b>	<b>393</b>	<b>53</b>	<b>557</b>

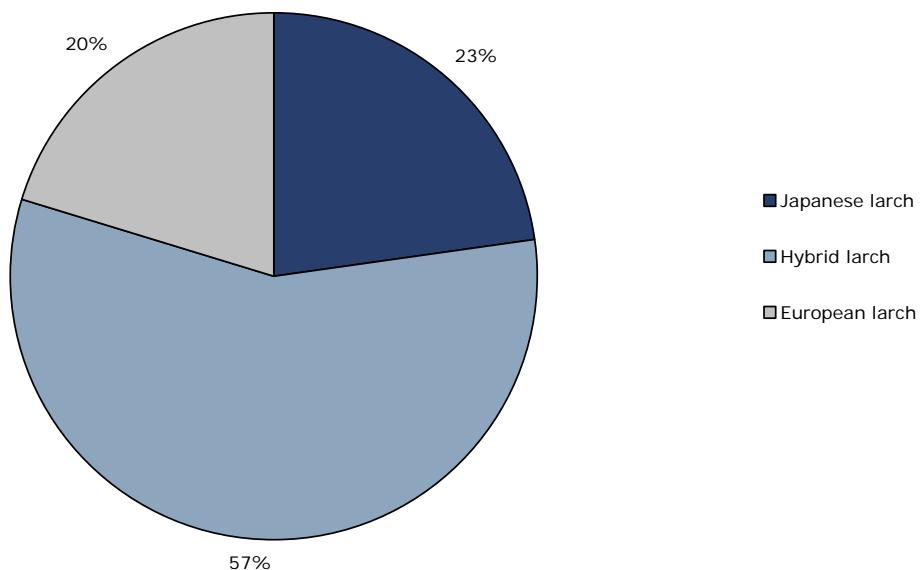
## North East Scotland

2011 Stocked area at 31 March 2011

**Figure 18** Species composition (by stocked area) – North East Scotland



**Figure 19** Larch species composition (by stocked area) – North East Scotland



# NFI Provisional Report

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**Table 18** Stocked area by principal species – North East Scotland

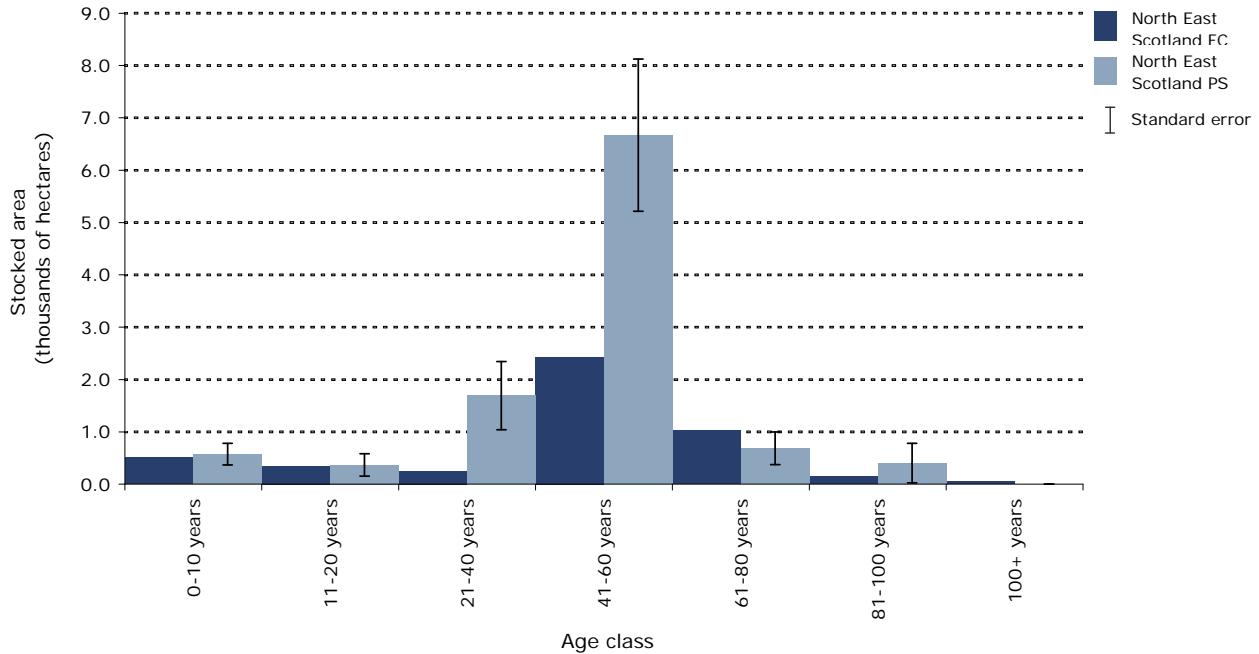
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>North East Scotland</b>				
<b>All conifers</b>	<b>49.8</b>	<b>121.7</b>	<b>2</b>	<b>171.5</b>
Sitka spruce	18.6	23.8	10	<b>42.4</b>
Scots pine	16.2	74.6	5	<b>90.8</b>
Corsican pine	1.0	0.1	108	<b>1.1</b>
Norway spruce	2.0	3.2	29	<b>5.2</b>
Larches	4.8	10.4	16	<b>15.2</b>
Douglas fir	1.2	2.2	32	<b>3.4</b>
Lodgepole pine	5.5	5.6	23	<b>11.1</b>
Other conifers	0.5	1.5	39	<b>2.1</b>
<b>All broadleaves</b>	<b>2.7</b>	<b>39.1</b>	<b>6</b>	<b>41.8</b>
Oak	0.1	2.5	40	<b>2.6</b>
Beech	0.1	2.0	44	<b>2.1</b>
Sycamore	0.0	1.4	41	<b>1.4</b>
Ash	0.0	0.2	42	<b>0.3</b>
Birch	0.9	26.1	8	<b>27.0</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.0	0.4	73	<b>0.5</b>
Hawthorn	0.0	0.0	52	<b>0.0</b>
Alder	0.1	0.7	45	<b>0.7</b>
Willow	0.0	0.6	42	<b>0.6</b>
Other broadleaves	1.4	5.0	17	<b>6.5</b>
<b>All species</b>	<b>52.5</b>	<b>161.1</b>	<b>2</b>	<b>213.6</b>

**Table 19** Stocked area of larches – North East Scotland

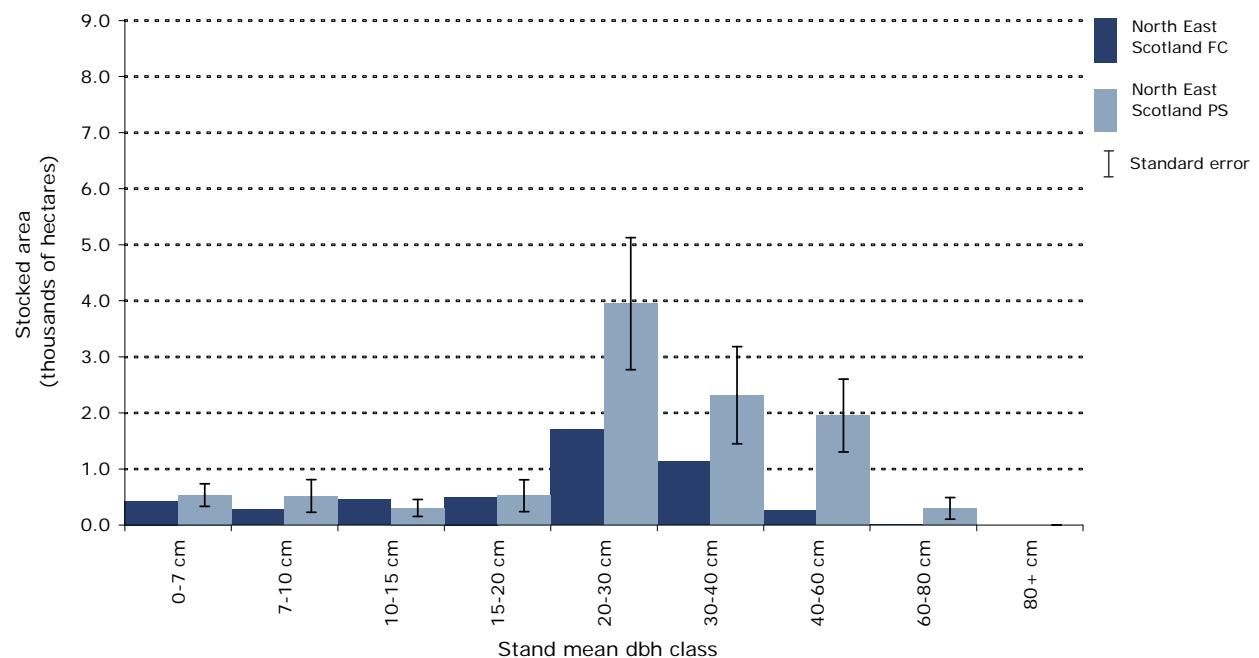
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>North East Scotland</b>				
<b>Larches</b>	<b>4.8</b>	<b>10.4</b>	<b>16</b>	<b>15.2</b>
Japanese larch	2.7	0.8	63	<b>3.4</b>
Hybrid larch	1.3	7.4	18	<b>8.6</b>
European larch	0.8	2.3	39	<b>3.1</b>
Other larches	0.0	0.0	-	<b>0.0</b>

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**Figure 20** Stocked area of larches by age class – North East Scotland



**Figure 21** Stocked area of larches by stand mean dbh class – North East Scotland



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**Table 20** Stocked area of larches by age class – North East Scotland

Age class (years)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	0.5	0.6	36	<b>1.1</b>
11-20	0.4	0.4	58	<b>0.7</b>
21-40	0.3	1.7	39	<b>1.9</b>
41-60	2.4	6.7	22	<b>9.1</b>
61-80	1.0	0.7	45	<b>1.7</b>
81-100	0.1	0.4	94	<b>0.5</b>
100+	0.1	0.0	-	<b>0.1</b>
<b>Total</b>	<b>4.8</b>	<b>10.4</b>	<b>16</b>	<b>15.2</b>
<b>Japanese larch</b>				
0-10	0.1	0.0	-	<b>0.1</b>
11-20	0.1	0.0	-	<b>0.1</b>
21-40	0.1	0.0	-	<b>0.1</b>
41-60	1.5	0.4	74	<b>2.0</b>
61-80	0.7	0.0	-	<b>0.7</b>
81-100	0.0	0.3	108	<b>0.4</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>2.7</b>	<b>0.8</b>	<b>63</b>	<b>3.4</b>
<b>Hybrid larch</b>				
0-10	0.3	0.6	36	<b>0.9</b>
11-20	0.2	0.4	60	<b>0.6</b>
21-40	0.1	1.3	43	<b>1.5</b>
41-60	0.5	4.6	26	<b>5.1</b>
61-80	0.1	0.5	52	<b>0.5</b>
81-100	0.0	0.1	108	<b>0.1</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.3</b>	<b>7.4</b>	<b>18</b>	<b>8.6</b>
<b>European larch</b>				
0-10	0.1	0.0	-	<b>0.1</b>
11-20	0.0	0.0	108	<b>0.0</b>
21-40	0.0	0.4	86	<b>0.4</b>
41-60	0.4	1.7	48	<b>2.0</b>
61-80	0.2	0.2	89	<b>0.5</b>
81-100	0.1	0.0	-	<b>0.1</b>
100+	0.1	0.0	-	<b>0.1</b>
<b>Total</b>	<b>0.8</b>	<b>2.3</b>	<b>39</b>	<b>3.1</b>

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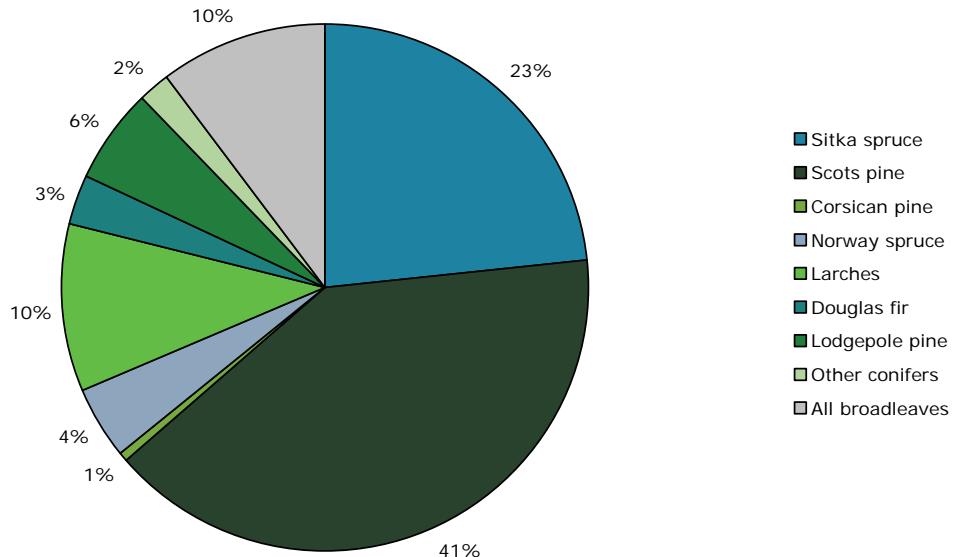
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**Table 21** Stocked area of larches by stand mean dbh class – North East Scotland

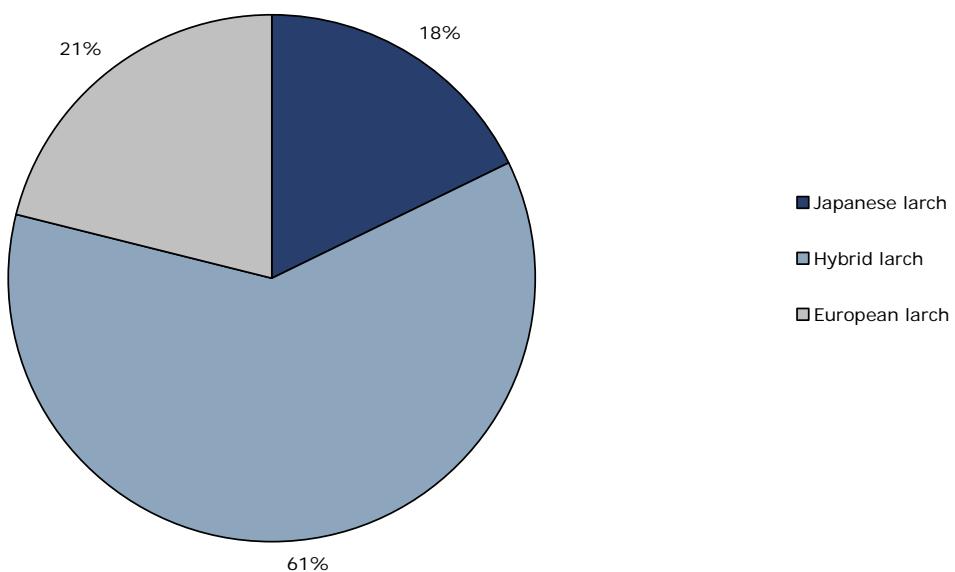
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	0.4	0.5	38	<b>1.0</b>
7-10	0.3	0.5	56	<b>0.8</b>
10-15	0.5	0.3	50	<b>0.8</b>
15-20	0.5	0.5	54	<b>1.0</b>
20-30	1.7	3.9	30	<b>5.6</b>
30-40	1.1	2.3	37	<b>3.5</b>
40-60	0.3	2.0	33	<b>2.2</b>
60-80	0.0	0.3	65	<b>0.3</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>4.8</b>	<b>10.4</b>	<b>16</b>	<b>15.2</b>
<b>Japanese larch</b>				
0-7	0.1	0.0	-	<b>0.1</b>
7-10	0.1	0.0	-	<b>0.1</b>
10-15	0.2	0.0	-	<b>0.2</b>
15-20	0.2	0.0	-	<b>0.2</b>
20-30	1.0	0.7	65	<b>1.8</b>
30-40	0.8	0.0	-	<b>0.8</b>
40-60	0.2	0.0	108	<b>0.2</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>2.7</b>	<b>0.8</b>	<b>63</b>	<b>3.4</b>
<b>Hybrid larch</b>				
0-7	0.2	0.5	38	<b>0.8</b>
7-10	0.2	0.5	57	<b>0.7</b>
10-15	0.2	0.3	52	<b>0.5</b>
15-20	0.1	0.5	54	<b>0.7</b>
20-30	0.3	2.4	40	<b>2.7</b>
30-40	0.2	1.2	46	<b>1.4</b>
40-60	0.1	1.6	37	<b>1.6</b>
60-80	0.0	0.3	75	<b>0.3</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.3</b>	<b>7.4</b>	<b>18</b>	<b>8.6</b>
<b>European larch</b>				
0-7	0.1	0.0	-	<b>0.1</b>
7-10	0.0	0.0	108	<b>0.0</b>
10-15	0.1	0.0	108	<b>0.1</b>
15-20	0.1	0.0	-	<b>0.1</b>
20-30	0.4	0.8	63	<b>1.2</b>
30-40	0.1	1.1	62	<b>1.2</b>
40-60	0.0	0.4	85	<b>0.4</b>
60-80	0.0	0.0	85	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.8</b>	<b>2.3</b>	<b>39</b>	<b>3.1</b>

2011 Standing volume at 31 March 2011

**Figure 22** Species composition (by standing volume) – North East Scotland



**Figure 23** Larch species composition (by standing volume) – North East Scotland



# NFI Provisional Report

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**Table 22** Standing volume by principal species – North East Scotland

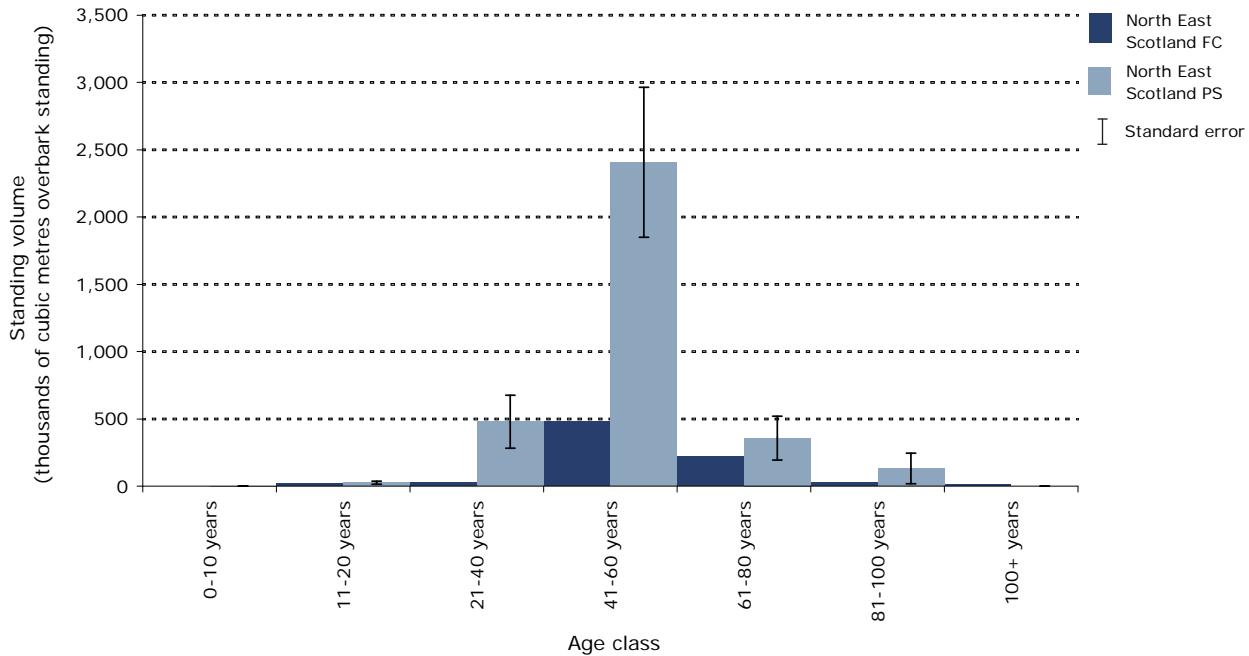
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>North East Scotland</b>				
<b>All conifers</b>	<b>9,703</b>	<b>26,906</b>	<b>5</b>	<b>36,609</b>
Sitka spruce	3,576	5,926	15	9,503
Scots pine	3,023	13,346	7	16,369
Corsican pine	209	0	-	209
Norway spruce	576	1,241	32	1,816
Larches	787	3,402	18	4,189
Douglas fir	275	982	38	1,257
Lodgepole pine	1,117	1,259	28	2,376
Other conifers	140	674	70	813
<b>All broadleaves</b>	<b>221</b>	<b>3,931</b>	<b>11</b>	<b>4,152</b>
Oak	8	560	61	568
Beech	29	451	42	480
Sycamore	4	182	55	186
Ash	2	10	90	12
Birch	78	2,321	10	2,399
Sweet chestnut	0	0	-	0
Hazel	0	22	91	22
Hawthorn	0	0	58	0
Alder	11	30	51	41
Willow	0	58	53	58
Other broadleaves	89	269	25	358
<b>All species</b>	<b>9,924</b>	<b>30,763</b>	<b>4</b>	<b>40,687</b>

**Table 23** Standing volume of larches – North East Scotland

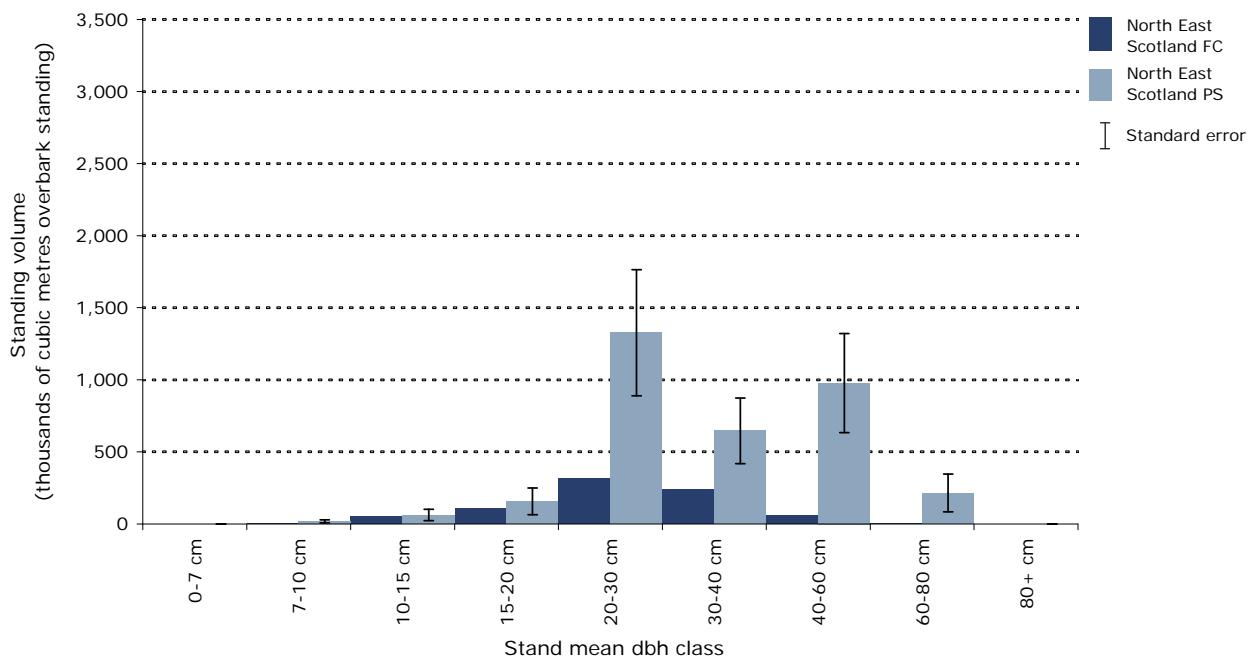
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>North East Scotland</b>				
<b>Larches</b>	<b>787</b>	<b>3,402</b>	<b>18</b>	<b>4,189</b>
Japanese larch	499	245	66	744
Hybrid larch	151	2,406	22	2,557
European larch	137	750	35	888
Other larches	0	0	-	0

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**Figure 24** Standing volume of larches by age class – North East Scotland



**Figure 25** Standing volume of larches by stand mean dbh class – North East Scotland



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**Table 24** Standing volume of larches by age class – North East Scotland

Age class (years)	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>Larches</b>				
0-10	1	1	51	<b>2</b>
11-20	21	26	46	<b>47</b>
21-40	28	479	41	<b>507</b>
41-60	478	2,407	23	<b>2,884</b>
61-80	220	357	46	<b>578</b>
81-100	27	132	86	<b>159</b>
100+	13	0	-	<b>13</b>
<b>Total</b>	<b>787</b>	<b>3,402</b>	<b>18</b>	<b>4,189</b>
<b>Japanese larch</b>				
0-10	0	0	-	<b>0</b>
11-20	7	0	-	<b>7</b>
21-40	14	0	-	<b>14</b>
41-60	307	145	83	<b>451</b>
61-80	163	0	-	<b>163</b>
81-100	9	101	108	<b>109</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>499</b>	<b>245</b>	<b>66</b>	<b>744</b>
<b>Hybrid larch</b>				
0-10	1	1	51	<b>1</b>
11-20	14	25	46	<b>39</b>
21-40	13	322	43	<b>335</b>
41-60	106	1,790	28	<b>1,896</b>
61-80	16	236	60	<b>252</b>
81-100	2	31	108	<b>33</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>151</b>	<b>2,406</b>	<b>22</b>	<b>2,557</b>
<b>European larch</b>				
0-10	0	0	0	<b>0</b>
11-20	0	0	108	<b>1</b>
21-40	2	157	89	<b>159</b>
41-60	65	472	45	<b>537</b>
61-80	42	121	68	<b>163</b>
81-100	16	0	-	<b>16</b>
100+	12	0	-	<b>12</b>
<b>Total</b>	<b>137</b>	<b>750</b>	<b>35</b>	<b>888</b>

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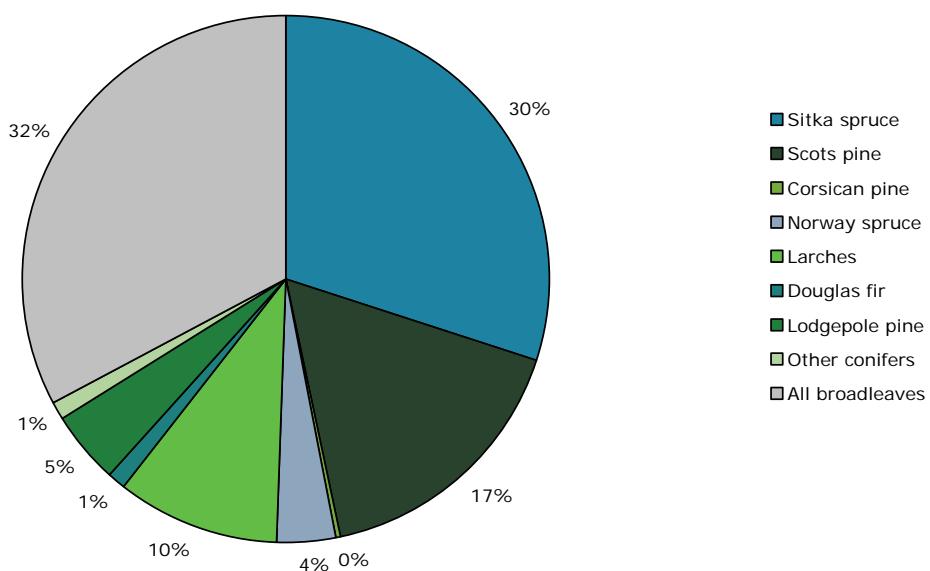
**Table 25** Standing volume of larches by stand mean dbh class – North East Scotland

Mean stand DBH (cm)	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>Larches</b>				
0-7	0	0	79	<b>0</b>
7-10	7	18	59	<b>25</b>
10-15	54	62	64	<b>116</b>
15-20	106	157	59	<b>263</b>
20-30	318	1,327	33	<b>1,645</b>
30-40	239	646	35	<b>885</b>
40-60	62	978	35	<b>1,040</b>
60-80	1	215	61	<b>216</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>787</b>	<b>3,402</b>	<b>18</b>	<b>4,189</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	3	0	-	<b>3</b>
10-15	25	0	-	<b>25</b>
15-20	52	0	-	<b>52</b>
20-30	203	235	68	<b>439</b>
30-40	169	0	-	<b>169</b>
40-60	46	10	108	<b>56</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>499</b>	<b>245</b>	<b>66</b>	<b>744</b>
<b>Hybrid larch</b>				
0-7	0	0	79	<b>0</b>
7-10	3	18	61	<b>21</b>
10-15	21	61	65	<b>83</b>
15-20	28	157	59	<b>185</b>
20-30	43	910	44	<b>954</b>
30-40	39	331	40	<b>371</b>
40-60	15	798	39	<b>813</b>
60-80	0	131	84	<b>131</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>151</b>	<b>2,406</b>	<b>22</b>	<b>2,557</b>
<b>European larch</b>				
0-7	0	0	-	<b>0</b>
7-10	1	0	108	<b>1</b>
10-15	8	1	108	<b>8</b>
15-20	26	0	-	<b>26</b>
20-30	71	181	56	<b>252</b>
30-40	31	314	60	<b>345</b>
40-60	1	170	83	<b>171</b>
60-80	0	84	85	<b>84</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>137</b>	<b>750</b>	<b>35</b>	<b>888</b>

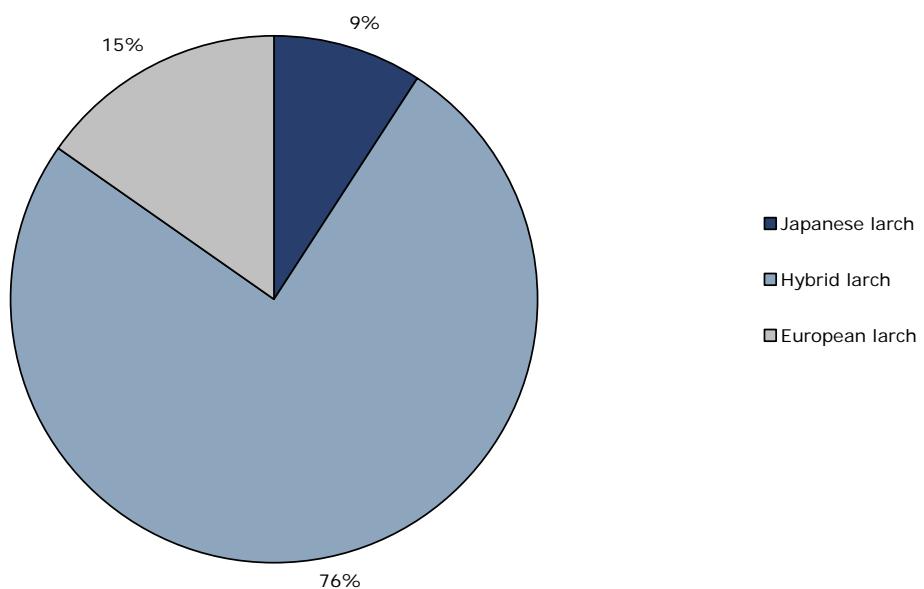
## East Scotland

2011 Stocked area at 31 March 2011

**Figure 26** Species composition (by stocked area) – East Scotland



**Figure 27** Larch species composition (by stocked area) – East Scotland



# NFI Provisional Report

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**Table 26** Stocked area by principal species – East Scotland

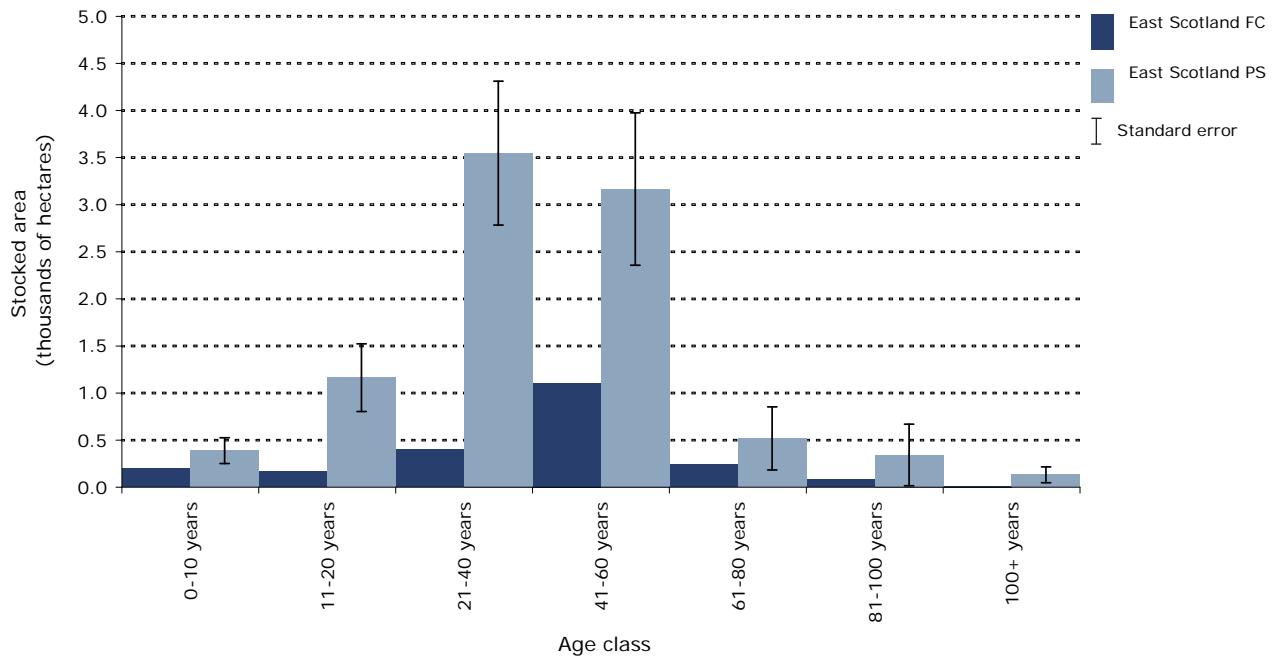
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>East Scotland</b>				
<b>All conifers</b>	<b>27.9</b>	<b>49.9</b>	<b>3</b>	<b>77.8</b>
Sitka spruce	12.3	22.3	7	<b>34.6</b>
Scots pine	6.4	13.1	11	<b>19.4</b>
Corsican pine	0.4	0.0	-	<b>0.4</b>
Norway spruce	1.3	2.9	25	<b>4.2</b>
Larches	2.2	9.3	13	<b>11.5</b>
Douglas fir	0.6	0.5	33	<b>1.1</b>
Lodgepole pine	4.3	0.9	44	<b>5.2</b>
Other conifers	0.3	0.8	36	<b>1.2</b>
<b>All broadleaves</b>	<b>1.6</b>	<b>36.5</b>	<b>4</b>	<b>38.1</b>
Oak	0.2	3.7	22	<b>3.8</b>
Beech	0.1	2.9	22	<b>3.1</b>
Sycamore	0.1	3.6	18	<b>3.7</b>
Ash	0.1	1.7	25	<b>1.8</b>
Birch	0.5	15.7	9	<b>16.2</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.0	0.5	29	<b>0.5</b>
Hawthorn	0.0	0.9	37	<b>0.9</b>
Alder	0.0	1.2	33	<b>1.3</b>
Willow	0.0	3.0	19	<b>3.0</b>
Other broadleaves	0.6	3.2	16	<b>3.8</b>
<b>All species</b>	<b>29.5</b>	<b>86.2</b>	<b>2</b>	<b>115.7</b>

**Table 27** Stocked area of larches – East Scotland

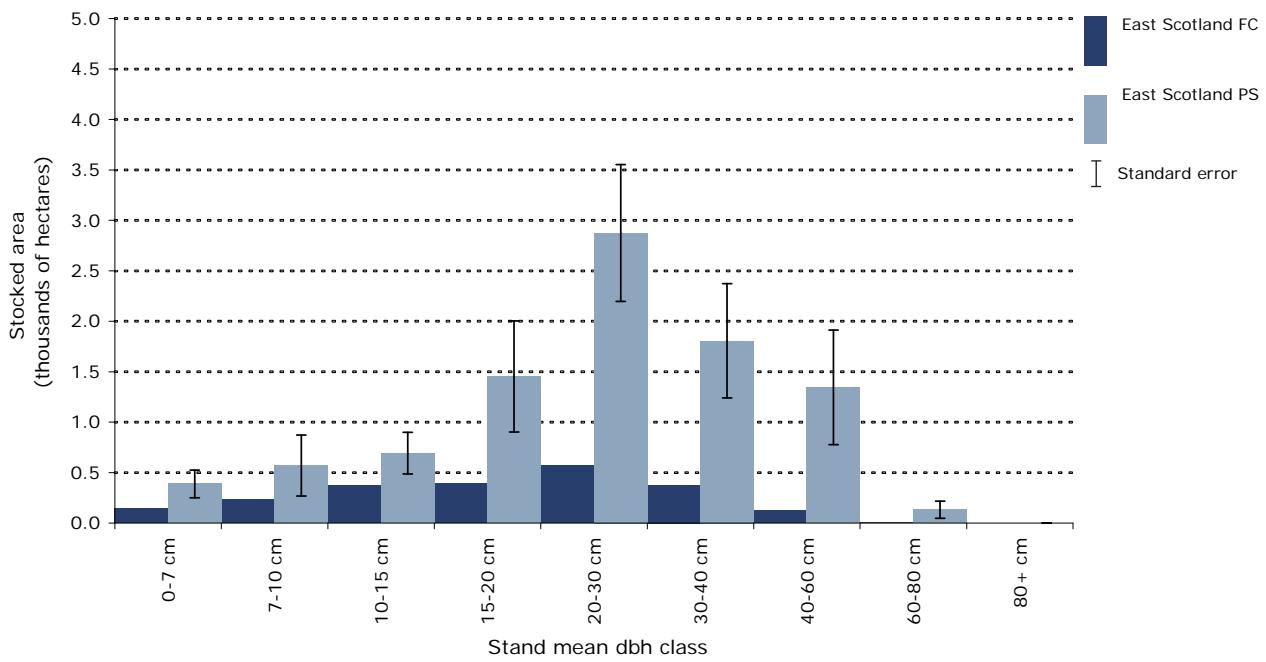
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>East Scotland</b>				
<b>Larches</b>	<b>2.2</b>	<b>9.3</b>	<b>13</b>	<b>11.5</b>
Japanese larch	0.9	0.2	93	<b>1.0</b>
Hybrid larch	0.7	8.0	14	<b>8.7</b>
European larch	0.6	1.1	42	<b>1.8</b>
Other larches	0.0	0.0	-	<b>0.0</b>

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**Figure 28** Stocked area of larches by age class – East Scotland



**Figure 29** Stocked area of larches by stand mean dbh class – East Scotland



# NFI Provisional Report

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**Table 28** Stocked area of larches by age class – East Scotland

Age class (years)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	0.2	0.4	35	<b>0.6</b>
11-20	0.2	1.2	31	<b>1.3</b>
21-40	0.4	3.5	22	<b>3.9</b>
41-60	1.1	3.2	26	<b>4.3</b>
61-80	0.2	0.5	65	<b>0.8</b>
81-100	0.1	0.3	95	<b>0.4</b>
100+	0.0	0.1	64	<b>0.1</b>
<b>Total</b>	<b>2.2</b>	<b>9.3</b>	<b>13</b>	<b>11.5</b>
<b>Japanese larch</b>				
0-10	0.0	0.0	-	<b>0.0</b>
11-20	0.0	0.0	-	<b>0.0</b>
21-40	0.2	0.0	-	<b>0.2</b>
41-60	0.5	0.1	101	<b>0.6</b>
61-80	0.1	0.0	102	<b>0.2</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.9</b>	<b>0.2</b>	<b>93</b>	<b>1.0</b>
<b>Hybrid larch</b>				
0-10	0.1	0.4	35	<b>0.4</b>
11-20	0.0	0.8	30	<b>0.9</b>
21-40	0.2	3.2	23	<b>3.4</b>
41-60	0.4	2.6	29	<b>3.0</b>
61-80	0.0	0.5	66	<b>0.5</b>
81-100	0.0	0.3	95	<b>0.4</b>
100+	0.0	0.1	64	<b>0.1</b>
<b>Total</b>	<b>0.7</b>	<b>8.0</b>	<b>14</b>	<b>8.7</b>
<b>European larch</b>				
0-10	0.1	0.0	-	<b>0.1</b>
11-20	0.1	0.3	79	<b>0.4</b>
21-40	0.0	0.3	67	<b>0.4</b>
41-60	0.2	0.4	70	<b>0.7</b>
61-80	0.1	0.0	-	<b>0.1</b>
81-100	0.1	0.0	-	<b>0.1</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.6</b>	<b>1.1</b>	<b>42</b>	<b>1.8</b>

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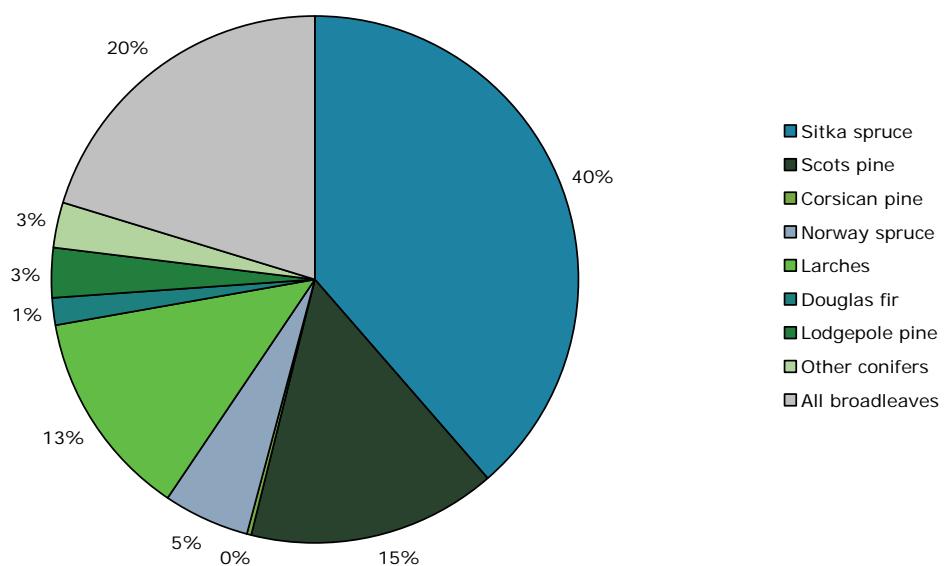
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**Table 29** Stocked area of larches by stand mean dbh class – East Scotland

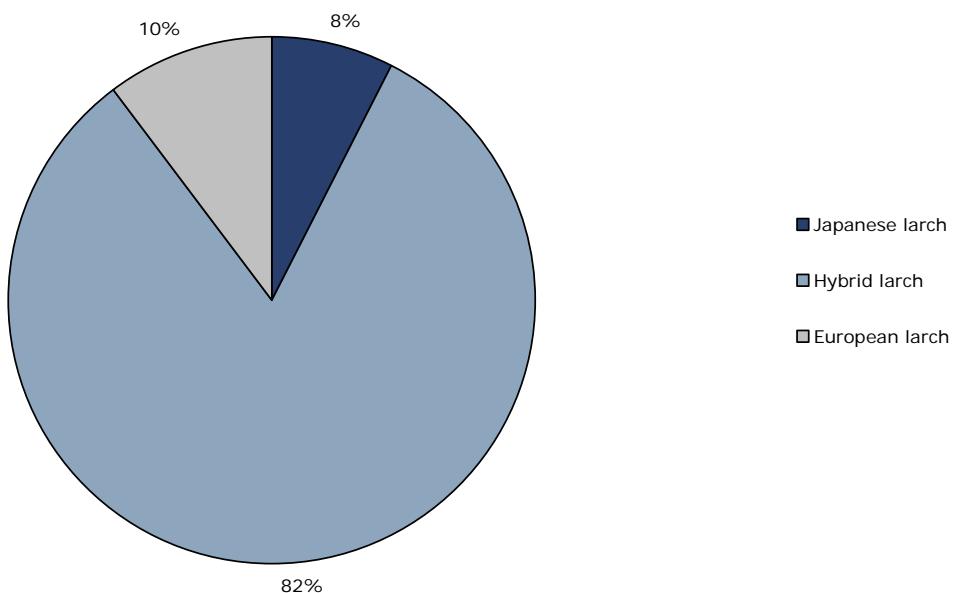
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	0.1	0.4	35	<b>0.5</b>
7-10	0.2	0.6	53	<b>0.8</b>
10-15	0.4	0.7	30	<b>1.1</b>
15-20	0.4	1.5	38	<b>1.8</b>
20-30	0.6	2.9	24	<b>3.4</b>
30-40	0.4	1.8	31	<b>2.2</b>
40-60	0.1	1.3	42	<b>1.5</b>
60-80	0.0	0.1	64	<b>0.1</b>
80+	0.0	0.0	0	<b>0.0</b>
<b>Total</b>	<b>2.2</b>	<b>9.3</b>	<b>13</b>	<b>11.5</b>
<b>Japanese larch</b>				
0-7	0.0	0.0	-	<b>0.0</b>
7-10	0.0	0.0	-	<b>0.0</b>
10-15	0.2	0.0	-	<b>0.2</b>
15-20	0.2	0.0	-	<b>0.2</b>
20-30	0.2	0.2	93	<b>0.4</b>
30-40	0.2	0.0	-	<b>0.2</b>
40-60	0.1	0.0	-	<b>0.1</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.9</b>	<b>0.2</b>	<b>93</b>	<b>1.0</b>
<b>Hybrid larch</b>				
0-7	0.0	0.4	35	<b>0.4</b>
7-10	0.1	0.2	65	<b>0.3</b>
10-15	0.2	0.6	31	<b>0.8</b>
15-20	0.1	1.2	42	<b>1.4</b>
20-30	0.2	2.7	25	<b>2.9</b>
30-40	0.1	1.4	34	<b>1.5</b>
40-60	0.0	1.3	44	<b>1.3</b>
60-80	0.0	0.1	64	<b>0.1</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.7</b>	<b>8.0</b>	<b>14</b>	<b>8.7</b>
<b>European larch</b>				
0-7	0.1	0.0	-	<b>0.1</b>
7-10	0.1	0.3	79	<b>0.5</b>
10-15	0.0	0.1	101	<b>0.1</b>
15-20	0.1	0.2	87	<b>0.3</b>
20-30	0.2	0.0	101	<b>0.2</b>
30-40	0.1	0.4	84	<b>0.4</b>
40-60	0.0	0.1	95	<b>0.1</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.6</b>	<b>1.1</b>	<b>42</b>	<b>1.8</b>

2011 Standing volume at 31 March 2011

**Figure 30** Species composition (by standing volume) – East Scotland



**Figure 31** Larch species composition (by standing volume) – East Scotland



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**Table 30** Standing volume by principal species – East Scotland

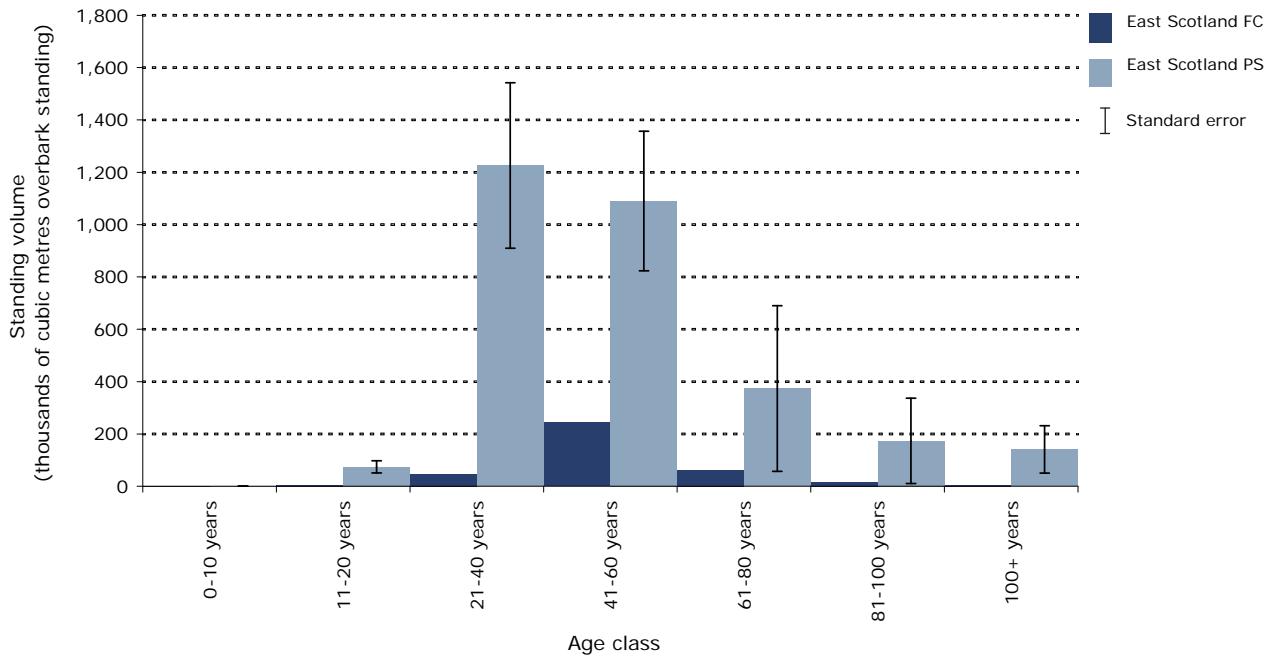
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>East Scotland</b>				
<b>All conifers</b>	<b>5,787</b>	<b>15,749</b>	<b>5</b>	<b>21,536</b>
Sitka spruce	2,723	7,659	11	10,382
Scots pine	1,223	2,929	14	4,153
Corsican pine	79	0	-	79
Norway spruce	432	978	22	1,410
Larches	379	3,079	17	3,459
Douglas fir	166	227	33	394
Lodgepole pine	666	189	41	854
Other conifers	119	636	44	755
<b>All broadleaves</b>	<b>173</b>	<b>5,287</b>	<b>10</b>	<b>5,460</b>
Oak	15	628	35	643
Beech	21	1,506	29	1,527
Sycamore	11	676	24	687
Ash	2	392	46	394
Birch	68	1,176	11	1,244
Sweet chestnut	0	0	-	0
Hazel	0	24	33	24
Hawthorn	0	40	72	40
Alder	3	443	55	446
Willow	0	172	28	172
Other broadleaves	53	406	37	459
<b>All species</b>	<b>5,960</b>	<b>20,941</b>	<b>5</b>	<b>26,902</b>

**Table 31** Standing volume of larches – East Scotland

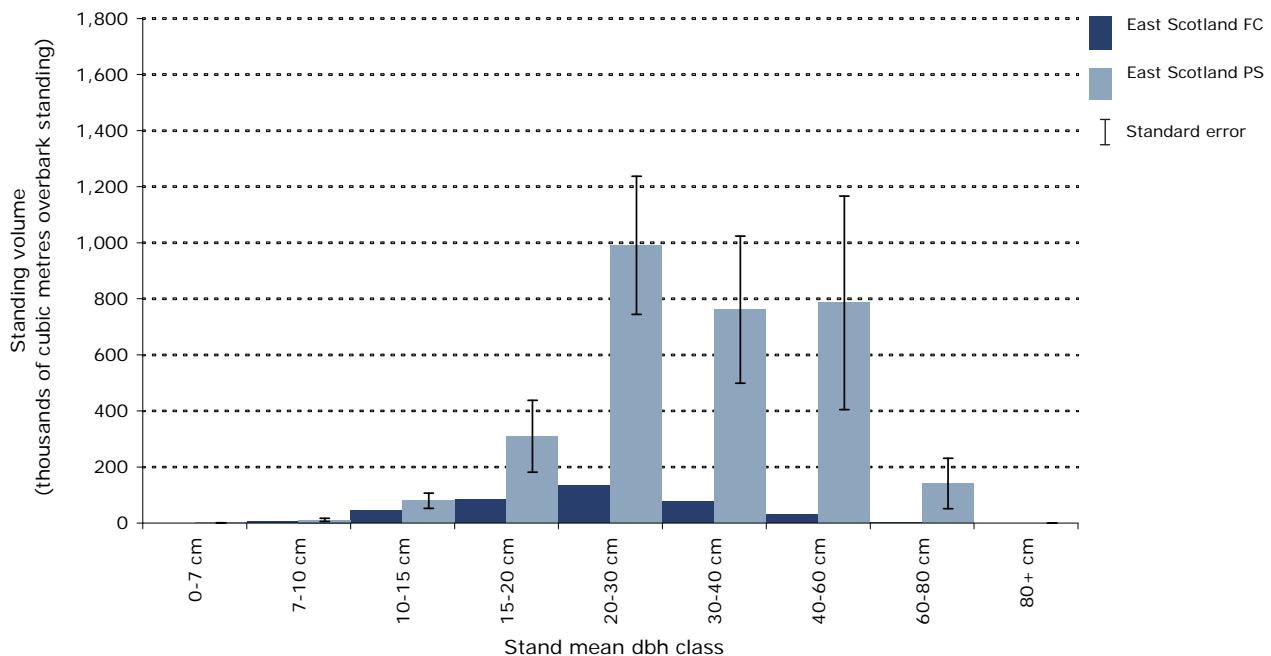
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>East Scotland</b>				
<b>Larches</b>	<b>379</b>	<b>3,079</b>	<b>17</b>	<b>3,459</b>
Japanese larch	179	81	98	259
Hybrid larch	114	2,732	18	2,846
European larch	86	265	52	351
Other larches	0	0	-	0

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**Figure 32** Standing volume of larches by age class – East Scotland



**Figure 33** Standing volume of larches by stand mean dbh class – East Scotland



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**Table 32** Standing volume of larches by age class – East Scotland

Age class (years)	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>Larches</b>				
0-10	0	1	70	<b>1</b>
11-20	6	74	31	<b>80</b>
21-40	46	1,226	26	<b>1,272</b>
41-60	244	1,090	24	<b>1,333</b>
61-80	62	373	85	<b>435</b>
81-100	17	174	94	<b>191</b>
100+	5	141	64	<b>146</b>
<b>Total</b>	<b>379</b>	<b>3,079</b>	<b>17</b>	<b>3,459</b>
<b>Japanese larch</b>				
0-10	0	0	-	<b>0</b>
11-20	1	0	-	<b>1</b>
21-40	21	0	-	<b>21</b>
41-60	116	78	101	<b>194</b>
61-80	39	3	102	<b>41</b>
81-100	3	0	-	<b>3</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>179</b>	<b>81</b>	<b>98</b>	<b>259</b>
<b>Hybrid larch</b>				
0-10	0	1	70	<b>1</b>
11-20	2	71	33	<b>74</b>
21-40	22	1,154	27	<b>1,177</b>
41-60	84	820	28	<b>904</b>
61-80	3	371	85	<b>374</b>
81-100	2	174	94	<b>176</b>
100+	0	141	64	<b>141</b>
<b>Total</b>	<b>114</b>	<b>2,732</b>	<b>18</b>	<b>2,846</b>
<b>European larch</b>				
0-10	0	0	-	<b>0</b>
11-20	2	3	79	<b>5</b>
21-40	3	72	65	<b>75</b>
41-60	44	190	65	<b>234</b>
61-80	20	0	-	<b>20</b>
81-100	12	0	-	<b>12</b>
100+	5	0	-	<b>5</b>
<b>Total</b>	<b>86</b>	<b>265</b>	<b>52</b>	<b>351</b>

# NFI Provisional Report

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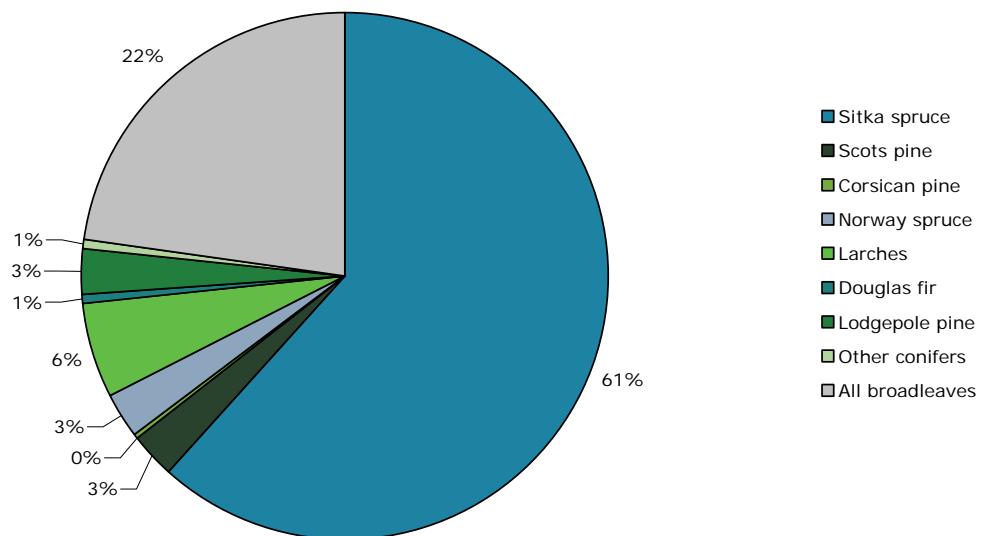
**Table 33** Standing volume of larches by stand mean dbh class – East Scotland

Mean stand DBH (cm)	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>Larches</b>				
0-7	0	1	70	<b>1</b>
7-10	5	11	53	<b>16</b>
10-15	46	79	34	<b>125</b>
15-20	85	309	42	<b>394</b>
20-30	135	991	25	<b>1,126</b>
30-40	78	762	34	<b>840</b>
40-60	30	785	48	<b>815</b>
60-80	1	141	64	<b>142</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>379</b>	<b>3,079</b>	<b>17</b>	<b>3,459</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	1	0	-	<b>1</b>
10-15	19	0	-	<b>19</b>
15-20	32	0	-	<b>32</b>
20-30	62	81	98	<b>142</b>
30-40	46	0	-	<b>46</b>
40-60	18	0	-	<b>18</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>179</b>	<b>81</b>	<b>98</b>	<b>259</b>
<b>Hybrid larch</b>				
0-7	0	1	70	<b>1</b>
7-10	1	8	68	<b>9</b>
10-15	21	68	36	<b>89</b>
15-20	33	266	46	<b>299</b>
20-30	36	896	26	<b>932</b>
30-40	18	642	38	<b>660</b>
40-60	5	709	53	<b>714</b>
60-80	1	141	64	<b>142</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>114</b>	<b>2,732</b>	<b>18</b>	<b>2,846</b>
<b>European larch</b>				
0-7	0	0	-	<b>0</b>
7-10	2	3	79	<b>5</b>
10-15	6	11	101	<b>16</b>
15-20	20	43	96	<b>63</b>
20-30	37	14	101	<b>51</b>
30-40	14	119	84	<b>133</b>
40-60	7	76	98	<b>83</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>86</b>	<b>265</b>	<b>52</b>	<b>351</b>

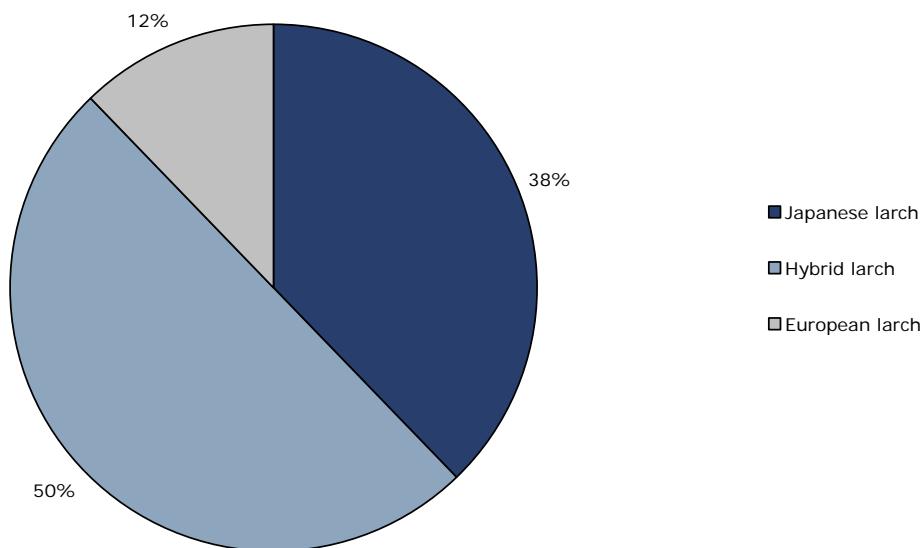
## South Scotland

2011 Stocked area at 31 March 2011

**Figure 34** Species composition (by stocked area) – South Scotland



**Figure 35** Larch species composition (by stocked area) – South Scotland



# NFI Provisional Report

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**Table 34** Stocked area by principal species – South Scotland

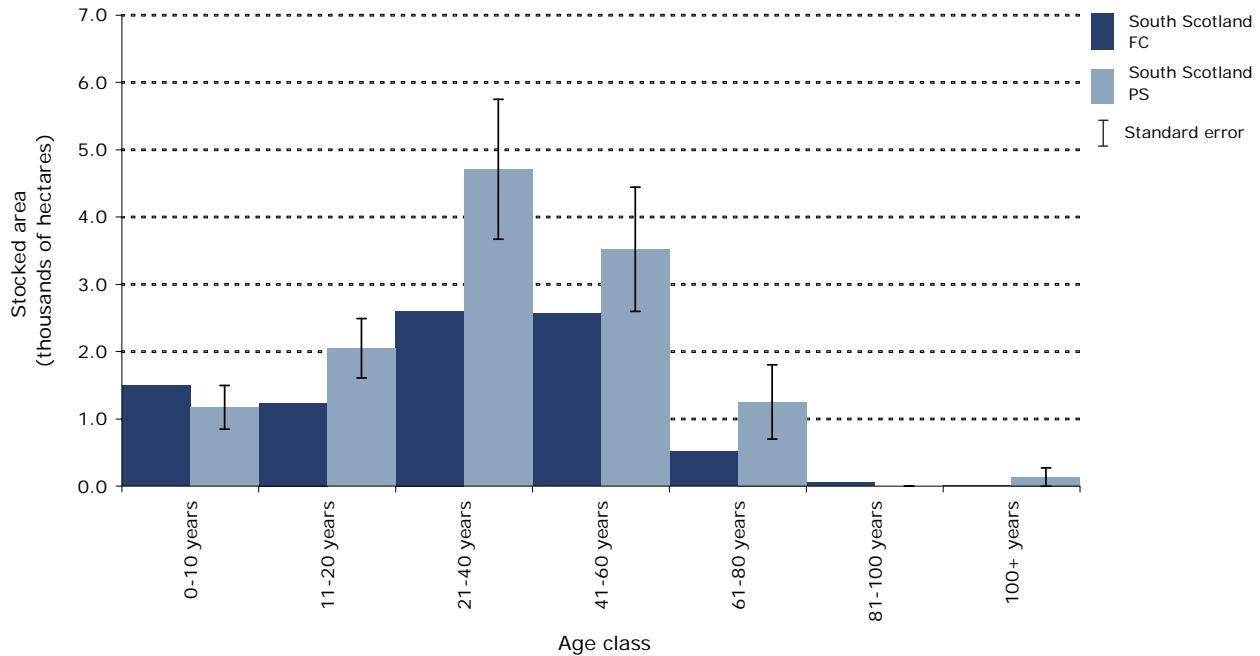
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South Scotland</b>				
<b>All conifers</b>	<b>115.2</b>	<b>162.3</b>	<b>2</b>	<b>277.5</b>
Sitka spruce	92.3	129.2	3	<b>221.6</b>
Scots pine	2.5	7.2	17	<b>9.7</b>
Corsican pine	0.1	0.2	65	<b>0.4</b>
Norway spruce	3.2	7.1	18	<b>10.2</b>
Larches	8.5	12.8	12	<b>21.3</b>
Douglas fir	0.9	1.1	33	<b>2.0</b>
Lodgepole pine	6.9	3.1	28	<b>10.0</b>
Other conifers	0.7	1.4	29	<b>2.1</b>
<b>All broadleaves</b>	<b>6.8</b>	<b>74.5</b>	<b>5</b>	<b>81.4</b>
Oak	0.6	7.9	14	<b>8.5</b>
Beech	0.2	5.5	18	<b>5.7</b>
Sycamore	0.1	10.6	11	<b>10.8</b>
Ash	0.1	9.0	15	<b>9.1</b>
Birch	0.7	19.9	10	<b>20.6</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.0	1.2	33	<b>1.2</b>
Hawthorn	0.0	4.9	25	<b>4.9</b>
Alder	0.1	4.3	20	<b>4.4</b>
Willow	0.0	3.2	18	<b>3.2</b>
Other broadleaves	5.1	7.9	13	<b>13.0</b>
<b>All species</b>	<b>122.0</b>	<b>236.7</b>	<b>2</b>	<b>358.7</b>

**Table 35** Stocked area of larches – South Scotland

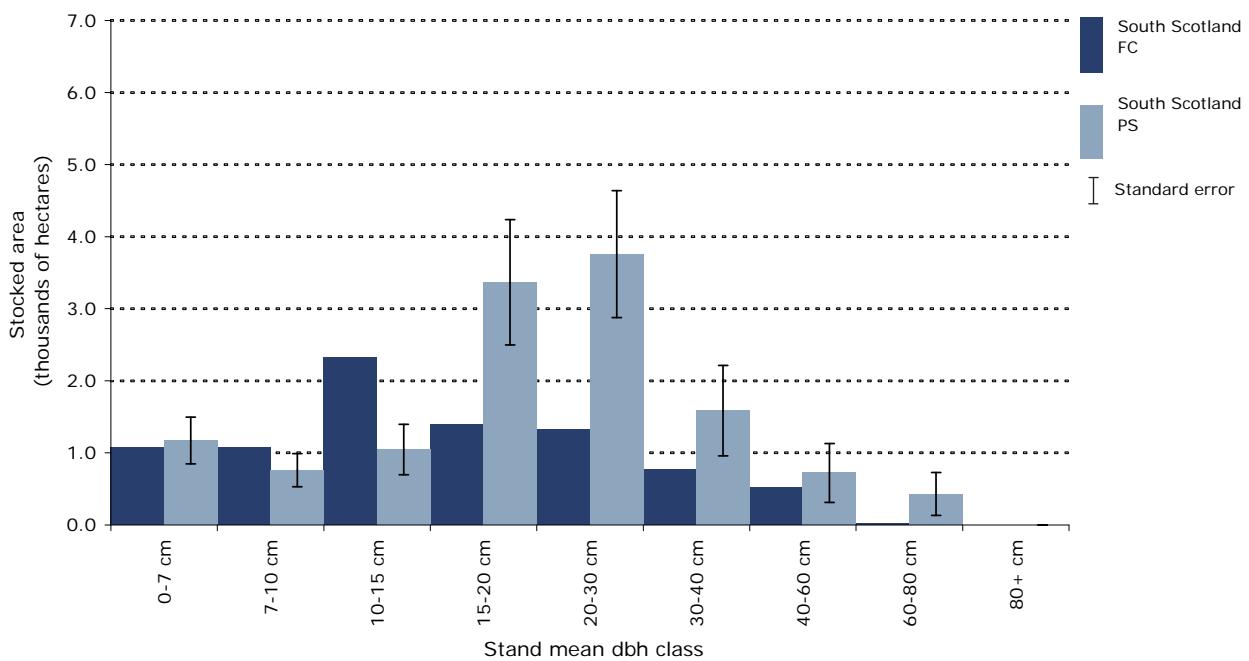
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South Scotland</b>				
<b>Larches</b>	<b>8.5</b>	<b>12.8</b>	<b>12</b>	<b>21.3</b>
Japanese larch	5.4	2.6	23	<b>8.1</b>
Hybrid larch	2.8	7.9	17	<b>10.7</b>
European larch	0.3	2.3	30	<b>2.6</b>
Other larches	0.0	0.0	-	<b>0.0</b>

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**Figure 36** Stocked area of larches by age class – South Scotland



**Figure 37** Stocked area of larches by stand mean dbh class – South Scotland



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**Table 36** Stocked area of larches by age class – South Scotland

Age class (years)	FC	Private sector	Total	
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	1.5	1.2	28	<b>2.7</b>
11-20	1.2	2.1	22	<b>3.3</b>
21-40	2.6	4.7	22	<b>7.3</b>
41-60	2.6	3.5	26	<b>6.1</b>
61-80	0.5	1.3	44	<b>1.8</b>
81-100	0.1	0.0	-	<b>0.1</b>
100+	0.0	0.1	109	<b>0.1</b>
<b>Total</b>	<b>8.5</b>	<b>12.8</b>	<b>12</b>	<b>21.3</b>
<b>Japanese larch</b>				
0-10	0.6	0.5	46	<b>1.1</b>
11-20	0.5	0.9	38	<b>1.4</b>
21-40	1.8	0.9	45	<b>2.7</b>
41-60	2.0	0.4	65	<b>2.3</b>
61-80	0.4	0.0	89	<b>0.5</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>5.4</b>	<b>2.6</b>	<b>23</b>	<b>8.1</b>
<b>Hybrid larch</b>				
0-10	0.9	0.7	37	<b>1.5</b>
11-20	0.7	1.0	26	<b>1.7</b>
21-40	0.7	2.5	31	<b>3.2</b>
41-60	0.5	2.4	35	<b>2.9</b>
61-80	0.0	1.2	46	<b>1.2</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.1	109	<b>0.1</b>
<b>Total</b>	<b>2.8</b>	<b>7.9</b>	<b>17</b>	<b>10.7</b>
<b>European larch</b>				
0-10	0.0	0.1	81	<b>0.1</b>
11-20	0.0	0.2	82	<b>0.2</b>
21-40	0.1	1.3	44	<b>1.4</b>
41-60	0.1	0.8	45	<b>0.9</b>
61-80	0.1	0.0	-	<b>0.1</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.3</b>	<b>2.3</b>	<b>30</b>	<b>2.6</b>

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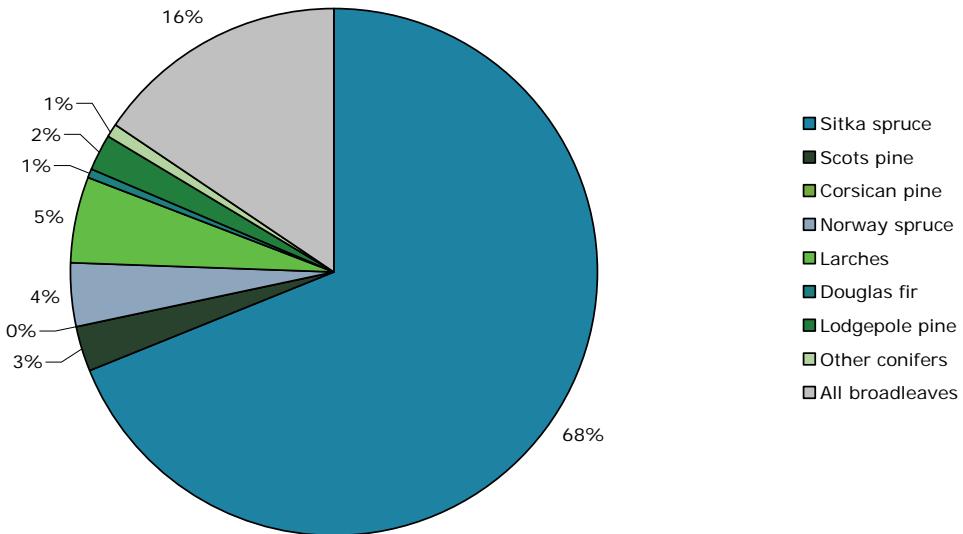
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**Table 37** Stocked area of larches by stand mean dbh class – South Scotland

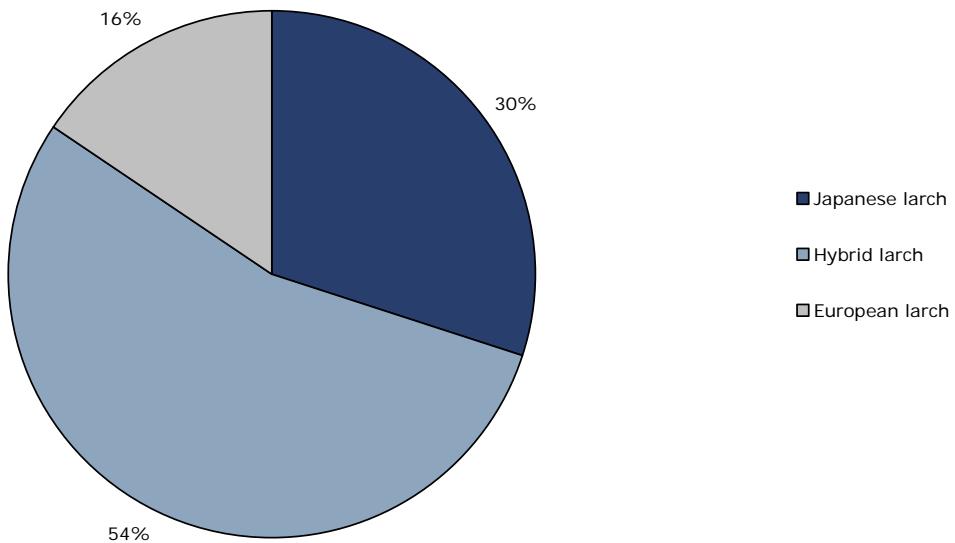
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	1.1	1.2	28	<b>2.2</b>
7-10	1.1	0.8	30	<b>1.8</b>
10-15	2.3	1.0	33	<b>3.4</b>
15-20	1.4	3.4	26	<b>4.8</b>
20-30	1.3	3.8	23	<b>5.1</b>
30-40	0.8	1.6	40	<b>2.3</b>
40-60	0.5	0.7	57	<b>1.2</b>
60-80	0.0	0.4	70	<b>0.4</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>8.5</b>	<b>12.8</b>	<b>12</b>	<b>21.3</b>
<b>Japanese larch</b>				
0-7	0.5	0.5	46	<b>1.0</b>
7-10	0.3	0.2	50	<b>0.5</b>
10-15	1.6	0.3	41	<b>1.8</b>
15-20	0.9	1.1	47	<b>2.0</b>
20-30	0.9	0.5	36	<b>1.4</b>
30-40	0.7	0.0	89	<b>0.7</b>
40-60	0.5	0.0	-	<b>0.5</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>5.4</b>	<b>2.6</b>	<b>23</b>	<b>8.1</b>
<b>Hybrid larch</b>				
0-7	0.5	0.7	37	<b>1.2</b>
7-10	0.8	0.4	41	<b>1.1</b>
10-15	0.7	0.7	47	<b>1.4</b>
15-20	0.4	1.4	35	<b>1.8</b>
20-30	0.3	2.5	31	<b>2.9</b>
30-40	0.1	1.2	48	<b>1.3</b>
40-60	0.0	0.6	67	<b>0.6</b>
60-80	0.0	0.4	70	<b>0.4</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>2.8</b>	<b>7.9</b>	<b>17</b>	<b>10.7</b>
<b>European larch</b>				
0-7	0.0	0.1	81	<b>0.1</b>
7-10	0.0	0.2	82	<b>0.2</b>
10-15	0.1	0.0	71	<b>0.1</b>
15-20	0.1	0.9	58	<b>1.0</b>
20-30	0.1	0.7	50	<b>0.8</b>
30-40	0.0	0.3	72	<b>0.4</b>
40-60	0.0	0.1	87	<b>0.2</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.3</b>	<b>2.3</b>	<b>30</b>	<b>2.6</b>

2011 Standing volume at 31 March 2011

**Figure 38** Species composition (by standing volume) – South Scotland



**Figure 39** Larch species composition (by standing volume) – South Scotland



# NFI Provisional Report

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**Table 38** Standing volume by principal species – South Scotland

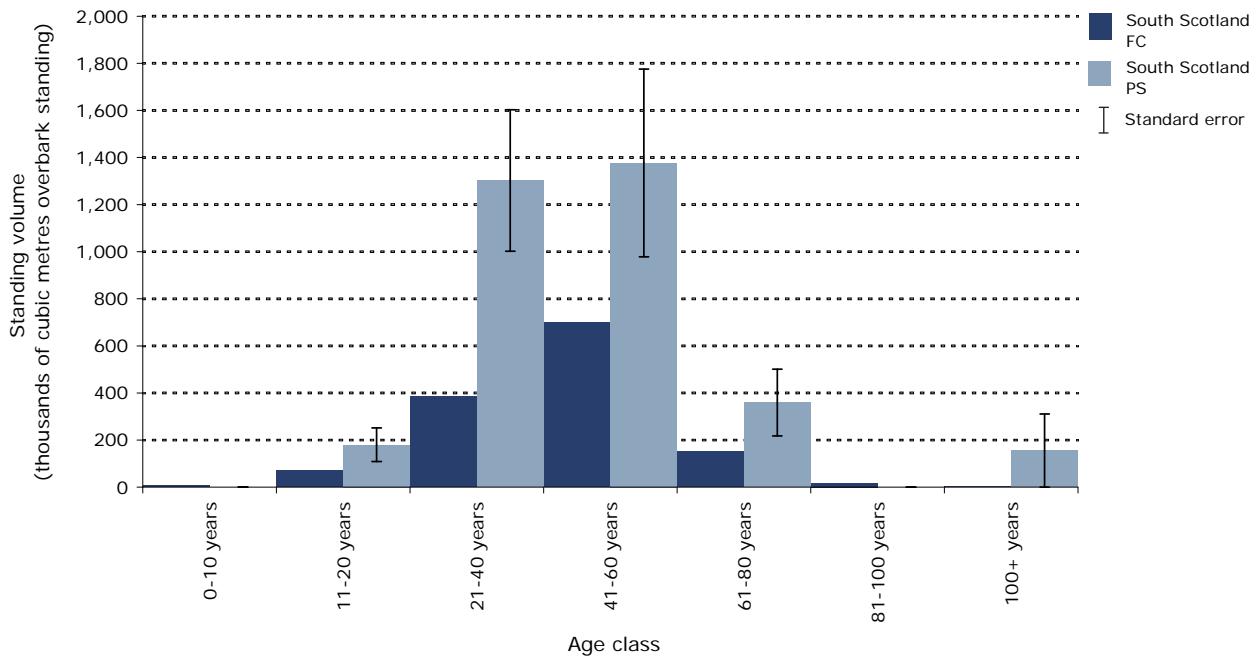
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South Scotland</b>				
<b>All conifers</b>	<b>23,671</b>	<b>48,656</b>	<b>4</b>	<b>72,327</b>
Sitka spruce	19,683	39,241	5	58,923
Scots pine	271	2,214	21	2,485
Corsican pine	34	41	70	75
Norway spruce	814	2,336	23	3,149
Larches	1,334	3,373	16	4,708
Douglas fir	201	279	38	481
Lodgepole pine	1,160	608	33	1,767
Other conifers	174	554	34	728
<b>All broadleaves</b>	<b>354</b>	<b>12,993</b>	<b>11</b>	<b>13,348</b>
Oak	96	3,142	22	3,239
Beech	22	2,013	27	2,035
Sycamore	12	2,493	18	2,504
Ash	7	1,954	31	1,961
Birch	49	1,140	13	1,189
Sweet chestnut	0	0	-	0
Hazel	0	34	44	35
Hawthorn	0	137	23	137
Alder	6	421	25	427
Willow	0	95	24	95
Other broadleaves	162	1,565	32	1,727
<b>All species</b>	<b>24,025</b>	<b>61,612</b>	<b>4</b>	<b>85,637</b>

**Table 39** Standing volume of larches – South Scotland

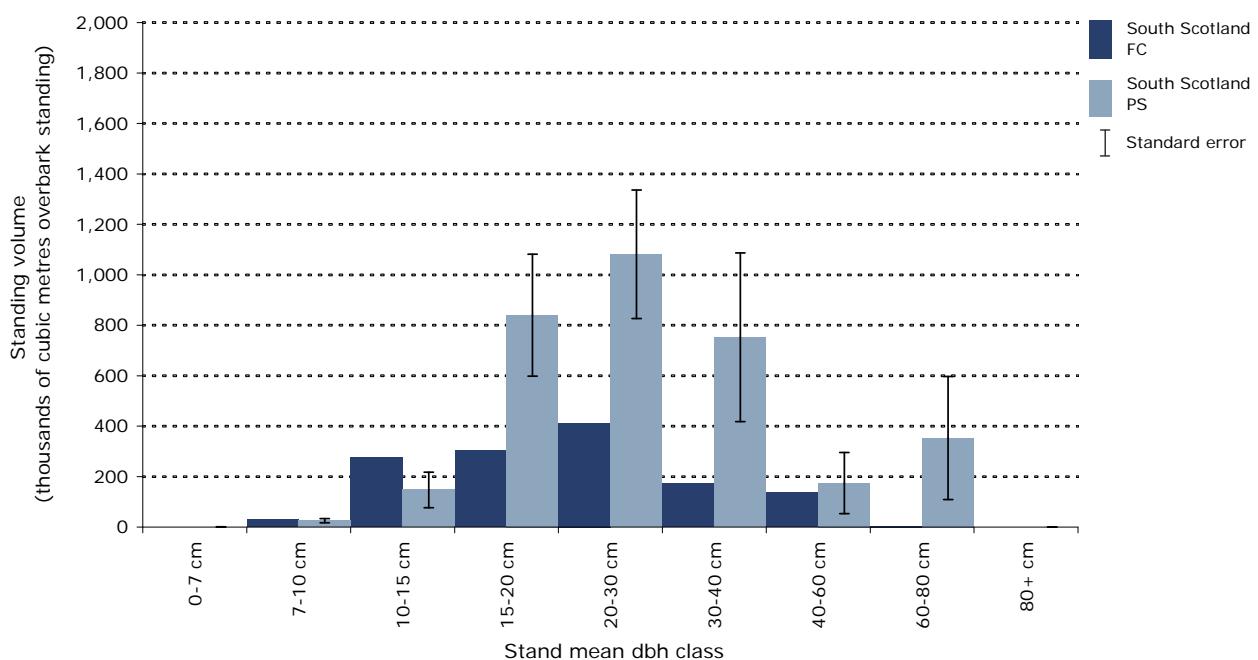
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South Scotland</b>				
<b>Larches</b>	<b>1,334</b>	<b>3,373</b>	<b>16</b>	<b>4,708</b>
Japanese larch	1,011	403	30	1,414
Hybrid larch	267	2,296	21	2,563
European larch	57	675	37	731
Other larches	0	0	-	0

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**Figure 40** Standing volume of larches by age class – South Scotland



**Figure 41** Standing volume of larches by stand mean dbh class – South Scotland



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**Table 40** Standing volume of larches by age class – South Scotland

Age class (years)	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>Larches</b>				
0-10	6	0	85	6
11-20	70	180	40	249
21-40	386	1,302	23	1,689
41-60	700	1,377	29	2,077
61-80	151	359	40	510
81-100	18	0	-	18
100+	3	156	109	159
<b>Total</b>	<b>1,334</b>	<b>3,373</b>	<b>16</b>	<b>4,708</b>
<b>Japanese larch</b>				
0-10	1	0	-	1
11-20	34	94	67	128
21-40	279	185	45	463
41-60	553	103	58	656
61-80	131	21	89	152
81-100	12	0	-	12
100+	0	0	-	0
<b>Total</b>	<b>1,011</b>	<b>403</b>	<b>30</b>	<b>1,414</b>
<b>Hybrid larch</b>				
0-10	5	0	-	5
11-20	35	82	39	118
21-40	99	715	29	815
41-60	124	1,005	37	1,129
61-80	4	338	42	341
81-100	1	0	-	1
100+	0	156	109	156
<b>Total</b>	<b>267</b>	<b>2,296</b>	<b>21</b>	<b>2,563</b>
<b>European larch</b>				
0-10	0	0	85	0
11-20	0	3	81	4
21-40	8	402	51	411
41-60	24	269	52	292
61-80	16	0	-	16
81-100	5	0	-	5
100+	3	0	-	3
<b>Total</b>	<b>57</b>	<b>675</b>	<b>37</b>	<b>731</b>

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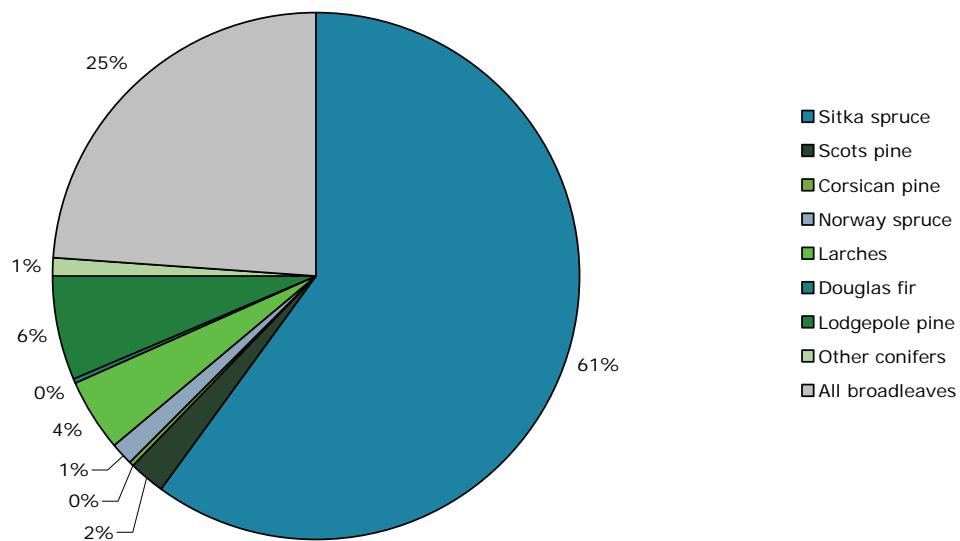
**Table 41** Standing volume of larches by stand mean dbh class – South Scotland

Mean stand DBH (cm)	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>Larches</b>				
0-7	0	0	85	<b>0</b>
7-10	28	25	33	<b>53</b>
10-15	276	147	48	<b>423</b>
15-20	303	840	29	<b>1,143</b>
20-30	412	1,081	24	<b>1,493</b>
30-40	173	753	44	<b>926</b>
40-60	137	174	70	<b>312</b>
60-80	5	353	69	<b>358</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>1,334</b>	<b>3,373</b>	<b>16</b>	<b>4,708</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	10	8	57	<b>18</b>
10-15	196	15	40	<b>211</b>
15-20	206	238	48	<b>444</b>
20-30	317	120	33	<b>438</b>
30-40	153	21	89	<b>174</b>
40-60	125	0	-	<b>125</b>
60-80	4	0	-	<b>4</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>1,011</b>	<b>403</b>	<b>30</b>	<b>1,414</b>
<b>Hybrid larch</b>				
0-7	0	0	-	<b>0</b>
7-10	18	13	46	<b>32</b>
10-15	71	121	58	<b>192</b>
15-20	81	297	38	<b>377</b>
20-30	72	752	29	<b>824</b>
30-40	16	625	51	<b>641</b>
40-60	8	136	86	<b>144</b>
60-80	0	353	69	<b>353</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>267</b>	<b>2,296</b>	<b>21</b>	<b>2,563</b>
<b>European larch</b>				
0-7	0	0	85	<b>0</b>
7-10	0	3	81	<b>3</b>
10-15	9	11	71	<b>19</b>
15-20	17	305	60	<b>322</b>
20-30	23	209	62	<b>232</b>
30-40	4	107	94	<b>111</b>
40-60	4	39	87	<b>43</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>57</b>	<b>675</b>	<b>37</b>	<b>731</b>

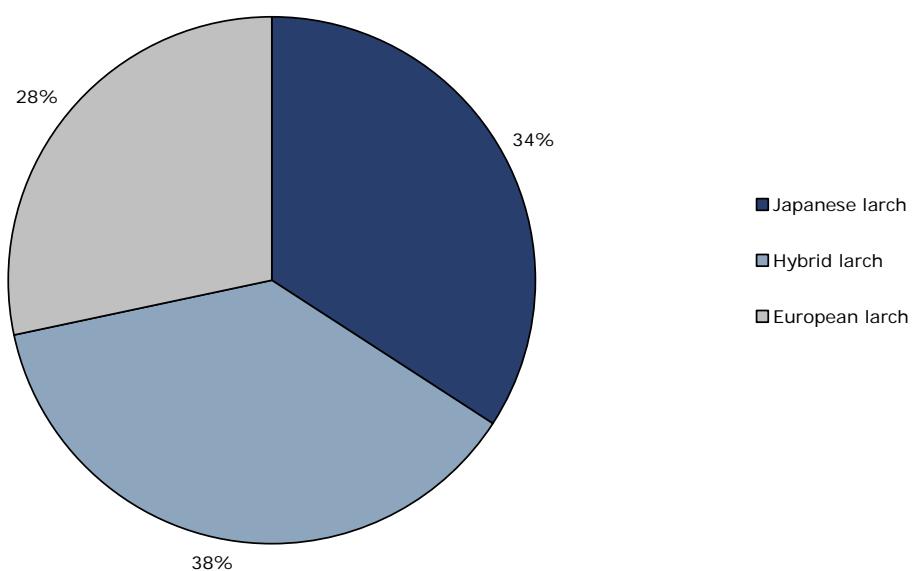
## West Scotland

2011 Stocked area at 31 March 2011

**Figure 42** Species composition (by stocked area) – West Scotland



**Figure 43** Larch species composition (by stocked area) – West Scotland



# NFI Provisional Report

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**Table 42** Stocked area by principal species – West Scotland

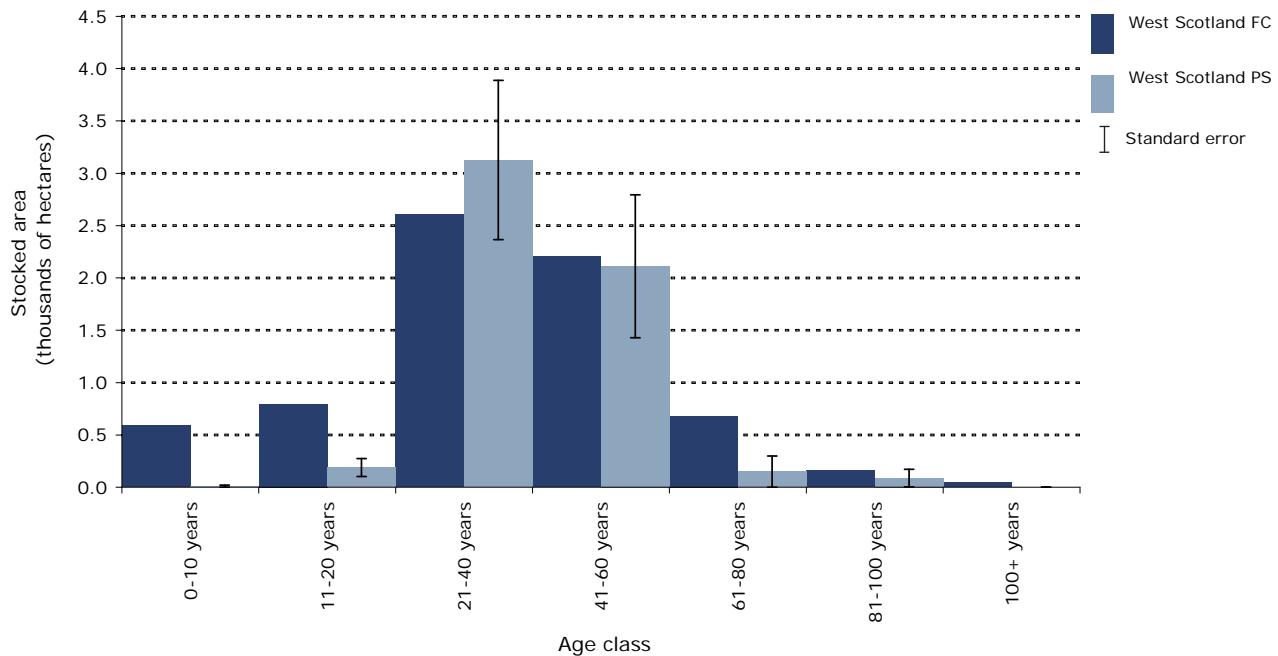
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>West Scotland</b>				
<b>All conifers</b>	<b>116.3</b>	<b>107.4</b>	<b>2</b>	<b>223.6</b>
Sitka spruce	89.7	86.5	3	<b>176.2</b>
Scots pine	2.6	3.7	25	<b>6.4</b>
Corsican pine	0.1	0.8	58	<b>0.8</b>
Norway spruce	3.3	0.7	54	<b>4.1</b>
Larches	7.1	5.7	18	<b>12.8</b>
Douglas fir	0.8	0.1	72	<b>0.9</b>
Lodgepole pine	11.5	7.1	17	<b>18.6</b>
Other conifers	1.1	2.6	35	<b>3.7</b>
<b>All broadleaves</b>	<b>12.0</b>	<b>57.8</b>	<b>6</b>	<b>69.8</b>
Oak	1.5	8.9	21	<b>10.4</b>
Beech	0.2	2.5	32	<b>2.6</b>
Sycamore	0.1	1.4	55	<b>1.4</b>
Ash	0.2	1.1	43	<b>1.3</b>
Birch	4.5	28.0	12	<b>32.4</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.2	2.7	29	<b>2.9</b>
Hawthorn	0.0	0.2	53	<b>0.2</b>
Alder	0.3	4.7	24	<b>5.0</b>
Willow	0.0	1.2	28	<b>1.2</b>
Other broadleaves	5.1	6.9	21	<b>12.1</b>
<b>All species</b>	<b>128.3</b>	<b>164.9</b>	<b>2</b>	<b>293.2</b>

**Table 43** Stocked area of larches – West Scotland

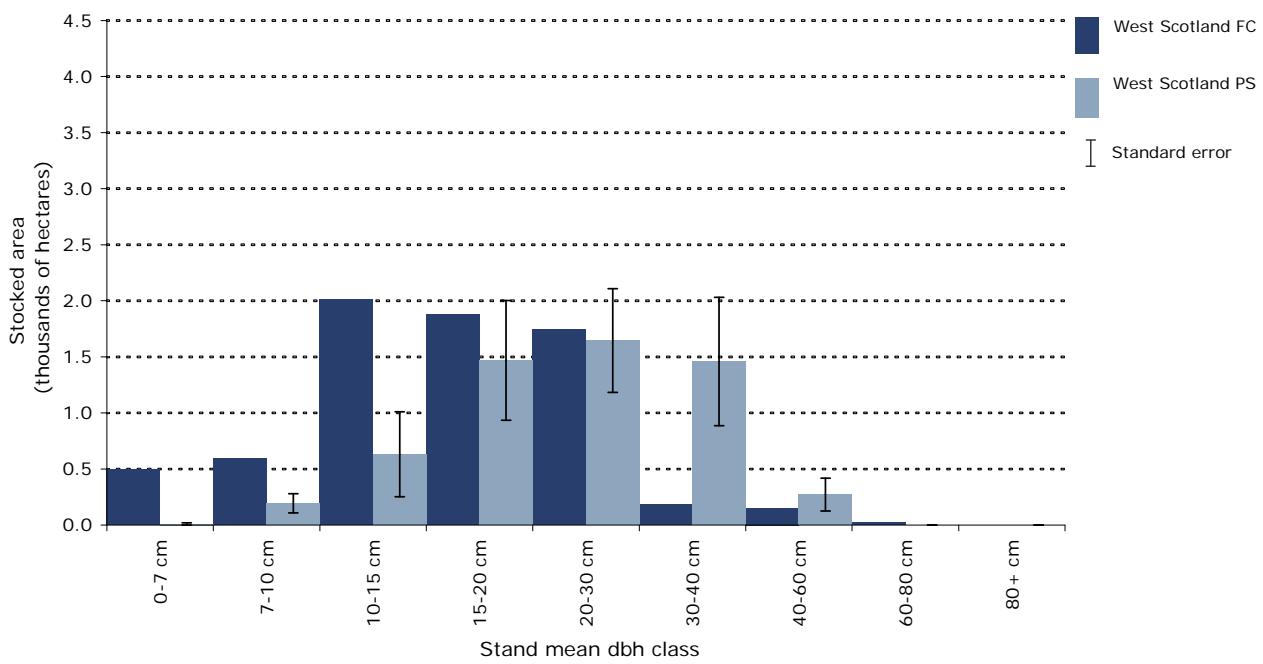
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>West Scotland</b>				
<b>Larches</b>	<b>7.1</b>	<b>5.7</b>	<b>18</b>	<b>12.8</b>
Japanese larch	4.3	0.1	64	<b>4.4</b>
Hybrid larch	2.3	2.5	30	<b>4.8</b>
European larch	0.5	3.1	24	<b>3.6</b>
Other larches	0.0	0.0	-	<b>0.0</b>

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**Figure 44** Stocked area of larches by age class – West Scotland



**Figure 45** Stocked area of larches by stand mean dbh class – West Scotland



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**Table 44** Stocked area of larches by age class – West Scotland

Age class (years)	FC	Private sector	Total	
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	0.6	0.0	100	<b>0.6</b>
11-20	0.8	0.2	46	<b>1.0</b>
21-40	2.6	3.1	24	<b>5.7</b>
41-60	2.2	2.1	32	<b>4.3</b>
61-80	0.7	0.2	102	<b>0.8</b>
81-100	0.2	0.1	95	<b>0.3</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>7.1</b>	<b>5.7</b>	<b>18</b>	<b>12.8</b>
<b>Japanese larch</b>				
0-10	0.3	0.0	-	<b>0.3</b>
11-20	0.3	0.1	80	<b>0.4</b>
21-40	1.6	0.0	102	<b>1.7</b>
41-60	1.5	0.0	-	<b>1.5</b>
61-80	0.4	0.0	-	<b>0.4</b>
81-100	0.1	0.0	-	<b>0.1</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>4.3</b>	<b>0.1</b>	<b>64</b>	<b>4.4</b>
<b>Hybrid larch</b>				
0-10	0.3	0.0	-	<b>0.3</b>
11-20	0.4	0.0	77	<b>0.5</b>
21-40	0.9	1.6	39	<b>2.5</b>
41-60	0.6	0.7	49	<b>1.3</b>
61-80	0.1	0.2	102	<b>0.2</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>2.3</b>	<b>2.5</b>	<b>30</b>	<b>4.8</b>
<b>European larch</b>				
0-10	0.1	0.0	100	<b>0.1</b>
11-20	0.0	0.1	77	<b>0.1</b>
21-40	0.0	1.5	30	<b>1.6</b>
41-60	0.1	1.4	42	<b>1.5</b>
61-80	0.2	0.0	-	<b>0.2</b>
81-100	0.1	0.1	95	<b>0.2</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.5</b>	<b>3.1</b>	<b>24</b>	<b>3.6</b>

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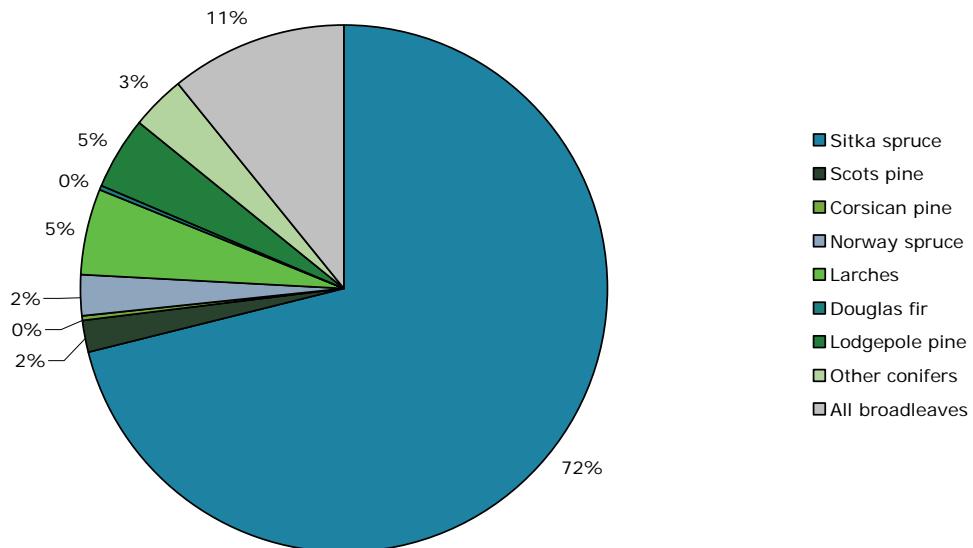
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**Table 45** Stocked area of larches by stand mean dbh class – West Scotland

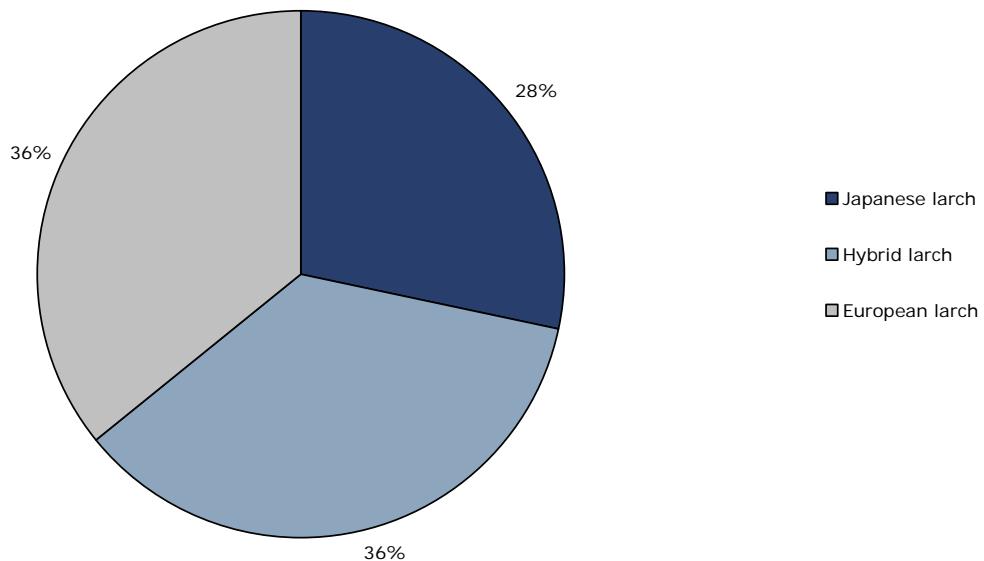
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	0.5	0.0	100	<b>0.5</b>
7-10	0.6	0.2	45	<b>0.8</b>
10-15	2.0	0.6	60	<b>2.6</b>
15-20	1.9	1.5	36	<b>3.3</b>
20-30	1.7	1.6	28	<b>3.4</b>
30-40	0.2	1.5	39	<b>1.6</b>
40-60	0.2	0.3	54	<b>0.4</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>7.1</b>	<b>5.7</b>	<b>18</b>	<b>12.8</b>
<b>Japanese larch</b>				
0-7	0.3	0.0	-	<b>0.3</b>
7-10	0.3	0.1	80	<b>0.3</b>
10-15	1.2	0.0	-	<b>1.2</b>
15-20	1.2	0.0	102	<b>1.2</b>
20-30	1.2	0.0	-	<b>1.2</b>
30-40	0.1	0.0	-	<b>0.1</b>
40-60	0.1	0.0	-	<b>0.1</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>4.3</b>	<b>0.1</b>	<b>64</b>	<b>4.4</b>
<b>Hybrid larch</b>				
0-7	0.2	0.0	-	<b>0.2</b>
7-10	0.3	0.0	82	<b>0.3</b>
10-15	0.8	0.6	66	<b>1.3</b>
15-20	0.6	1.1	47	<b>1.7</b>
20-30	0.4	0.2	53	<b>0.6</b>
30-40	0.0	0.4	66	<b>0.4</b>
40-60	0.0	0.2	66	<b>0.2</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>2.3</b>	<b>2.5</b>	<b>30</b>	<b>4.8</b>
<b>European larch</b>				
0-7	0.0	0.0	100	<b>0.1</b>
7-10	0.0	0.1	70	<b>0.1</b>
10-15	0.0	0.1	64	<b>0.1</b>
15-20	0.1	0.4	52	<b>0.5</b>
20-30	0.2	1.4	31	<b>1.6</b>
30-40	0.1	1.1	48	<b>1.1</b>
40-60	0.0	0.1	95	<b>0.1</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.5</b>	<b>3.1</b>	<b>24</b>	<b>3.6</b>

2011 Standing volume at 31 March 2011

**Figure 46** Species composition (by standing volume) – West Scotland



**Figure 47** Larch species composition (by standing volume) – West Scotland



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**Table 46** Standing volume by principal species – West Scotland

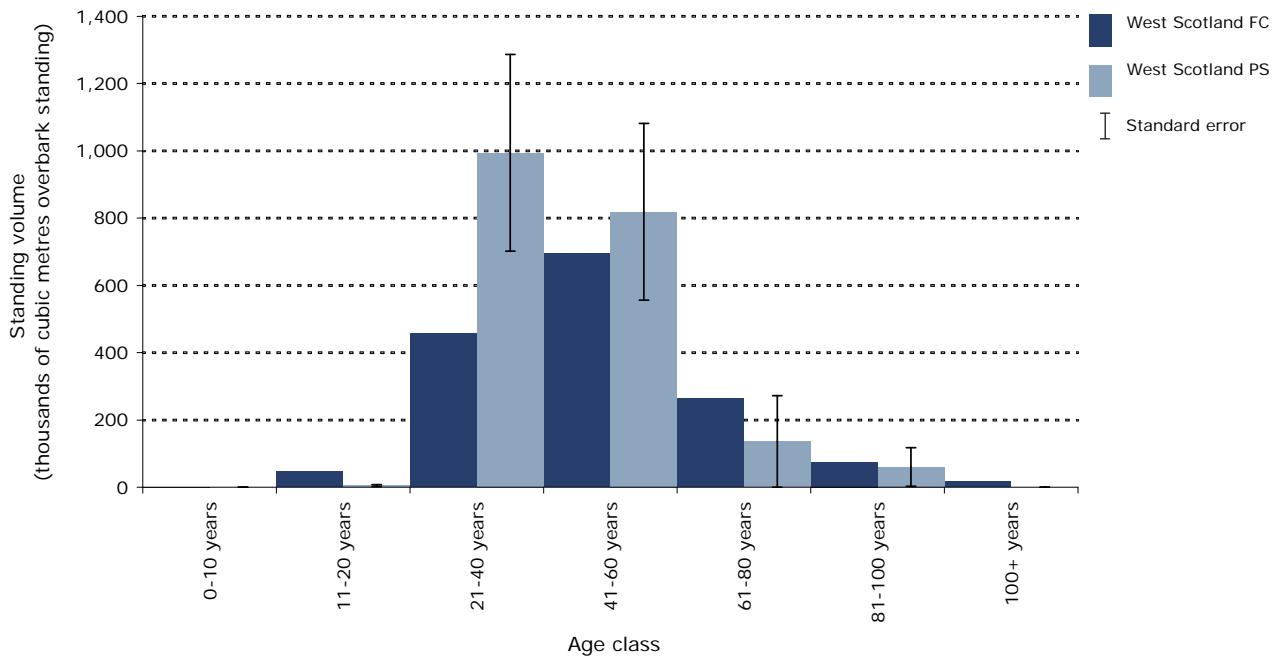
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>West Scotland</b>				
<b>All conifers</b>	<b>28,480</b>	<b>32,077</b>	<b>6</b>	<b>60,557</b>
Sitka spruce	22,692	25,489	6	<b>48,182</b>
Scots pine	540	826	33	<b>1,366</b>
Corsican pine	18	180	58	<b>197</b>
Norway spruce	1,257	360	65	<b>1,617</b>
Larches	1,555	2,014	21	<b>3,569</b>
Douglas fir	175	9	87	<b>184</b>
Lodgepole pine	1,834	1,323	25	<b>3,157</b>
Other conifers	408	1,834	70	<b>2,243</b>
<b>All broadleaves</b>	<b>1,831</b>	<b>5,467</b>	<b>14</b>	<b>7,298</b>
Oak	417	2,096	23	<b>2,513</b>
Beech	44	552	67	<b>597</b>
Sycamore	9	478	71	<b>487</b>
Ash	26	244	48	<b>271</b>
Birch	660	1,088	14	<b>1,748</b>
Sweet chestnut	0	0	-	<b>0</b>
Hazel	31	144	31	<b>175</b>
Hawthorn	0	10	78	<b>10</b>
Alder	43	555	55	<b>598</b>
Willow	0	27	40	<b>27</b>
Other broadleaves	600	216	46	<b>815</b>
<b>All species</b>	<b>30,311</b>	<b>37,437</b>	<b>6</b>	<b>67,748</b>

**Table 47** Standing volume of larches – West Scotland

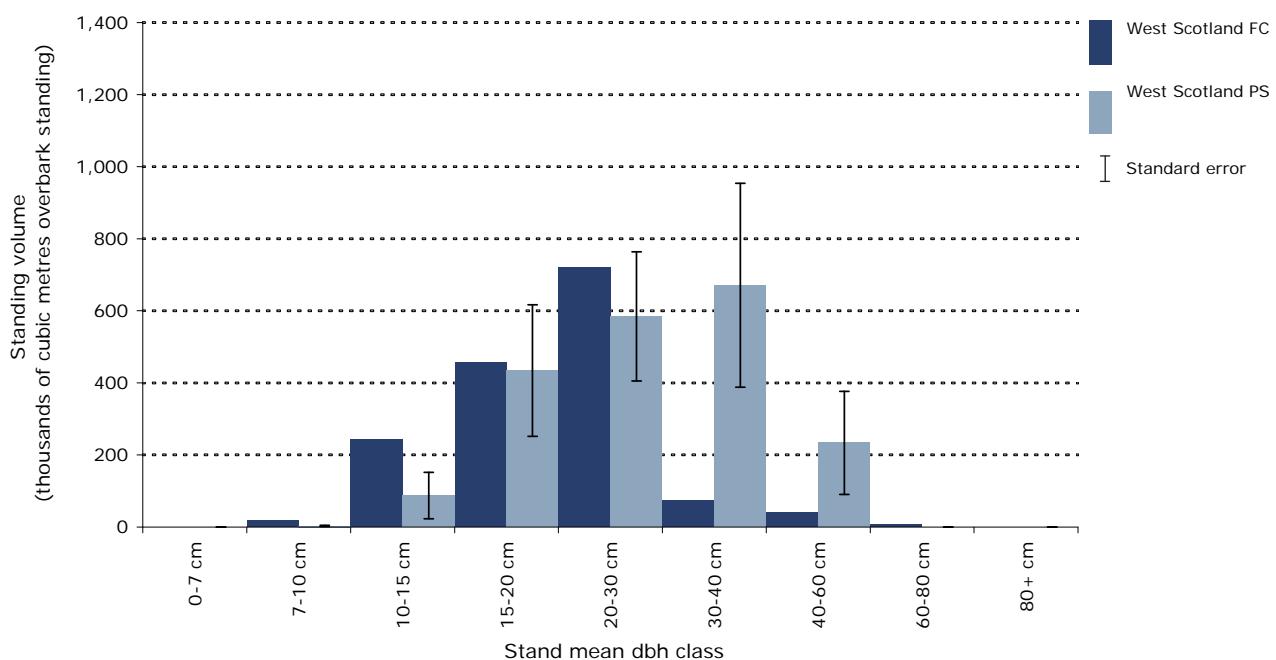
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>West Scotland</b>				
<b>Larches</b>	<b>1,555</b>	<b>2,014</b>	<b>21</b>	<b>3,569</b>
Japanese larch	1,002	10	92	<b>1,012</b>
Hybrid larch	414	869	32	<b>1,283</b>
European larch	139	1,135	27	<b>1,274</b>
Other larches	0	0	-	<b>0</b>

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**Figure 48** Standing volume of larches by age class – West Scotland



**Figure 49** Standing volume of larches by stand mean dbh class – West Scotland



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**Table 48** Standing volume of larches by age class – West Scotland

Age class (years)	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>Larches</b>				
0-10	1	0	100	1
11-20	46	5	54	51
21-40	457	994	29	1,451
41-60	695	819	32	1,514
61-80	264	136	102	400
81-100	75	60	95	136
100+	17	0	-	17
<b>Total</b>	<b>1,555</b>	<b>2,014</b>	<b>21</b>	<b>3,569</b>
<b>Japanese larch</b>				
0-10	1	0	-	1
11-20	20	1	80	21
21-40	284	9	102	293
41-60	486	0	-	486
61-80	165	0	-	165
81-100	42	0	-	42
100+	4	0	-	4
<b>Total</b>	<b>1,002</b>	<b>10</b>	<b>92</b>	<b>1,012</b>
<b>Hybrid larch</b>				
0-10	1	0	-	1
11-20	25	2	95	28
21-40	168	381	42	549
41-60	186	349	53	535
61-80	26	136	102	163
81-100	8	0	-	8
100+	0	0	-	0
<b>Total</b>	<b>414</b>	<b>869</b>	<b>32</b>	<b>1,283</b>
<b>European larch</b>				
0-10	0	0	100	0
11-20	0	1	77	2
21-40	5	604	41	608
41-60	24	470	40	494
61-80	72	0	-	72
81-100	25	60	95	86
100+	13	0	-	13
<b>Total</b>	<b>139</b>	<b>1,135</b>	<b>27</b>	<b>1,274</b>

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**Table 49** Standing volume of larches by stand mean dbh class – West Scotland

Mean stand DBH (cm)	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>Larches</b>				
0-7	0	0	100	<b>0</b>
7-10	17	3	46	<b>20</b>
10-15	242	87	74	<b>330</b>
15-20	456	434	42	<b>890</b>
20-30	719	585	31	<b>1,304</b>
30-40	74	671	42	<b>745</b>
40-60	41	233	61	<b>274</b>
60-80	6	0	-	<b>6</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>1,555</b>	<b>2,014</b>	<b>21</b>	<b>3,569</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	9	1	80	<b>10</b>
10-15	146	0	-	<b>146</b>
15-20	286	9	102	<b>295</b>
20-30	481	0	-	<b>481</b>
30-40	44	0	-	<b>44</b>
40-60	31	0	-	<b>31</b>
60-80	4	0	-	<b>4</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>1,002</b>	<b>10</b>	<b>92</b>	<b>1,012</b>
<b>Hybrid larch</b>				
0-7	0	0	-	<b>0</b>
7-10	8	0	72	<b>8</b>
10-15	90	84	76	<b>175</b>
15-20	136	347	52	<b>482</b>
20-30	166	52	57	<b>218</b>
30-40	8	212	66	<b>221</b>
40-60	5	173	76	<b>178</b>
60-80	2	0	-	<b>2</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>414</b>	<b>869</b>	<b>32</b>	<b>1,283</b>
<b>European larch</b>				
0-7	0	0	100	<b>0</b>
7-10	1	2	63	<b>3</b>
10-15	6	3	41	<b>9</b>
15-20	34	79	50	<b>113</b>
20-30	73	533	33	<b>606</b>
30-40	21	459	54	<b>480</b>
40-60	5	60	95	<b>65</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>139</b>	<b>1,135</b>	<b>27</b>	<b>1,274</b>

## South-west Scotland

The estimates presented in this report for the zones in south-west Scotland are cumulative. The results presented are therefore those for zone 1 alone, those for the area covered by zone 1 and zone 2, and finally those for the area covered by zones 1, 2 and 3.

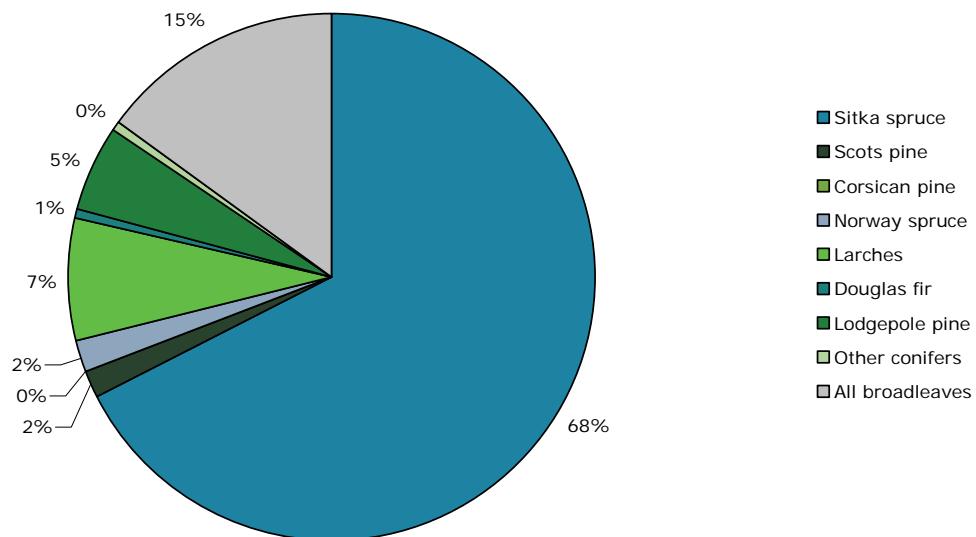
**Map 2** Phytophthora zones in south-west Scotland



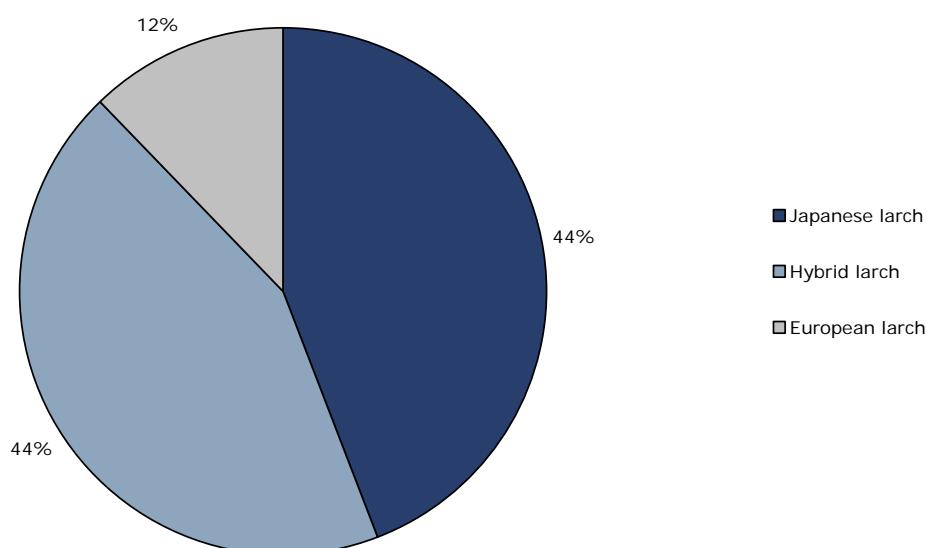
## South-west Scotland (zone 1)

2011 Stocked area at 31 March 2011

**Figure 50** Species composition (by stocked area) – south-west Scotland (zone 1)



**Figure 51** Larch species composition (by stocked area) – south-west Scotland (zone 1)



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**Table 50** Stocked area by principal species – south-west Scotland (zone 1)

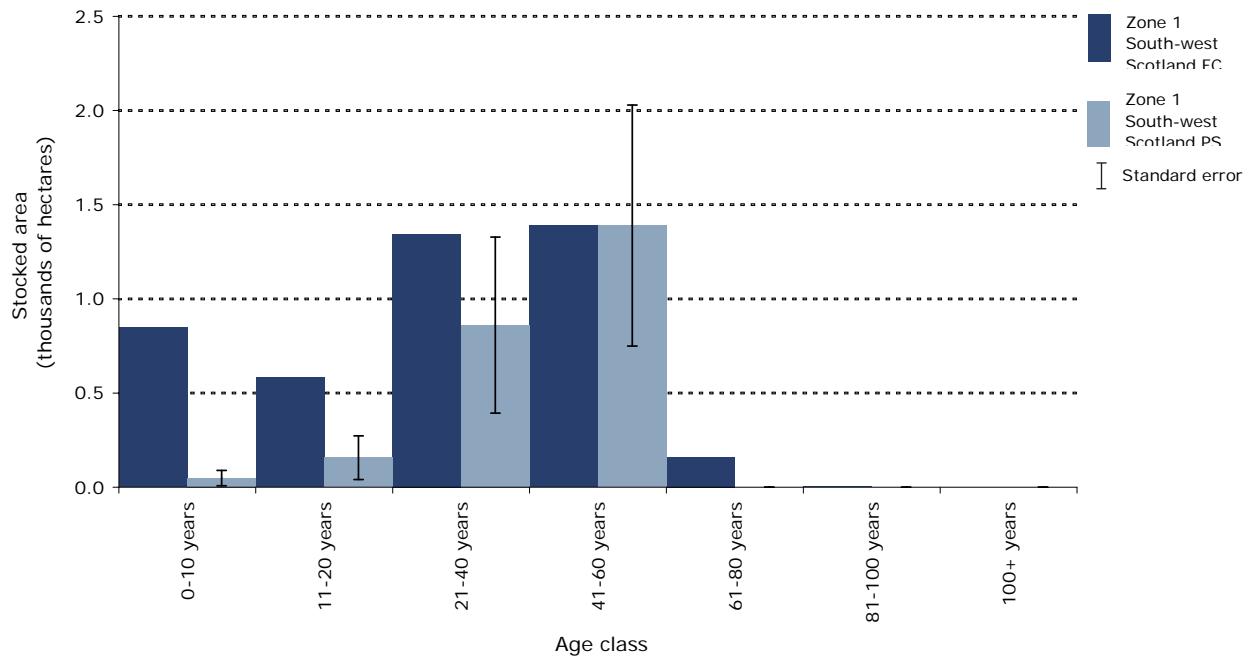
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South-west Scotland (zone 1)</b>				
<b>All conifers</b>	<b>53.4</b>	<b>24.0</b>	<b>5</b>	<b>77.4</b>
Sitka spruce	41.9	19.7	8	<b>61.6</b>
Scots pine	1.0	0.5	51	<b>1.5</b>
Corsican pine	0.1	0.0	-	<b>0.1</b>
Norway spruce	1.0	0.7	47	<b>1.6</b>
Larches	4.3	2.5	31	<b>6.8</b>
Douglas fir	0.3	0.2	103	<b>0.5</b>
Lodgepole pine	4.6	0.3	72	<b>4.9</b>
Other conifers	0.3	0.1	113	<b>0.4</b>
<b>All broadleaves</b>	<b>2.9</b>	<b>10.9</b>	<b>12</b>	<b>13.8</b>
Oak	0.4	0.8	34	<b>1.2</b>
Beech	0.1	0.4	41	<b>0.4</b>
Sycamore	0.1	1.8	28	<b>1.9</b>
Ash	0.0	1.5	34	<b>1.5</b>
Birch	0.2	2.6	24	<b>2.8</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.0	0.4	87	<b>0.4</b>
Hawthorn	0.0	0.9	34	<b>0.9</b>
Alder	0.0	0.6	37	<b>0.7</b>
Willow	0.0	0.2	58	<b>0.2</b>
Other broadleaves	2.1	1.6	37	<b>3.7</b>
<b>All species</b>	<b>56.3</b>	<b>34.9</b>	<b>4</b>	<b>91.2</b>

**Table 51** Stocked area of larches – south-west Scotland (zone 1)

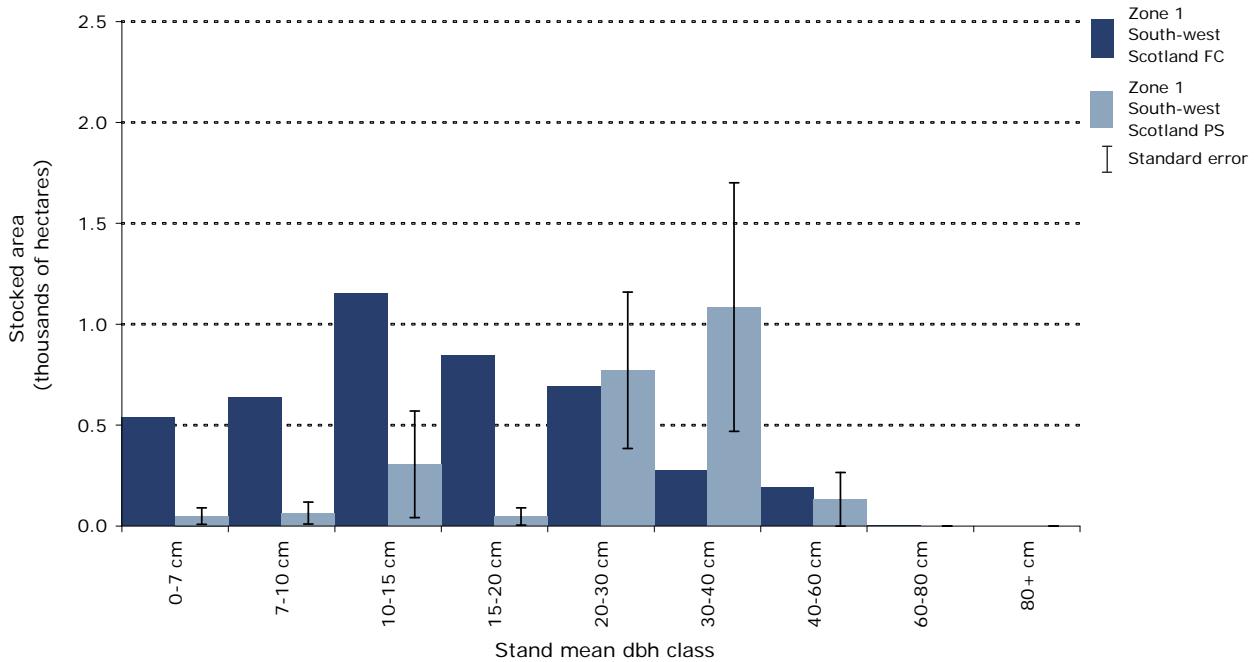
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South-west Scotland (zone 1)</b>				
<b>All larches</b>	<b>4.3</b>	<b>2.5</b>	<b>31</b>	<b>6.8</b>
Japanese Larch	3.0	0.0	-	<b>3.0</b>
Hybrid Larch	1.3	1.7	40	<b>3.0</b>
European Larch	0.1	0.8	52	<b>0.8</b>
Other Larch	0.0	0.0	-	<b>0.0</b>

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**Figure 52** Stocked area of larches by age class – south-west Scotland (zone 1)



**Figure 53** Stocked area of larches by stand mean dbh class – south-west Scotland (zone 1)



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**Table 52** Stocked area of larches by age class – south-west Scotland (zone 1)

Age class (years)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	0.8	0.0	83	<b>0.9</b>
11-20	0.6	0.2	74	<b>0.7</b>
21-40	1.3	0.9	54	<b>2.2</b>
41-60	1.4	1.4	46	<b>2.8</b>
61-80	0.2	0.0	-	<b>0.2</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>4.3</b>	<b>2.5</b>	<b>31</b>	<b>6.8</b>
<b>Japanese larch</b>				
0-10	0.4	0.0	-	<b>0.4</b>
11-20	0.3	0.0	-	<b>0.3</b>
21-40	1.0	0.0	-	<b>1.0</b>
41-60	1.1	0.0	-	<b>1.1</b>
61-80	0.1	0.0	-	<b>0.1</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>3.0</b>	<b>0.0</b>	-	<b>3.0</b>
<b>Hybrid larch</b>				
0-10	0.4	0.0	83	<b>0.5</b>
11-20	0.3	0.2	74	<b>0.4</b>
21-40	0.3	0.4	81	<b>0.7</b>
41-60	0.3	1.1	56	<b>1.3</b>
61-80	0.0	0.0	-	<b>0.0</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.3</b>	<b>1.7</b>	<b>40</b>	<b>3.0</b>
<b>European larch</b>				
0-10	0.0	0.0	-	<b>0.0</b>
11-20	0.0	0.0	-	<b>0.0</b>
21-40	0.1	0.4	74	<b>0.5</b>
41-60	0.0	0.3	74	<b>0.3</b>
61-80	0.0	0.0	-	<b>0.0</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.1</b>	<b>0.8</b>	<b>52</b>	<b>0.8</b>

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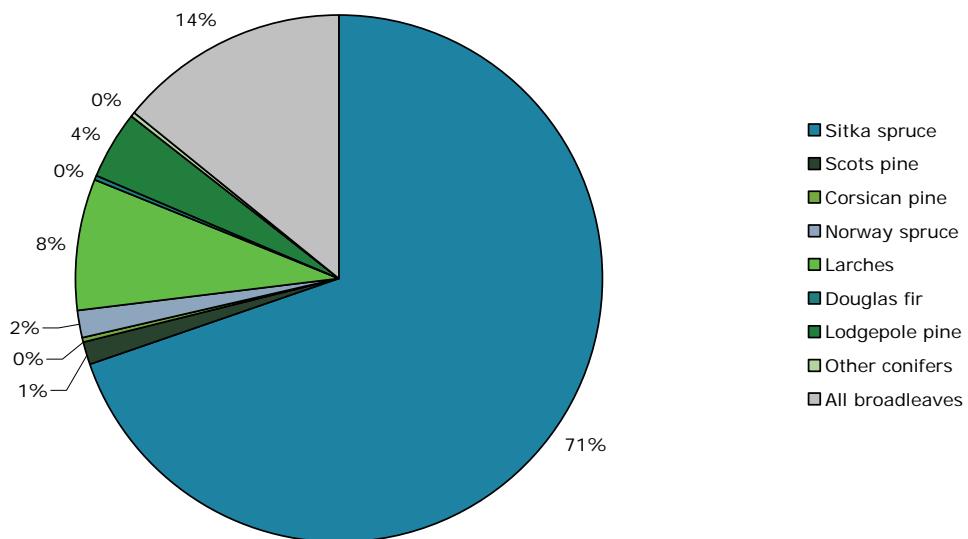
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**Table 53** Stocked area of larches by stand mean dbh class – south-west Scotland (zone 1)

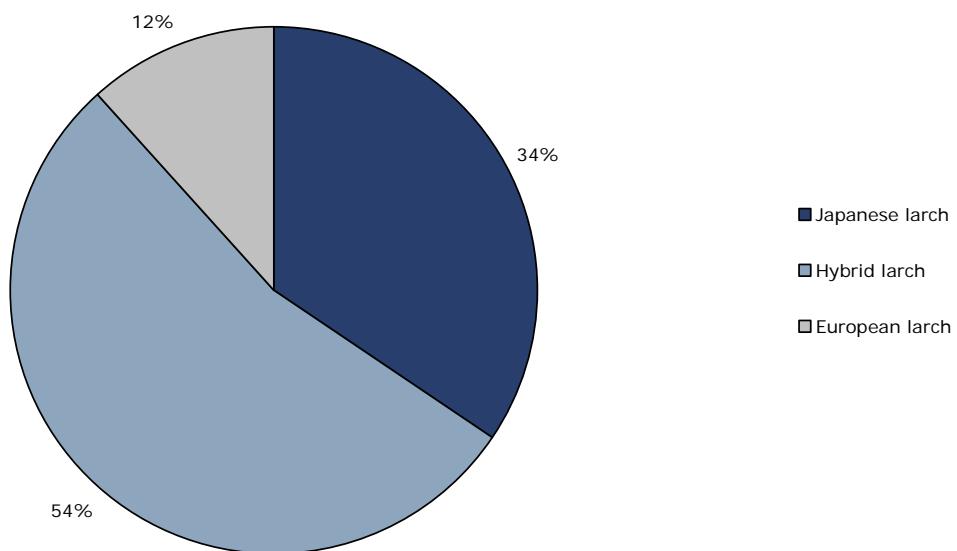
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	0.5	0.0	83	<b>0.6</b>
7-10	0.6	0.1	86	<b>0.7</b>
10-15	1.2	0.3	86	<b>1.5</b>
15-20	0.8	0.0	91	<b>0.9</b>
20-30	0.7	0.8	50	<b>1.5</b>
30-40	0.3	1.1	57	<b>1.4</b>
40-60	0.2	0.1	100	<b>0.3</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>4.3</b>	<b>2.5</b>	<b>31</b>	<b>6.8</b>
<b>Japanese larch</b>				
0-7	0.3	0.0	-	<b>0.3</b>
7-10	0.2	0.0	-	<b>0.2</b>
10-15	0.8	0.0	-	<b>0.8</b>
15-20	0.6	0.0	-	<b>0.6</b>
20-30	0.6	0.0	-	<b>0.6</b>
30-40	0.2	0.0	-	<b>0.2</b>
40-60	0.2	0.0	-	<b>0.2</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>3.0</b>	<b>0.0</b>	-	<b>3.0</b>
<b>Hybrid larch</b>				
0-7	0.2	0.0	83	<b>0.3</b>
7-10	0.4	0.1	86	<b>0.5</b>
10-15	0.3	0.3	86	<b>0.6</b>
15-20	0.2	0.0	91	<b>0.3</b>
20-30	0.1	0.3	67	<b>0.4</b>
30-40	0.0	0.9	65	<b>0.9</b>
40-60	0.0	0.0	-	<b>0.0</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.3</b>	<b>1.7</b>	<b>40</b>	<b>3.0</b>
<b>European larch</b>				
0-7	0.0	0.0	-	<b>0.0</b>
7-10	0.0	0.0	-	<b>0.0</b>
10-15	0.1	0.0	-	<b>0.1</b>
15-20	0.0	0.0	-	<b>0.0</b>
20-30	0.0	0.4	74	<b>0.5</b>
30-40	0.0	0.2	107	<b>0.2</b>
40-60	0.0	0.1	100	<b>0.1</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.1</b>	<b>0.8</b>	<b>52</b>	<b>0.8</b>

2011 Standing volume at 31 March 2011

**Figure 54** Species composition (by standing volume) – south-west Scotland (zone 1)



**Figure 55** Larch species composition (by standing volume) – south-west Scotland (zone 1)



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**Table 54** Standing volume by principal species – south-west Scotland (zone 1)

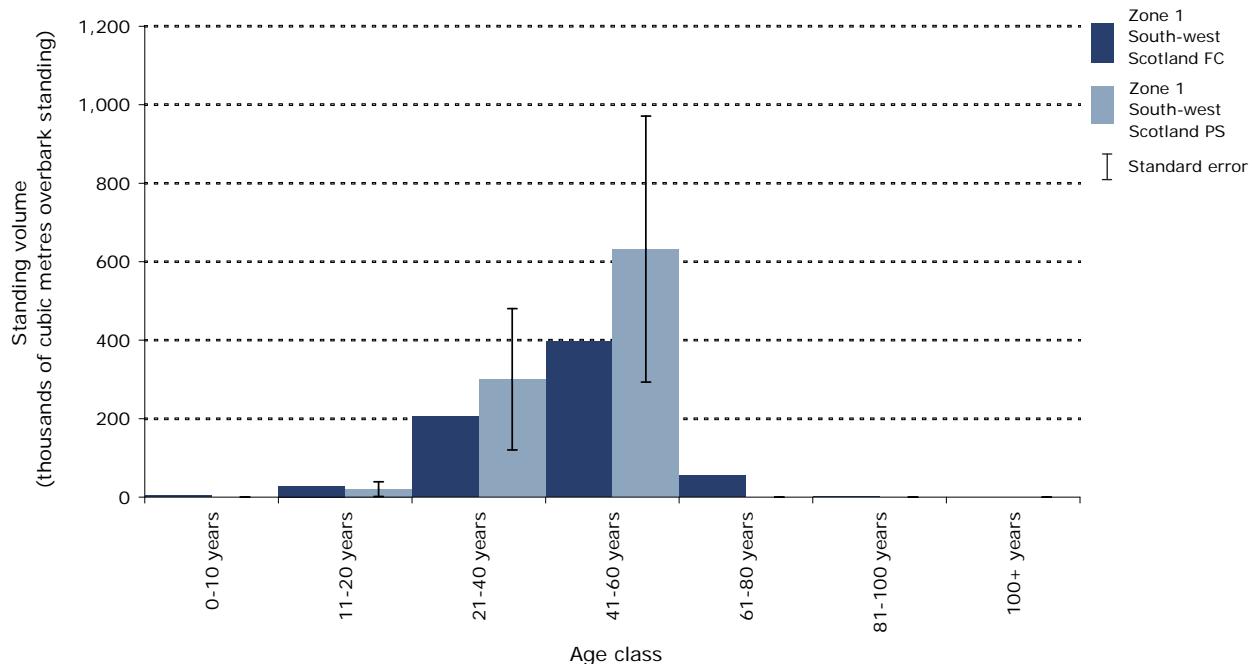
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South-west Scotland (zone 1)</b>				
<b>All conifers</b>	<b>10,425</b>	<b>7,415</b>	<b>10</b>	<b>17,839</b>
Sitka spruce	8,491	5,973	13	14,464
Scots pine	97	204	72	301
Corsican pine	26	0	-	26
Norway spruce	242	145	59	387
Larches	692	953	39	1,646
Douglas fir	44	32	103	77
Lodgepole pine	774	67	78	841
Other conifers	58	23	113	81
<b>All broadleaves</b>	<b>143</b>	<b>2,780</b>	<b>19</b>	<b>2,923</b>
Oak	54	558	51	613
Beech	6	61	42	67
Sycamore	4	412	32	415
Ash	4	843	45	847
Birch	14	184	29	199
Sweet chestnut	0	0	-	0
Hazel	0	20	76	20
Hawthorn	0	60	34	60
Alder	2	109	45	111
Willow	0	5	110	5
Other broadleaves	59	527	54	586
<b>All species</b>	<b>10,568</b>	<b>10,197</b>	<b>8</b>	<b>20,765</b>

**Table 55** Standing volume of larches – south-west Scotland (zone 1)

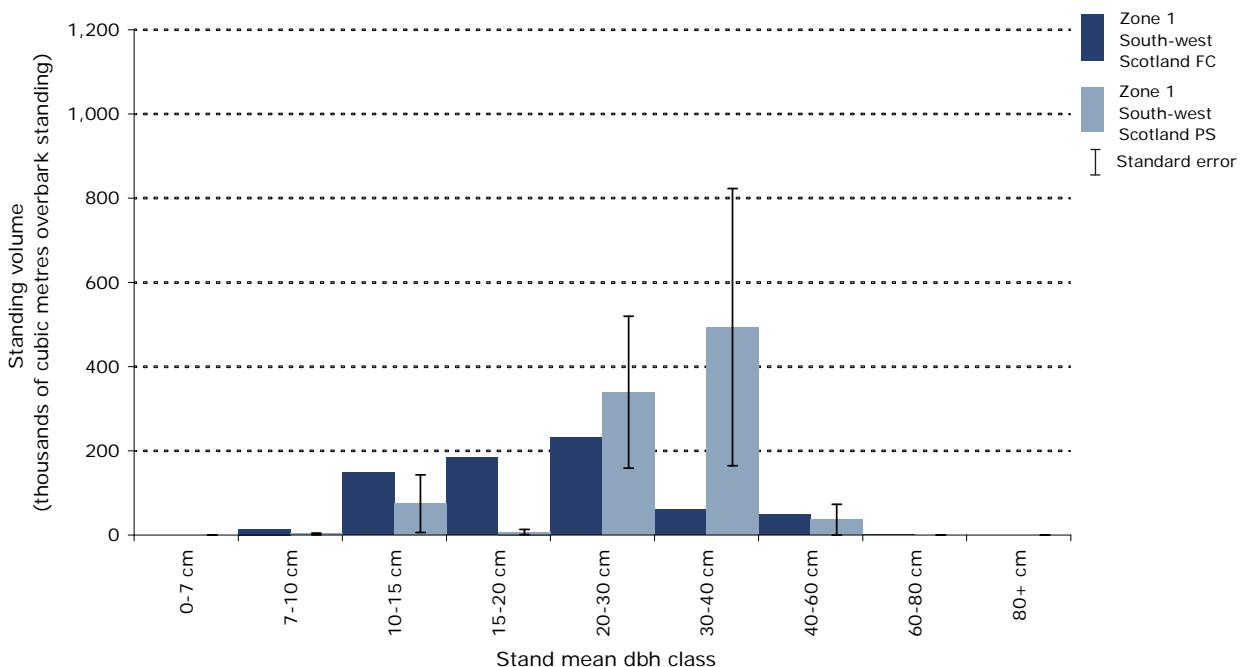
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South-west Scotland (zone 1)</b>				
<b>Larches</b>	<b>692</b>	<b>953</b>	<b>39</b>	<b>1,646</b>
Japanese Larch	565	0	-	565
Hybrid Larch	117	771	46	887
European Larch	11	183	67	193
Other Larch	0	0	-	0

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**Figure 56** Standing volume of larches by age class – south-west Scotland (zone 1)



**Figure 57** Standing volume of larches by stand mean dbh class – south-west Scotland (zone 1)



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**Table 56** Standing volume of larches by age class – south-west Scotland (zone 1)

Age class (years)	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>Larches</b>				
0-10	4	0	-	<b>4</b>
11-20	29	21	92	<b>49</b>
21-40	206	301	60	<b>506</b>
41-60	397	632	54	<b>1,029</b>
61-80	55	0	-	<b>55</b>
81-100	2	0	-	<b>2</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>692</b>	<b>953</b>	<b>39</b>	<b>1,646</b>
<b>Japanese larch</b>				
0-10	1	0	-	<b>1</b>
11-20	18	0	-	<b>18</b>
21-40	165	0	-	<b>165</b>
41-60	330	0	-	<b>330</b>
61-80	50	0	-	<b>50</b>
81-100	1	0	-	<b>1</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>565</b>	<b>0</b>	<b>-</b>	<b>565</b>
<b>Hybrid larch</b>				
0-10	3	0	-	<b>3</b>
11-20	11	21	92	<b>31</b>
21-40	36	170	82	<b>205</b>
41-60	65	580	58	<b>645</b>
61-80	3	0	-	<b>3</b>
81-100	0	0	-	<b>0</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>117</b>	<b>771</b>	<b>46</b>	<b>887</b>
<b>European larch</b>				
0-10	0	0	-	<b>0</b>
11-20	0	0	-	<b>0</b>
21-40	5	131	89	<b>136</b>
41-60	2	52	77	<b>54</b>
61-80	2	0	-	<b>2</b>
81-100	1	0	-	<b>1</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>11</b>	<b>183</b>	<b>67</b>	<b>193</b>

# NFI Provisional Report

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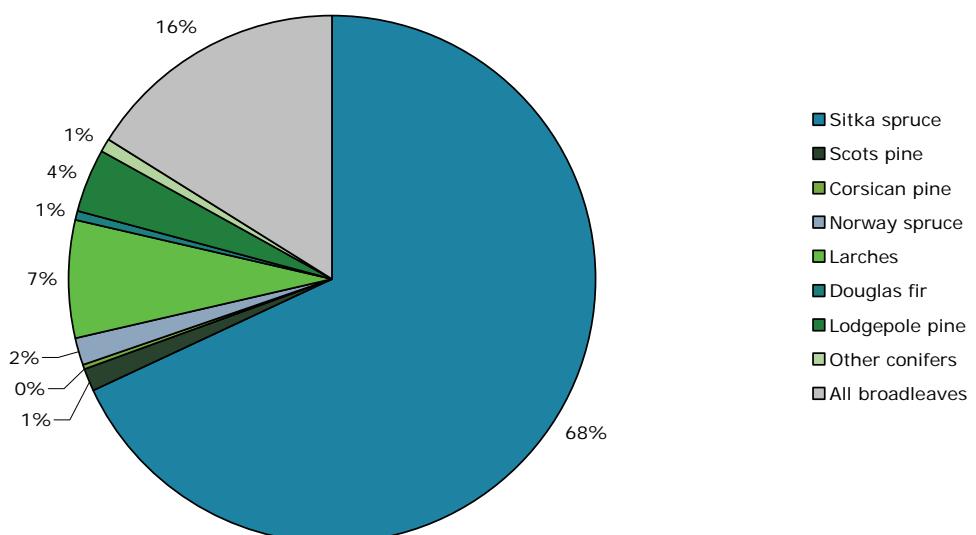
**Table 57** Standing volume of larches by stand mean dbh class – south-west Scotland (zone 1)

Mean stand DBH (cm)	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>Larches</b>				
0-7	0	0	-	<b>0</b>
7-10	14	2	87	<b>17</b>
10-15	149	75	92	<b>224</b>
15-20	185	7	87	<b>192</b>
20-30	233	339	53	<b>572</b>
30-40	61	494	67	<b>555</b>
40-60	50	37	100	<b>87</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>692</b>	<b>953</b>	<b>39</b>	<b>1,646</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	5	0	-	<b>5</b>
10-15	115	0	-	<b>115</b>
15-20	139	0	-	<b>139</b>
20-30	202	0	-	<b>202</b>
30-40	56	0	-	<b>56</b>
40-60	47	0	-	<b>47</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>565</b>	<b>0</b>	<b>-</b>	<b>565</b>
<b>Hybrid larch</b>				
0-7	0	0	-	<b>0</b>
7-10	9	2	87	<b>11</b>
10-15	28	75	92	<b>103</b>
15-20	44	7	87	<b>51</b>
20-30	28	208	68	<b>237</b>
30-40	5	478	69	<b>483</b>
40-60	3	0	-	<b>3</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>117</b>	<b>771</b>	<b>46</b>	<b>887</b>
<b>European larch</b>				
0-7	0	0	-	<b>0</b>
7-10	0	0	-	<b>0</b>
10-15	6	0	-	<b>6</b>
15-20	2	0	-	<b>2</b>
20-30	3	131	89	<b>134</b>
30-40	1	15	107	<b>16</b>
40-60	0	37	100	<b>37</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>11</b>	<b>183</b>	<b>67</b>	<b>193</b>

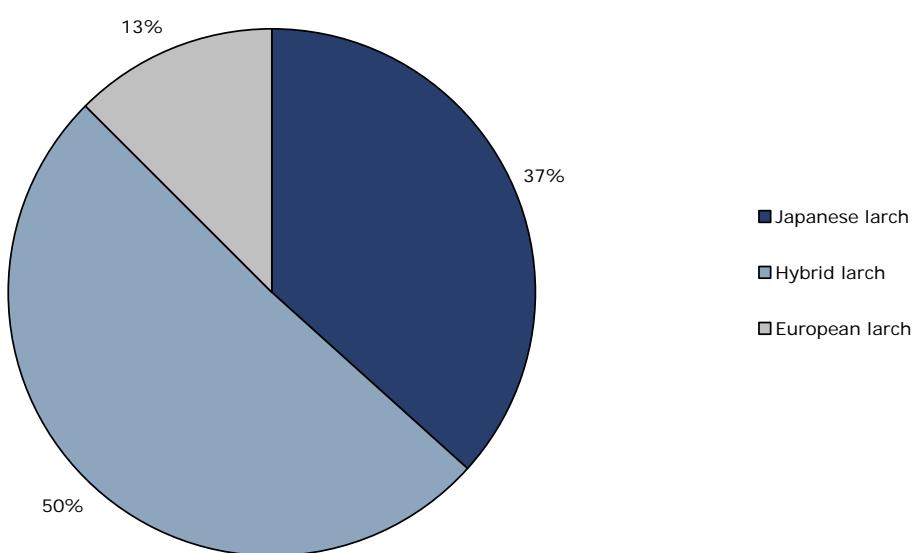
## South-west Scotland (zones 1 + 2)

2011 Stocked area at 31 March 2011

**Figure 58** Species composition (by stocked area) – south-west Scotland (zones 1 + 2)



**Figure 59** Larch species composition (by stocked area) – south-west Scotland (zones 1 + 2)



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**Table 58** Stocked area by principal species – south-west Scotland (zones 1 + 2)

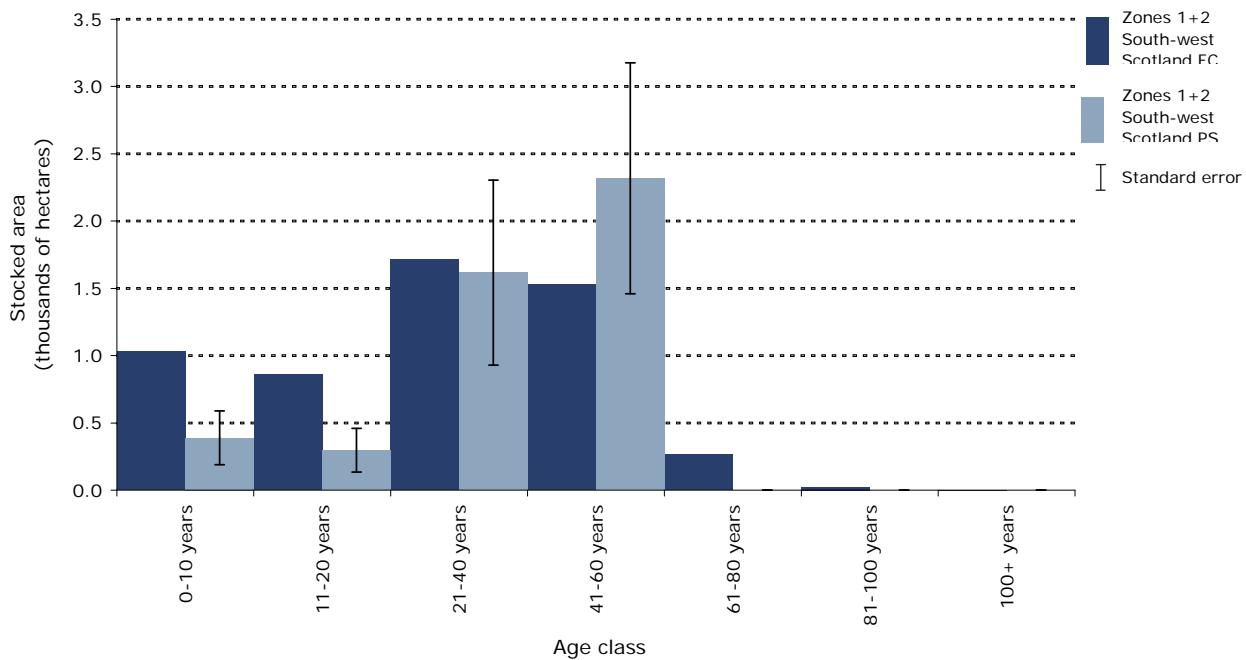
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South-west Scotland (zones 1+2)</b>				
<b>All conifers</b>	<b>67.4</b>	<b>47.9</b>	<b>4</b>	<b>115.3</b>
Sitka spruce	53.8	39.7	6	93.5
Scots pine	1.2	0.9	44	2.0
Corsican pine	0.1	0.0	-	0.1
Norway spruce	1.2	1.1	42	2.4
Larches	5.4	4.6	23	10.0
Douglas fir	0.4	0.4	75	0.8
Lodgepole pine	4.9	0.5	63	5.3
Other conifers	0.4	0.7	51	1.1
<b>All broadleaves</b>	<b>3.8</b>	<b>18.4</b>	<b>10</b>	<b>22.2</b>
Oak	0.5	1.4	27	1.9
Beech	0.1	0.8	32	0.9
Sycamore	0.1	3.0	23	3.1
Ash	0.1	2.0	31	2.0
Birch	0.3	4.6	19	5.0
Sweet chestnut	0.0	0.0	-	0.0
Hazel	0.0	0.5	83	0.5
Hawthorn	0.0	1.3	32	1.3
Alder	0.1	1.1	35	1.2
Willow	0.0	0.7	38	0.7
Other broadleaves	2.7	2.9	27	5.6
<b>All species</b>	<b>71.2</b>	<b>66.2</b>	<b>3</b>	<b>137.4</b>

**Table 59** Stocked area of larches – south-west Scotland (zones 1 + 2)

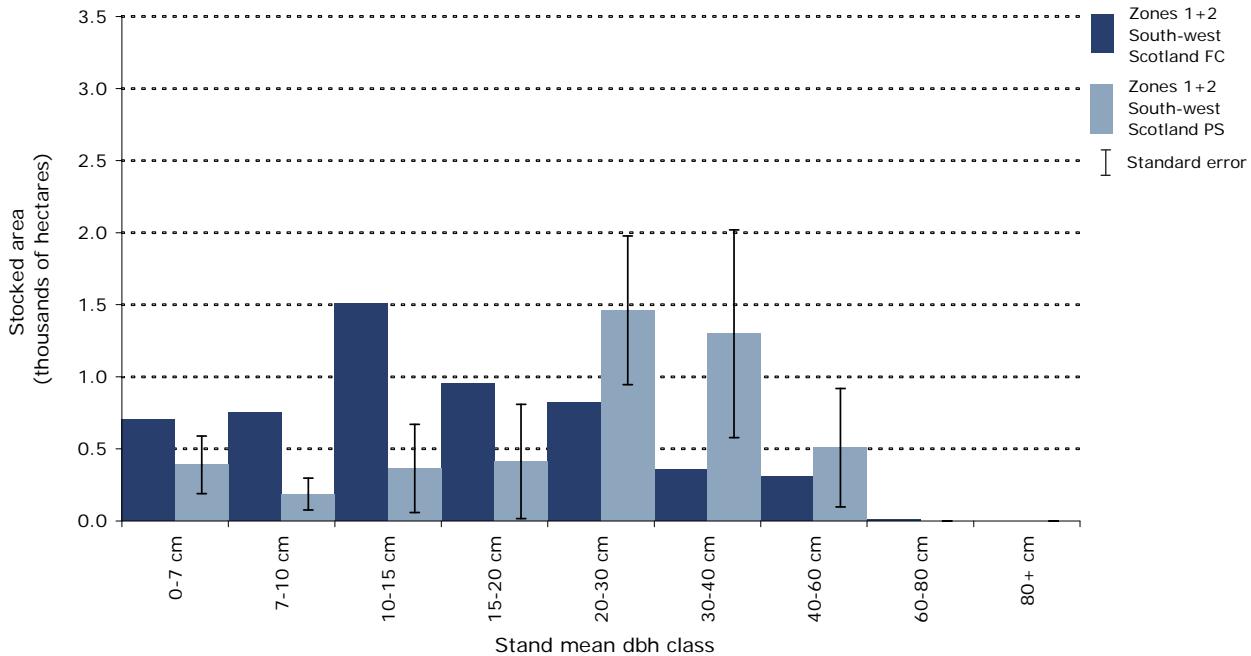
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South-west Scotland (zones 1+2)</b>				
<b>All larches</b>	<b>5.4</b>	<b>4.6</b>	<b>23</b>	<b>10.0</b>
Japanese Larch	3.6	0.0	76	3.7
Hybrid Larch	1.7	3.4	29	5.1
European Larch	0.1	1.2	42	1.3
Other Larch	0.0	0.0	-	0.0

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**Figure 60** Stocked area of larches by age class – south-west Scotland (zones 1 + 2)



**Figure 61** Stocked area of larches by stand mean dbh class – south-west Scotland (zones 1 + 2)



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**Table 60** Stocked area of larches by age class – south-west Scotland (zones 1 + 2)

Age class (years)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	1.0	0.4	51	<b>1.4</b>
11-20	0.9	0.3	54	<b>1.2</b>
21-40	1.7	1.6	43	<b>3.3</b>
41-60	1.5	2.3	37	<b>3.9</b>
61-80	0.3	0.0	-	<b>0.3</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>5.4</b>	<b>4.6</b>	<b>23</b>	<b>10.0</b>
<b>Japanese larch</b>				
0-10	0.5	0.0	-	<b>0.5</b>
11-20	0.4	0.0	96	<b>0.4</b>
21-40	1.2	0.0	86	<b>1.2</b>
41-60	1.2	0.0	-	<b>1.2</b>
61-80	0.3	0.0	-	<b>0.3</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>3.6</b>	<b>0.0</b>	<b>76</b>	<b>3.7</b>
<b>Hybrid larch</b>				
0-10	0.5	0.3	58	<b>0.9</b>
11-20	0.4	0.3	56	<b>0.7</b>
21-40	0.4	1.0	57	<b>1.4</b>
41-60	0.3	1.8	45	<b>2.1</b>
61-80	0.0	0.0	-	<b>0.0</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.7</b>	<b>3.4</b>	<b>29</b>	<b>5.1</b>
<b>European larch</b>				
0-10	0.0	0.1	98	<b>0.1</b>
11-20	0.0	0.0	110	<b>0.0</b>
21-40	0.1	0.6	66	<b>0.6</b>
41-60	0.0	0.5	59	<b>0.5</b>
61-80	0.0	0.0	-	<b>0.0</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.1</b>	<b>1.2</b>	<b>42</b>	<b>1.3</b>

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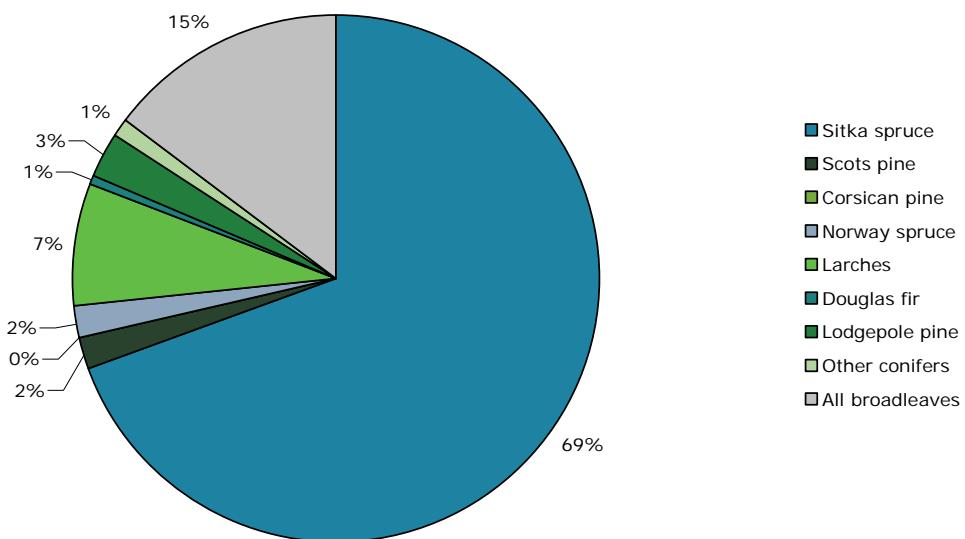
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**Table 61** Stocked area of larches by stand mean dbh class – south-west Scotland (zones 1 + 2)

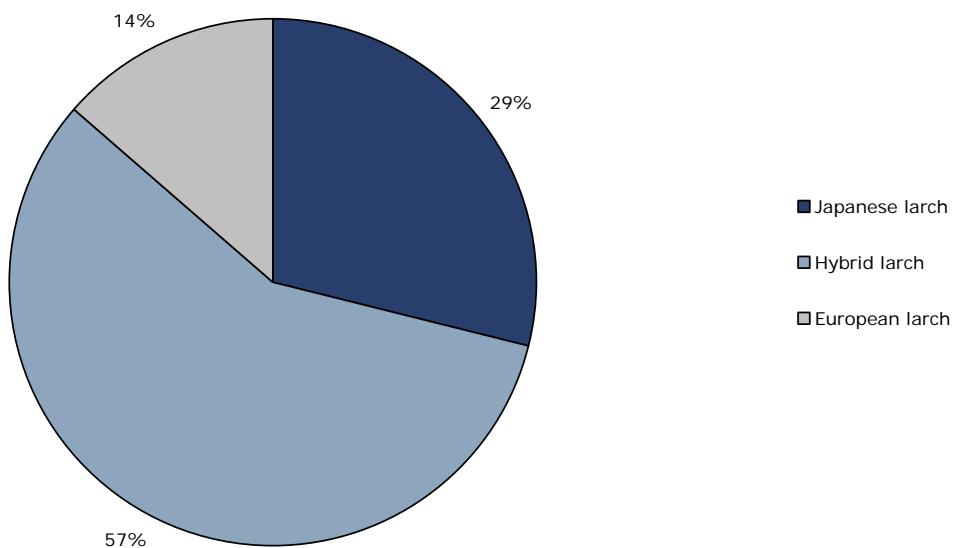
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	0.7	0.4	51	<b>1.1</b>
7-10	0.8	0.2	59	<b>0.9</b>
10-15	1.5	0.4	84	<b>1.9</b>
15-20	1.0	0.4	96	<b>1.4</b>
20-30	0.8	1.5	35	<b>2.3</b>
30-40	0.4	1.3	55	<b>1.7</b>
40-60	0.3	0.5	81	<b>0.8</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>5.4</b>	<b>4.6</b>	<b>23</b>	<b>10.0</b>
<b>Japanese larch</b>				
0-7	0.4	0.0	-	<b>0.4</b>
7-10	0.2	0.0	96	<b>0.2</b>
10-15	1.1	0.0	-	<b>1.1</b>
15-20	0.7	0.0	110	<b>0.7</b>
20-30	0.6	0.0	110	<b>0.7</b>
30-40	0.3	0.0	-	<b>0.3</b>
40-60	0.3	0.0	-	<b>0.3</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>3.6</b>	<b>0.0</b>	<b>76</b>	<b>3.7</b>
<b>Hybrid larch</b>				
0-7	0.3	0.3	58	<b>0.6</b>
7-10	0.5	0.2	62	<b>0.7</b>
10-15	0.4	0.4	84	<b>0.8</b>
15-20	0.2	0.4	96	<b>0.6</b>
20-30	0.2	0.7	47	<b>0.9</b>
30-40	0.0	1.1	64	<b>1.1</b>
40-60	0.0	0.3	110	<b>0.4</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.7</b>	<b>3.4</b>	<b>29</b>	<b>5.1</b>
<b>European larch</b>				
0-7	0.0	0.1	98	<b>0.1</b>
7-10	0.0	0.0	110	<b>0.0</b>
10-15	0.1	0.0	-	<b>0.1</b>
15-20	0.0	0.0	-	<b>0.0</b>
20-30	0.0	0.7	56	<b>0.8</b>
30-40	0.0	0.2	103	<b>0.2</b>
40-60	0.0	0.2	95	<b>0.2</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.1</b>	<b>1.2</b>	<b>42</b>	<b>1.3</b>

2011 Standing volume at 31 March 2011

**Figure 62** Species composition (by standing volume) – south-west Scotland (zones 1 + 2)



**Figure 63** Larch species composition (by standing volume) – south-west Scotland (zones 1 + 2)



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**Table 62** Standing volume by principal species – south-west Scotland (zones 1 + 2)

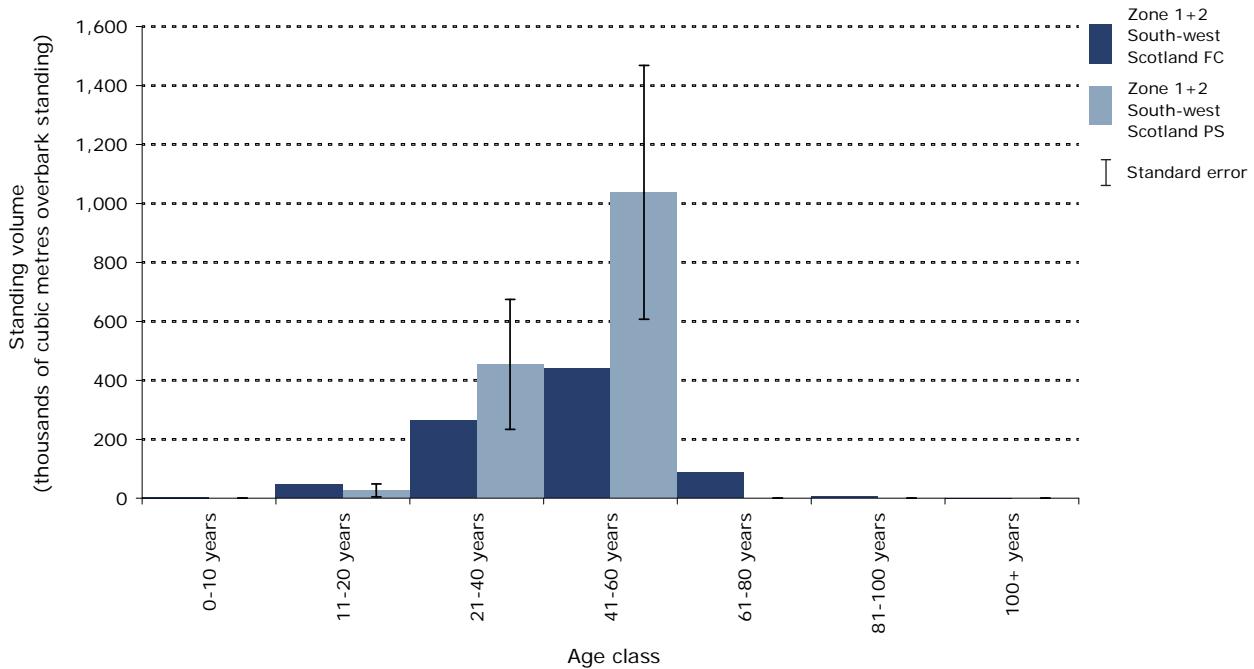
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South-west Scotland (zones 1 + 2)</b>				
<b>All conifers</b>	<b>13,400</b>	<b>13,603</b>	<b>8</b>	<b>27,004</b>
Sitka spruce	11,102	10,865	10	<b>21,967</b>
Scots pine	127	466	62	<b>593</b>
Corsican pine	31	0	-	<b>31</b>
Norway spruce	303	284	53	<b>587</b>
Larches	851	1,518	31	<b>2,369</b>
Douglas fir	77	91	76	<b>169</b>
Lodgepole pine	825	87	70	<b>912</b>
Other conifers	83	275	54	<b>357</b>
<b>All broadleaves</b>	<b>207</b>	<b>4,424</b>	<b>17</b>	<b>4,631</b>
Oak	77	910	39	<b>987</b>
Beech	11	147	34	<b>159</b>
Sycamore	6	860	30	<b>867</b>
Ash	6	1,117	42	<b>1,122</b>
Birch	24	293	24	<b>317</b>
Sweet chestnut	0	0	-	<b>0</b>
Hazel	0	25	72	<b>25</b>
Hawthorn	0	81	32	<b>81</b>
Alder	4	158	39	<b>161</b>
Willow	0	25	57	<b>25</b>
Other broadleaves	79	809	43	<b>888</b>
<b>All species</b>	<b>13,607</b>	<b>17,964</b>	<b>7</b>	<b>31,570</b>

**Table 63** Standing volume of larches – south-west Scotland (zones 1 + 2)

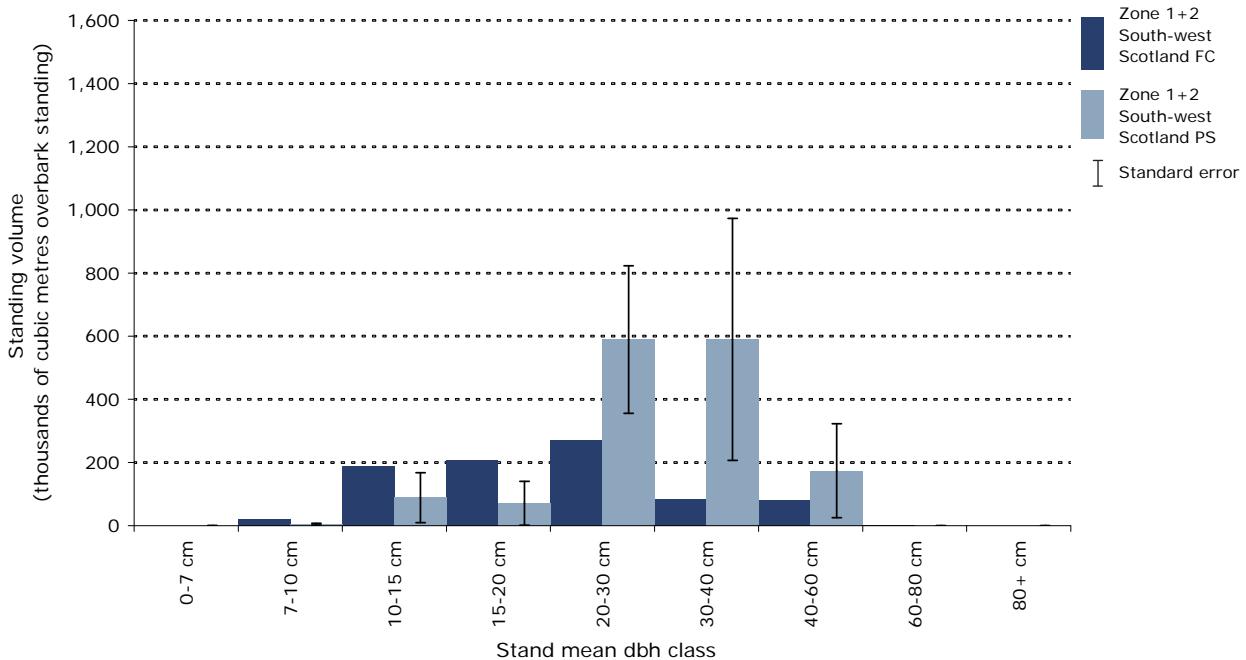
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South-west Scotland (zones 1 + 2)</b>				
<b>Larches</b>	<b>851</b>	<b>1,518</b>	<b>31</b>	<b>2,369</b>
Japanese Larch	679	6	88	<b>685</b>
Hybrid Larch	158	1,203	37	<b>1,361</b>
European Larch	15	309	54	<b>323</b>
Other Larch	0	0	-	<b>0</b>

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**Figure 64** Standing volume of larches by age class – south-west Scotland (zones 1 + 2)



**Figure 65** Standing volume of larches by stand mean dbh class – south-west Scotland (zones 1 + 2)



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**Table 64** Standing volume of larches by age class – south-west Scotland (zones 1 + 2)

Age class (years)	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>Larches</b>				
0-10	5	0	98	<b>5</b>
11-20	48	26	83	<b>74</b>
21-40	264	454	49	<b>718</b>
41-60	441	1,038	42	<b>1,479</b>
61-80	87	0	-	<b>87</b>
81-100	6	0	-	<b>6</b>
100+	1	0	-	<b>1</b>
<b>Total</b>	<b>851</b>	<b>1,518</b>	<b>31</b>	<b>2,369</b>
<b>Japanese larch</b>				
0-10	1	0	-	<b>1</b>
11-20	27	0	96	<b>27</b>
21-40	198	6	89	<b>204</b>
41-60	368	0	-	<b>368</b>
61-80	82	0	-	<b>82</b>
81-100	3	0	-	<b>3</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>679</b>	<b>6</b>	<b>88</b>	<b>685</b>
<b>Hybrid larch</b>				
0-10	3	0	-	<b>3</b>
11-20	20	26	84	<b>46</b>
21-40	61	288	61	<b>348</b>
41-60	71	889	47	<b>960</b>
61-80	3	0	-	<b>3</b>
81-100	0	0	-	<b>0</b>
100+	0	0	-	<b>0</b>
<b>Total</b>	<b>158</b>	<b>1,203</b>	<b>37</b>	<b>1,361</b>
<b>European larch</b>				
0-10	0	0	98	<b>0</b>
11-20	0	0	110	<b>0</b>
21-40	6	160	84	<b>166</b>
41-60	3	148	67	<b>151</b>
61-80	3	0	-	<b>3</b>
81-100	3	0	-	<b>3</b>
100+	1	0	-	<b>1</b>
<b>Total</b>	<b>15</b>	<b>309</b>	<b>54</b>	<b>323</b>

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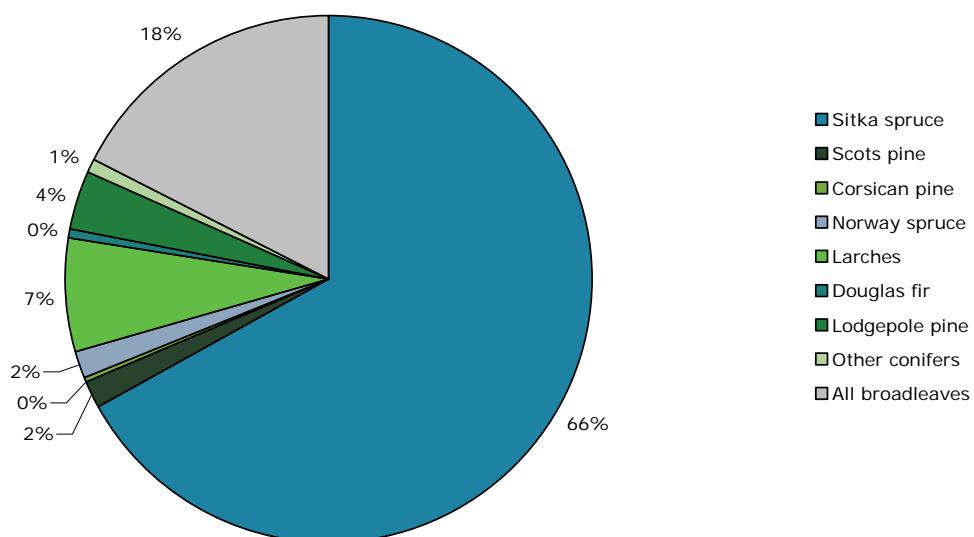
**Table 65** Standing volume of larches by stand mean dbh class – south-west Scotland (zones 1 + 2)

Mean stand DBH (cm)	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>Larches</b>				
0-7	0	0	98	<b>0</b>
7-10	19	5	60	<b>24</b>
10-15	188	89	89	<b>277</b>
15-20	207	71	98	<b>278</b>
20-30	271	589	40	<b>860</b>
30-40	83	590	65	<b>673</b>
40-60	82	174	86	<b>256</b>
60-80	1	0	-	<b>1</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>851</b>	<b>1,518</b>	<b>31</b>	<b>2,369</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	7	0	96	<b>7</b>
10-15	141	0	-	<b>141</b>
15-20	154	1	110	<b>156</b>
20-30	225	5	110	<b>230</b>
30-40	72	0	-	<b>72</b>
40-60	77	0	-	<b>77</b>
60-80	1	0	-	<b>1</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>679</b>	<b>6</b>	<b>88</b>	<b>685</b>
<b>Hybrid larch</b>				
0-7	0	0	-	<b>0</b>
7-10	12	5	63	<b>17</b>
10-15	40	89	89	<b>129</b>
15-20	51	70	97	<b>121</b>
20-30	40	339	52	<b>379</b>
30-40	10	571	67	<b>581</b>
40-60	5	130	110	<b>135</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>158</b>	<b>1,203</b>	<b>37</b>	<b>1,361</b>
<b>European larch</b>				
0-7	0	0	98	<b>0</b>
7-10	0	0	110	<b>0</b>
10-15	6	0	-	<b>6</b>
15-20	2	0	-	<b>2</b>
20-30	5	246	65	<b>251</b>
30-40	1	18	103	<b>19</b>
40-60	0	44	95	<b>44</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>15</b>	<b>309</b>	<b>54</b>	<b>323</b>

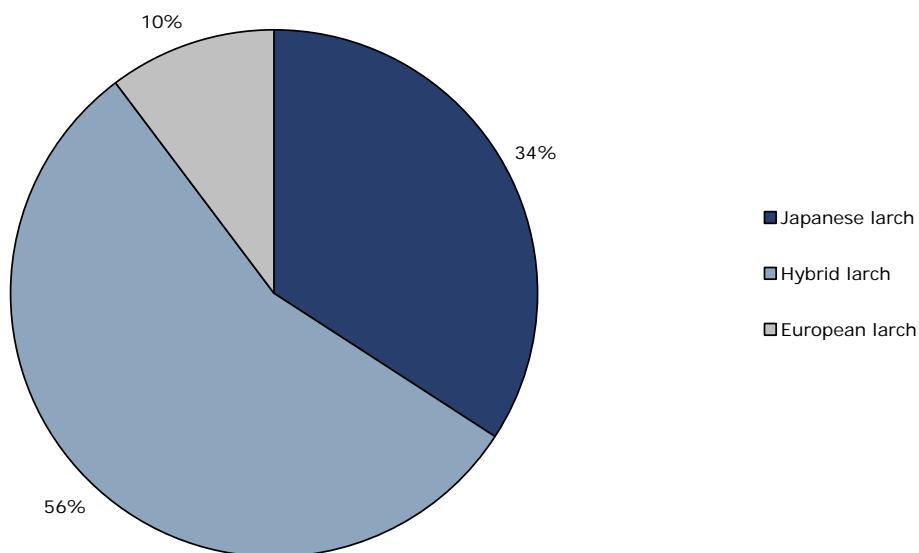
## South-west Scotland (zones 1 + 2 + 3)

2011 Stocked area at 31 March 2011

**Figure 66** Species composition (by stocked area) – south-west Scotland (zones 1 + 2 + 3)



**Figure 67** Larch species composition (by stocked area) – south-west Scotland (zones 1 + 2 + 3)



# NFI Provisional Report

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**Table 66** Stocked area by principal species – south-west Scotland (zones 1 + 2 + 3)

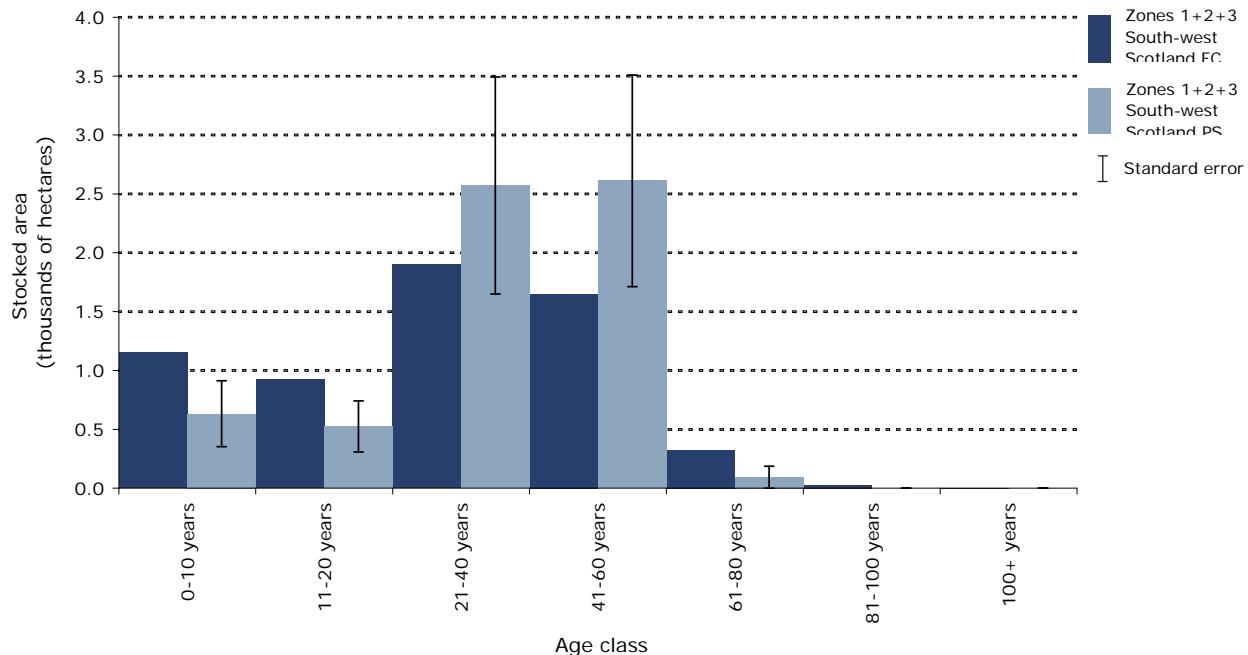
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South-west Scotland (zones 1+2+3)</b>				
<b>All conifers</b>	<b>80.1</b>	<b>68.9</b>	<b>4</b>	<b>149.0</b>
Sitka spruce	65.0	56.2	5	<b>121.2</b>
Scots pine	1.3	1.7	42	<b>3.0</b>
Corsican pine	0.1	0.0	-	<b>0.1</b>
Norway spruce	1.6	1.7	36	<b>3.3</b>
Larches	6.0	6.4	20	<b>12.4</b>
Douglas fir	0.5	0.4	69	<b>0.9</b>
Lodgepole pine	5.3	1.5	46	<b>6.8</b>
Other conifers	0.4	0.8	45	<b>1.2</b>
<b>All broadleaves</b>	<b>4.3</b>	<b>27.5</b>	<b>7</b>	<b>31.8</b>
Oak	0.5	2.8	22	<b>3.2</b>
Beech	0.1	2.2	30	<b>2.3</b>
Sycamore	0.1	3.9	20	<b>4.0</b>
Ash	0.1	3.2	25	<b>3.2</b>
Birch	0.4	6.0	17	<b>6.5</b>
Sweet chestnut	0.0	0.0	-	<b>0.0</b>
Hazel	0.0	0.7	63	<b>0.7</b>
Hawthorn	0.0	3.1	30	<b>3.1</b>
Alder	0.1	1.3	31	<b>1.4</b>
Willow	0.0	1.3	32	<b>1.3</b>
Other broadleaves	3.1	3.1	26	<b>6.1</b>
<b>All species</b>	<b>84.4</b>	<b>96.2</b>	<b>3</b>	<b>180.6</b>

**Table 67** Stocked area of larches – south-west Scotland (zones 1 + 2 + 3)

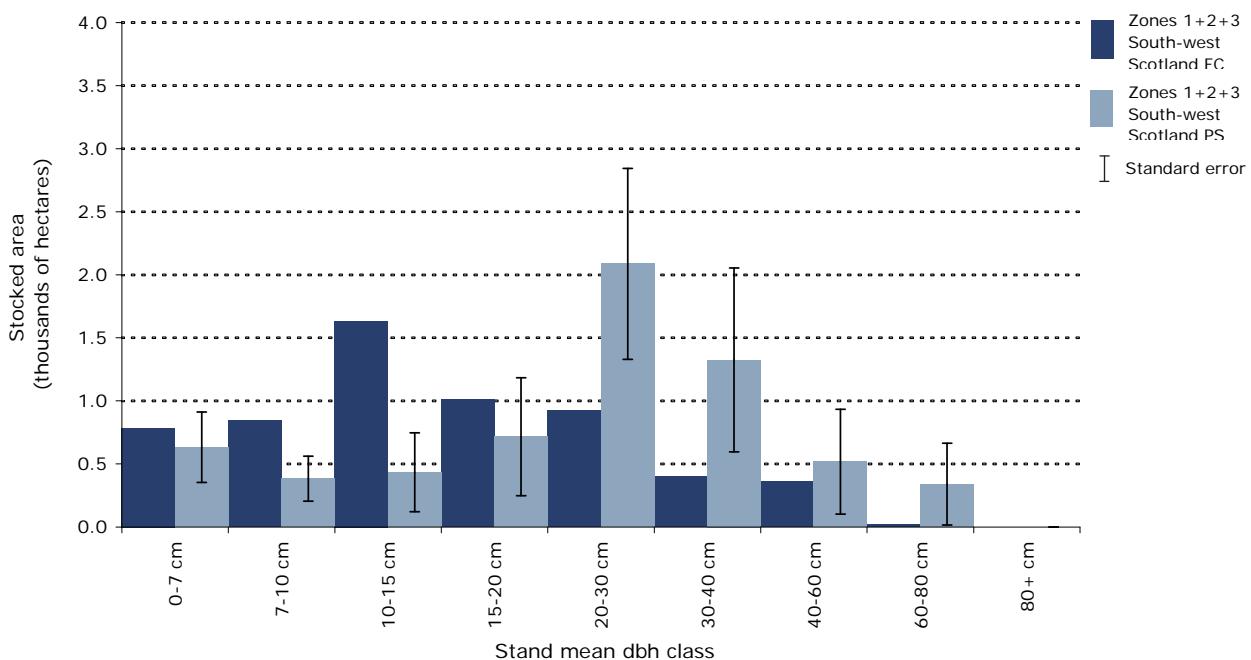
Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>South-west Scotland (zones 1+2+3)</b>				
<b>All larches</b>	<b>6.0</b>	<b>6.4</b>	<b>20</b>	<b>12.4</b>
Japanese Larch	4.0	0.3	86	<b>4.3</b>
Hybrid Larch	1.9	5.0	24	<b>6.9</b>
European Larch	0.1	1.2	42	<b>1.3</b>
Other Larch	0.0	0.0	-	<b>0.0</b>

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**Figure 68** Stocked area of larches by age class – south-west Scotland (zones 1 + 2 + 3)



**Figure 69** Stocked area of larches by stand mean dbh class – south-west Scotland (zones 1 + 2 + 3)



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**Table 68** Stocked area of larches by age class – south-west Scotland (zones 1 + 2 + 3)

Age class (years)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-10	1.2	0.6	44	<b>1.8</b>
11-20	0.9	0.5	41	<b>1.4</b>
21-40	1.9	2.6	36	<b>4.5</b>
41-60	1.6	2.6	34	<b>4.3</b>
61-80	0.3	0.1	109	<b>0.4</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>6.0</b>	<b>6.4</b>	<b>20</b>	<b>12.4</b>
<b>Japanese larch</b>				
0-10	0.5	0.0	-	<b>0.5</b>
11-20	0.4	0.0	94	<b>0.4</b>
21-40	1.3	0.3	87	<b>1.6</b>
41-60	1.3	0.0	-	<b>1.3</b>
61-80	0.3	0.0	-	<b>0.3</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>4.0</b>	<b>0.3</b>	<b>86</b>	<b>4.3</b>
<b>Hybrid larch</b>				
0-10	0.6	0.6	48	<b>1.2</b>
11-20	0.5	0.5	42	<b>1.0</b>
21-40	0.5	1.7	47	<b>2.2</b>
41-60	0.3	2.1	41	<b>2.4</b>
61-80	0.0	0.1	109	<b>0.1</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.9</b>	<b>5.0</b>	<b>24</b>	<b>6.9</b>
<b>European larch</b>				
0-10	0.0	0.1	96	<b>0.1</b>
11-20	0.0	0.0	109	<b>0.0</b>
21-40	0.1	0.6	66	<b>0.6</b>
41-60	0.0	0.5	58	<b>0.6</b>
61-80	0.0	0.0	-	<b>0.0</b>
81-100	0.0	0.0	-	<b>0.0</b>
100+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.1</b>	<b>1.2</b>	<b>42</b>	<b>1.3</b>

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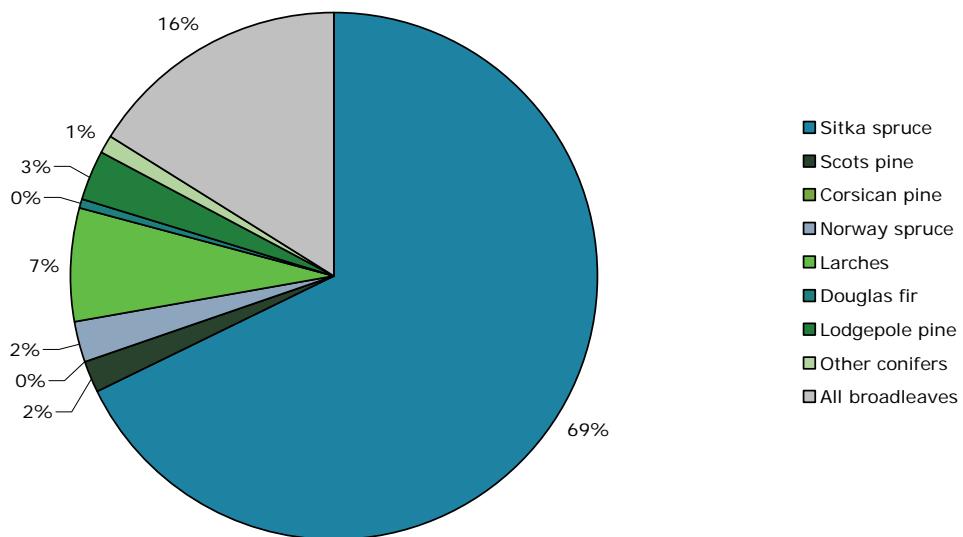
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**Table 69** Stocked area of larches by stand mean dbh class – south-west Scotland (zones 1 + 2 + 3)

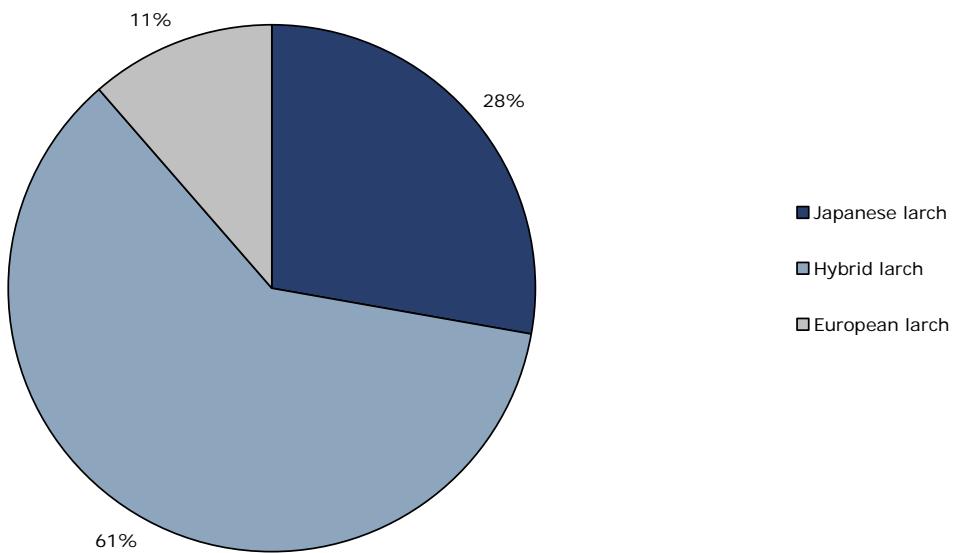
Mean stand DBH (cm)	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
<b>Larches</b>				
0-7	0.8	0.6	44	<b>1.4</b>
7-10	0.8	0.4	47	<b>1.2</b>
10-15	1.6	0.4	72	<b>2.1</b>
15-20	1.0	0.7	65	<b>1.7</b>
20-30	0.9	2.1	36	<b>3.0</b>
30-40	0.4	1.3	55	<b>1.7</b>
40-60	0.4	0.5	80	<b>0.9</b>
60-80	0.0	0.3	95	<b>0.4</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>6.0</b>	<b>6.4</b>	<b>20</b>	<b>12.4</b>
<b>Japanese larch</b>				
0-7	0.4	0.0	-	<b>0.4</b>
7-10	0.3	0.0	73	<b>0.3</b>
10-15	1.1	0.0	0	<b>1.1</b>
15-20	0.7	0.3	95	<b>1.0</b>
20-30	0.7	0.0	109	<b>0.7</b>
30-40	0.3	0.0	-	<b>0.3</b>
40-60	0.3	0.0	-	<b>0.3</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>4.0</b>	<b>0.3</b>	<b>86</b>	<b>4.3</b>
<b>Hybrid larch</b>				
0-7	0.4	0.6	48	<b>0.9</b>
7-10	0.6	0.4	48	<b>1.0</b>
10-15	0.4	0.4	72	<b>0.9</b>
15-20	0.3	0.5	85	<b>0.7</b>
20-30	0.2	1.3	49	<b>1.5</b>
30-40	0.1	1.1	63	<b>1.2</b>
40-60	0.0	0.4	109	<b>0.4</b>
60-80	0.0	0.3	95	<b>0.3</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>1.9</b>	<b>5.0</b>	<b>24</b>	<b>6.9</b>
<b>European larch</b>				
0-7	0.0	0.1	96	<b>0.1</b>
7-10	0.0	0.0	109	<b>0.0</b>
10-15	0.1	0.0	-	<b>0.1</b>
15-20	0.0	0.0	-	<b>0.0</b>
20-30	0.0	0.7	56	<b>0.8</b>
30-40	0.0	0.2	101	<b>0.2</b>
40-60	0.0	0.2	95	<b>0.2</b>
60-80	0.0	0.0	-	<b>0.0</b>
80+	0.0	0.0	-	<b>0.0</b>
<b>Total</b>	<b>0.1</b>	<b>1.2</b>	<b>42</b>	<b>1.3</b>

2011 Standing volume at 31 March 2011

**Figure 70** Species composition (by standing volume) – south-west Scotland (zones 1 + 2 + 3)



**Figure 71** Larch species composition (by standing volume) – south-west Scotland (zones 1 + 2 + 3)



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**Table 70** Standing volume by principal species – south-west Scotland (zones 1 + 2 + 3)

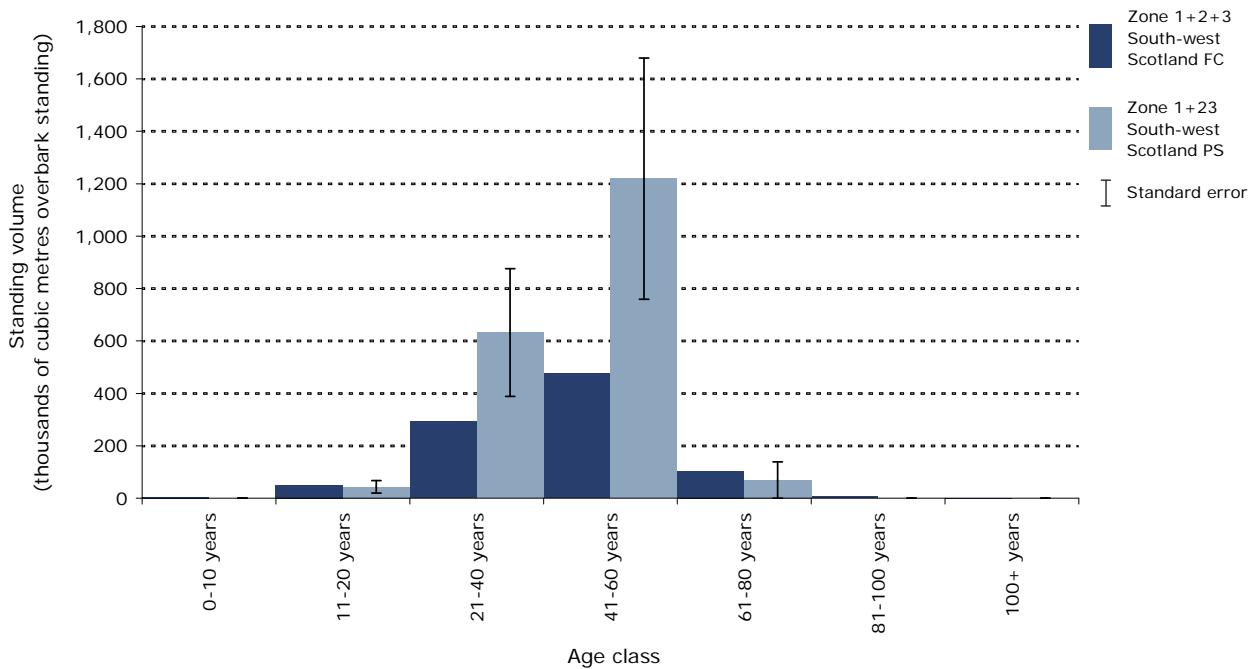
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South-west Scotland (zones 1 + 2 + 3)</b>				
<b>All conifers</b>	<b>16,110</b>	<b>18,543</b>	<b>7</b>	<b>34,653</b>
Sitka spruce	13,492	14,498	9	<b>27,990</b>
Scots pine	133	658	51	<b>791</b>
Corsican pine	32	0	-	<b>32</b>
Norway spruce	426	573	42	<b>999</b>
Larches	936	1,966	27	<b>2,902</b>
Douglas fir	86	106	67	<b>192</b>
Lodgepole pine	911	348	51	<b>1,259</b>
Other conifers	94	375	46	<b>469</b>
<b>All broadleaves</b>	<b>237</b>	<b>6,391</b>	<b>15</b>	<b>6,628</b>
Oak	78	1,708	29	<b>1,786</b>
Beech	14	820	43	<b>834</b>
Sycamore	7	963	28	<b>970</b>
Ash	6	1,355	36	<b>1,361</b>
Birch	36	395	27	<b>432</b>
Sweet chestnut	0	0	-	<b>0</b>
Hazel	0	26	69	<b>26</b>
Hawthorn	0	92	28	<b>92</b>
Alder	4	185	35	<b>190</b>
Willow	0	44	37	<b>44</b>
Other broadleaves	91	802	43	<b>894</b>
<b>All species</b>	<b>16,347</b>	<b>24,863</b>	<b>6</b>	<b>41,210</b>

**Table 71** Standing volume of larches – south-west Scotland (zones 1 + 2 + 3)

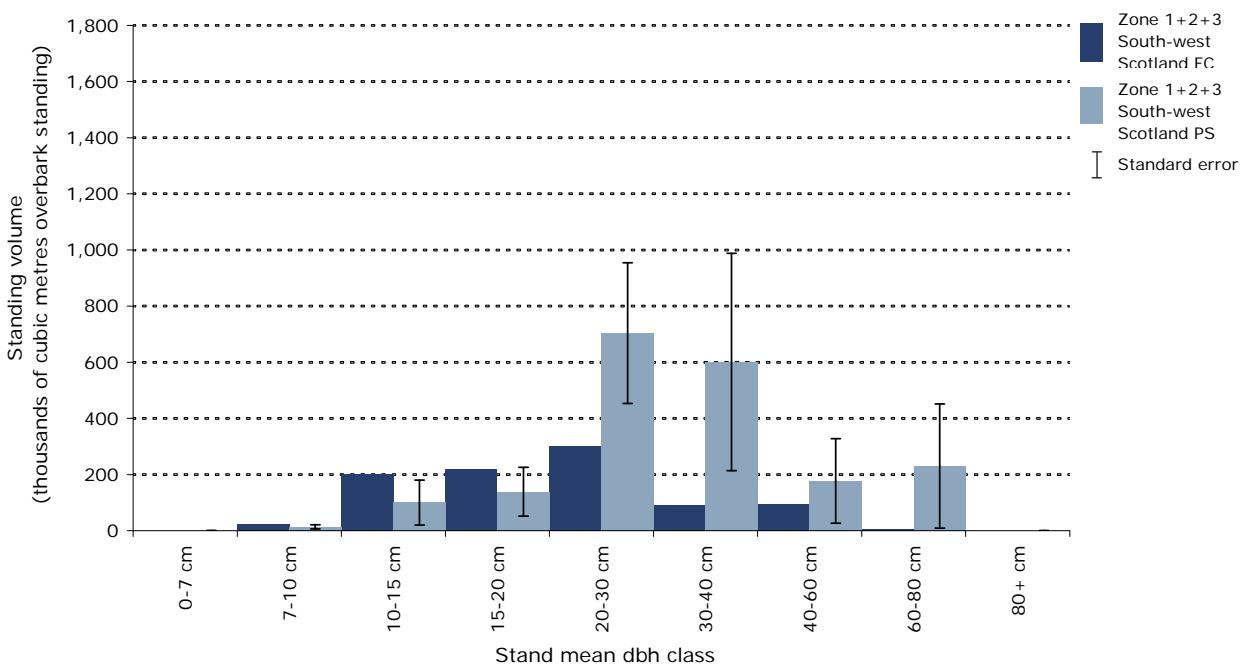
Principal species	FC	Private sector		Total
	volume (000 m <sup>3</sup> obs)	volume (000 m <sup>3</sup> obs)	SE%	volume (000 m <sup>3</sup> obs)
<b>South-west Scotland (zones 1 + 2 + 3)</b>				
<b>Larches</b>	<b>936</b>	<b>1,966</b>	<b>27</b>	<b>2,902</b>
Japanese Larch	745	58	87	<b>803</b>
Hybrid Larch	175	1,595	32	<b>1,770</b>
European Larch	15	314	54	<b>329</b>
Other Larch	0	0	-	<b>0</b>

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**Figure 72** Standing volume of larches by age class – south-west Scotland (zones 1 + 2 + 3)



**Figure 73** Standing volume of larches by stand mean dbh class – south-west Scotland (zones 1 + 2 + 3)



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**Table 72** Standing volume of larches by age class – south-west Scotland (zones 1 + 2 + 3)

Age class (years)	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>Larches</b>				
0-10	5	0	96	5
11-20	51	44	54	95
21-40	292	633	38	925
41-60	477	1,220	38	1,696
61-80	104	70	109	173
81-100	6	0	-	6
100+	1	0	-	1
<b>Total</b>	<b>936</b>	<b>1,966</b>	<b>27</b>	<b>2,902</b>
<b>Japanese larch</b>				
0-10	1	0	-	1
11-20	29	0	94	29
21-40	216	58	87	274
41-60	399	0	-	399
61-80	98	0	-	98
81-100	3	0	-	3
100+	0	0	-	0
<b>Total</b>	<b>745</b>	<b>58</b>	<b>87</b>	<b>803</b>
<b>Hybrid larch</b>				
0-10	4	0	-	4
11-20	22	44	-	66
21-40	70	413	48	483
41-60	75	1,068	42	1,144
61-80	3	70	109	73
81-100	1	0	-	1
100+	0	0	-	0
<b>Total</b>	<b>175</b>	<b>1,595</b>	<b>32</b>	<b>1,770</b>
<b>European larch</b>				
0-10	0	0	96	0
11-20	0	0	109	0
21-40	6	162	84	168
41-60	3	151	67	154
61-80	3	0	-	3
81-100	3	0	-	3
100+	1	0	-	1
<b>Total</b>	<b>15</b>	<b>314</b>	<b>54</b>	<b>329</b>

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**Table 73** Standing volume of larches by stand mean dbh class – south-west Scotland (zones 1 + 2 + 3)

Mean stand DBH (cm)	FC volume (000 m <sup>3</sup> obs)	Private sector volume (000 m <sup>3</sup> obs)	SE%	Total volume (000 m <sup>3</sup> obs)
<b>Larches</b>				
0-7	0	0	96	<b>0</b>
7-10	21	14	53	<b>35</b>
10-15	201	100	80	<b>301</b>
15-20	219	139	63	<b>358</b>
20-30	301	704	36	<b>1,005</b>
30-40	93	601	64	<b>694</b>
40-60	96	177	85	<b>273</b>
60-80	5	230	96	<b>235</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>936</b>	<b>1,966</b>	<b>27</b>	<b>2,902</b>
<b>Japanese larch</b>				
0-7	0	0	-	<b>0</b>
7-10	7	0	72	<b>7</b>
10-15	149	0	-	<b>149</b>
15-20	164	53	95	<b>216</b>
20-30	251	5	109	<b>256</b>
30-40	81	0	-	<b>81</b>
40-60	90	0	-	<b>90</b>
60-80	4	0	-	<b>4</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>745</b>	<b>58</b>	<b>87</b>	<b>803</b>
<b>Hybrid larch</b>				
0-7	0	0	-	<b>0</b>
7-10	14	13	54	<b>28</b>
10-15	46	100	80	<b>146</b>
15-20	54	86	81	<b>140</b>
20-30	44	449	44	<b>494</b>
30-40	11	582	66	<b>593</b>
40-60	6	133	109	<b>138</b>
60-80	0	230	96	<b>231</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>175</b>	<b>1,595</b>	<b>32</b>	<b>1,770</b>
<b>European larch</b>				
0-7	0	0	96	<b>0</b>
7-10	0	0	109	<b>0</b>
10-15	6	0	-	<b>6</b>
15-20	2	0	-	<b>2</b>
20-30	6	250	65	<b>255</b>
30-40	1	19	101	<b>20</b>
40-60	0	45	95	<b>45</b>
60-80	0	0	-	<b>0</b>
80+	0	0	-	<b>0</b>
<b>Total</b>	<b>15</b>	<b>314</b>	<b>54</b>	<b>329</b>

## NFI national reports and papers

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

- GB 2011 preliminary estimates of broadleaved species
- GB 2011 standing coniferous timber volume
- UK 25-year forecast of softwood availability
- GB 25-year forecast of coniferous standing volume and increment

Each theme has a series of associated reports, papers and data, tailored for different audiences and uses. All the documents and data can be found on the NFI website [www.forestry.gov.uk/inventory](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).

## References

- MACDONALD, E., MOCHAN, S., CONNOLLY, T (2001).  
*Protocol for Stem Straightness Assessment in Sitka Spruce*  
Forestry Commission Information Note 39.  
Forestry Commission, Edinburgh.
- METHLEY, J. (1998).  
*Timber quality: a pilot study for assessing straightness.*  
Forestry Commission Information Note 10.  
Forestry Commission, Edinburgh.

## 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