

NFI provisional estimates for woodland in catchment areas in Wales

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

Date: November 2014

Enquiries: Ben Ditchburn, 0300 067 5064
NFI@forestry.gsi.gov.uk

Statistician: Alan Brewer,
alan.brewer@forestry.gsi.gov.uk

Website: www.forestry.gov.uk/inventory
www.forestry.gov.uk/forecast

Summary

This report provides a picture of the tree species diversity within woodland summarised by River Basin Districts (RBD) and broken out by catchment areas in Wales. These estimates are a subset of those published as part of the 2012 growing stock information presented in the National Forest Inventory (NFI) *50-year forecasts of softwood timber availability* and *50-year forecast of hardwood timber availability*. NFI reports are published at www.forestry.gov.uk/inventory.

The estimates provided in this report are provisional in nature.

Contents

Approach	5
Results	5
Dee River Basin District.....	6
Severn River Basin District	8
Western Wales River Basin District.....	14
NFI national reports and papers	19
Glossary	19

Maps

Map 1 Dee River Basin District	6
Map 2 Severn River Basin District	8
Map 3 Western Wales River Basin District	14

Tables

Table 1 Stocked area by principal tree species at 31 March 2012 – Dee River Basin District	7
Table 2 Stocked area by principal tree species at 31 March 2012 – Severn River Basin District	10
Table 3 Stocked area by principal tree species at 31 March 2012 – Western Wales River Basin District.....	16

Figures

Figure 1 Principal tree species composition by stocked area at 31 March 2012 – Dee River Basin District.....	7
Figure 2 Principal tree species composition by stocked area at 31 March 2012 – Severn River Basin District.....	9
Figure 3 Principal tree species composition by stocked area at 31 March 2012 – Shropshire Middle Severn and Severn Uplands catchments	11
Figure 4 Principal tree species composition by stocked area at 31 March 2012 – Teme catchment.....	11
Figure 5 Principal tree species composition by stocked area at 31 March 2012 – Wye catchment.....	12
Figure 6 Principal tree species composition by stocked area at 31 March 2012 – Usk catchment.....	12
Figure 7 Principal tree species composition by stocked area at 31 March 2012 – South East Valleys catchment	13
Figure 8 Principal tree species composition by stocked area at 31 March 2012 – Western Wales River Basin District	15
Figure 9 Principal tree species composition by stocked area at 31 March 2012 – Conwy and Clwyd and North West Wales catchments	17
Figure 10 Principal tree species composition by stocked area at 31 March 2012 – South West Wales catchment.....	17
Figure 11 Principal tree species composition by stocked area at 31 March 2012 – Loughor to Taf catchment	18
Figure 12 Principal tree species composition by stocked area at 31 March 2012 – Ogmore to Tawe catchment.....	18

Approach

The approach taken in the derivation of these results and to be used in their interpretation is described in the full suite of forecast reports which can be found at www.forestry.gov.uk/forecast. Refer to the *Standing timber volume in coniferous trees in Britain* (2012) and the *NFI preliminary estimates of quantities of broadleaved species in British Woodlands with special focus on ash* (2012) reports for a description of the underlying methodologies and interpretation, and also for the GB context.

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

Results

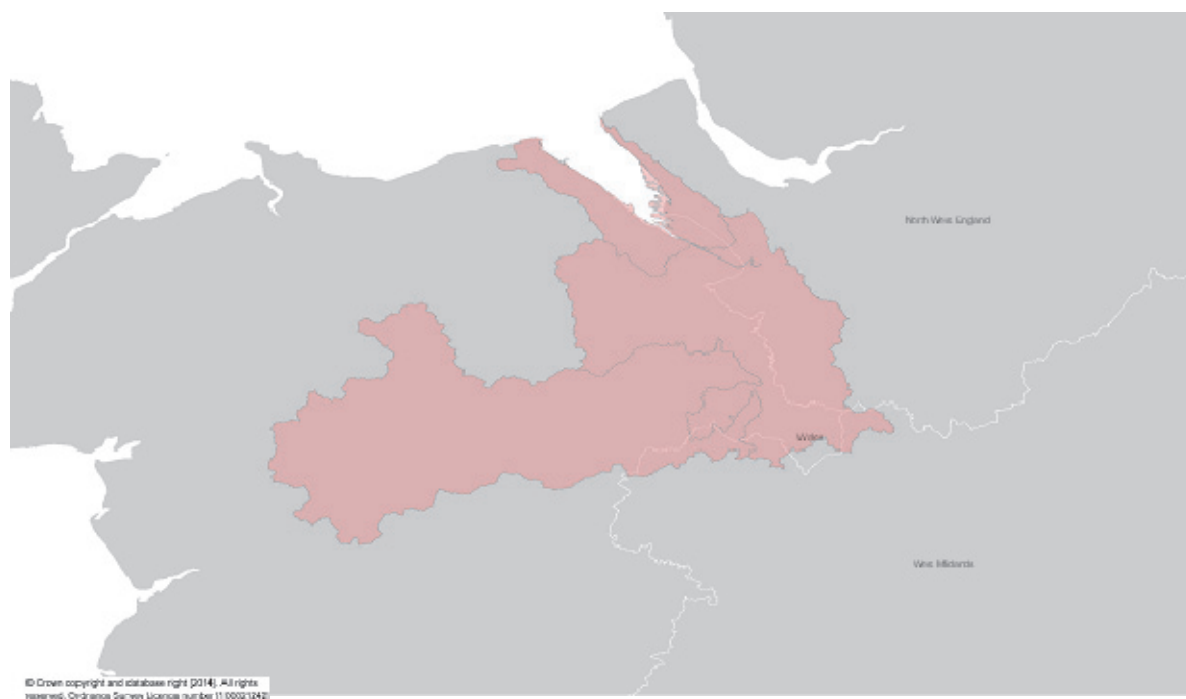
The results presented in this report are estimates of stocked area for the principal woodland tree species at 31 March 2012. As this report provides a picture of the species diversity within catchment areas in Wales, the estimates have not been broken down by the ownership categories as in the main suite of NFI reports. Furthermore, the estimates have been derived solely from information collected in the NFI field survey which covers all woodland in Wales that is more than 0.5ha in size irrespective of whether publicly or privately owned and managed. A fuller description of this data source and how it is used in the production of estimates, including sampling standard errors attached to the estimates, is provided in the earlier published documents.

Estimates are provided for stocked area at 31 March 2012 for the Dee River Basin District (**Figure 1** and **Table 1**), the Severn River Basin District and the catchment areas within this RBD (**Figures 2-7** and **Table 2**), and the Western Wales River Basin District and the catchment areas within this RBD (**Figures 8-12** and **Table 3**).

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

Dee River Basin District

Map 1 Dee River Basin District



NFI Provisional Report

Figure 1 Principal tree species composition by stocked area at 31 March 2012 – Dee River Basin District

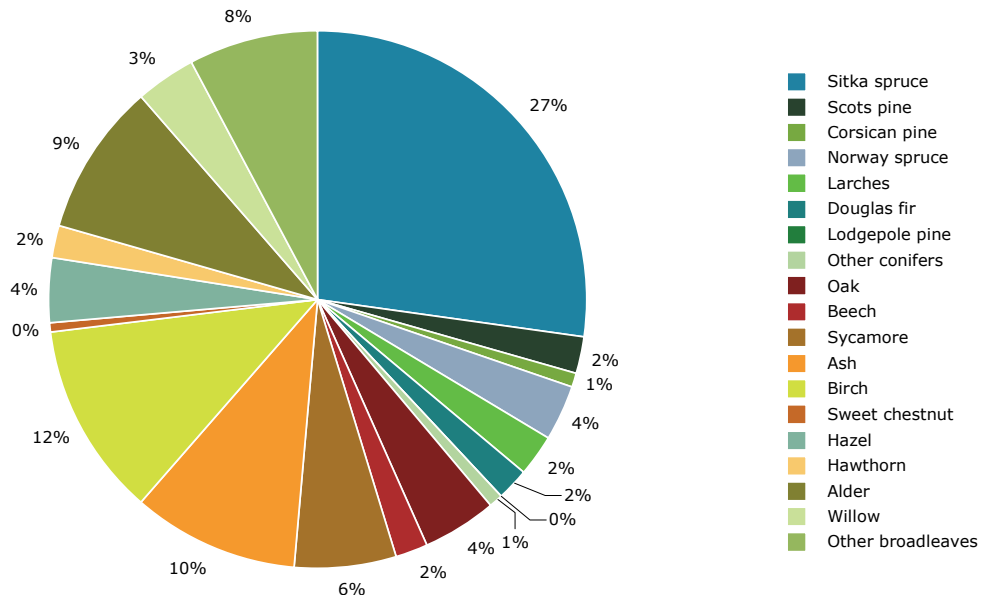
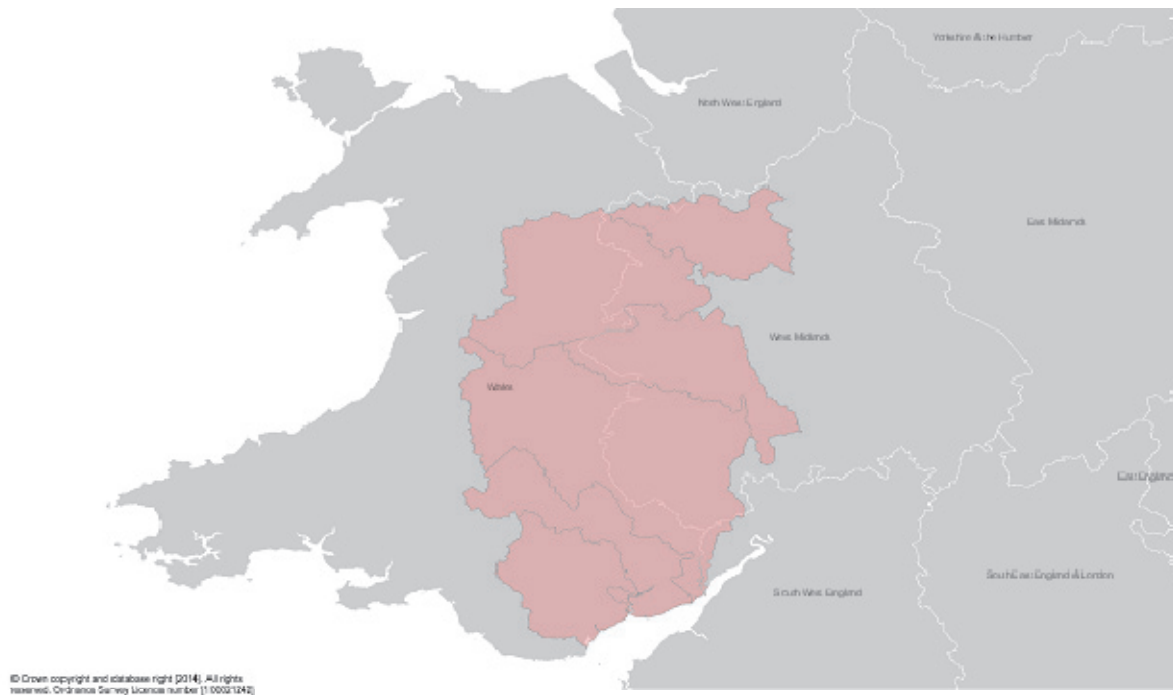


Table 1 Stocked area by principal tree species at 31 March 2012 – Dee River Basin District

Principal tree species groups	Dee RBD	
	area (000 ha)	SE%
All woodland		
All conifers	5.2	8
Sitka spruce	3.6	19
Scots pine	0.3	109
Corsican pine	0.1	78
Norway spruce	0.5	65
Larches	0.3	53
Douglas fir	0.3	51
Lodgepole pine	0.0	93
Other conifers	0.1	85
All broadleaves	8.1	8
Oak	0.6	41
Beech	0.3	68
Sycamore	0.8	35
Ash	1.3	29
Birch	1.5	36
Sweet chestnut	0.0	65
Hazel	0.5	37
Hawthorn	0.2	31
Alder	1.2	40
Willow	0.5	64
Other broadleaves	1.0	29
All species	13.3	4

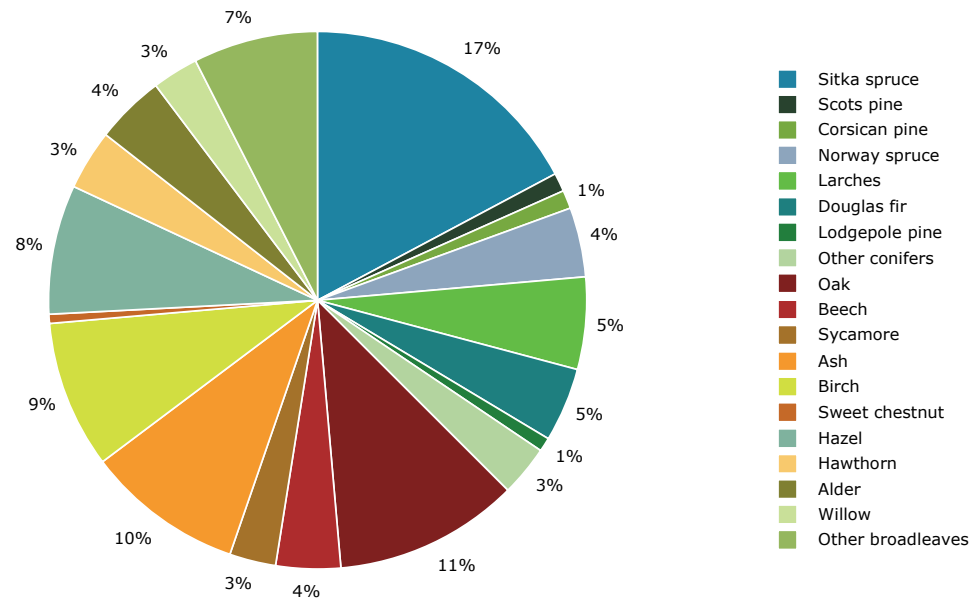
Severn River Basin District

Map 2 Severn River Basin District



NFI Provisional Report

Figure 2 Principal tree species composition by stocked area at 31 March 2012 – Severn River Basin District



NFI Provisional Report

Table 2 Stocked area by principal tree species at 31 March 2012 – Severn River Basin District

Principal tree species groups	Severn RBD		Shropshire Middle Severn & Severn Uplands		Teme		Wye		Usk		South East Valleys	
	area (000 ha)	SE%	area (000 ha)	SE%	area (000 ha)	SE%	area (000 ha)	SE%	area (000 ha)	SE%	area (000 ha)	SE%
All woodland												
All conifers	53.2	3	16.0	7	4.9	10	19.7	6	5.2	8	9.0	7
Sitka spruce	24.2	8	8.4	13	0.6	54	9.4	14	2.5	20	4.3	16
Scots pine	1.6	29	1.1	45	0.3	53	0.1	45	0.2	86	0.1	54
Corsican pine	1.3	35	0.3	56	0.5	65	0.4	60	0.1	107	0.0	107
Norway spruce	5.9	15	1.1	45	1.2	29	2.2	29	0.8	35	0.7	37
Larches	7.7	13	1.8	32	1.0	26	1.7	29	0.7	32	2.0	24
Douglas fir	6.3	15	2.3	26	0.9	26	3.4	21	0.4	43	0.2	61
Lodgepole pine	1.1	35	0.1	71	0.0	107	0.1	83	0.0	-	0.9	39
Other conifers	4.2	19	0.6	35	0.5	41	2.3	34	0.4	39	0.5	38
All broadleaves	87.6	2	18.5	7	13.4	6	30.9	4	10.2	6	14.0	5
Oak	15.5	9	4.0	22	2.7	23	6.1	16	1.5	21	1.7	22
Beech	5.4	16	0.9	45	1.0	47	1.5	25	0.6	35	1.1	26
Sycamore	4.1	18	1.7	30	0.6	34	0.3	36	0.7	57	0.5	22
Ash	13.4	8	2.7	25	2.4	15	5.8	15	1.7	20	1.0	20
Birch	12.2	10	2.7	19	1.2	26	3.0	30	1.2	24	3.3	14
Sweet chestnut	0.7	36	0.1	87	0.4	46	0.2	61	0.0	-	0.0	84
Hazel	11.1	9	0.9	28	2.0	19	5.9	15	1.9	23	0.8	22
Hawthorn	4.8	18	2.0	34	0.7	37	2.2	29	0.4	40	0.5	39
Alder	6.2	14	0.6	67	1.0	36	1.8	26	0.5	54	1.7	17
Willow	3.8	14	0.5	45	0.4	27	1.1	24	0.2	37	1.3	22
Other broadleaves	10.4	9	2.3	18	1.0	21	3.0	16	1.6	20	2.1	17
All species	141.3	1	34.5	4	18.3	4	50.7	1	15.5	3	23.3	2

NFI Provisional Report

Figure 3 Principal tree species composition by stocked area at 31 March 2012 – Shropshire Middle Severn and Severn Uplands catchments

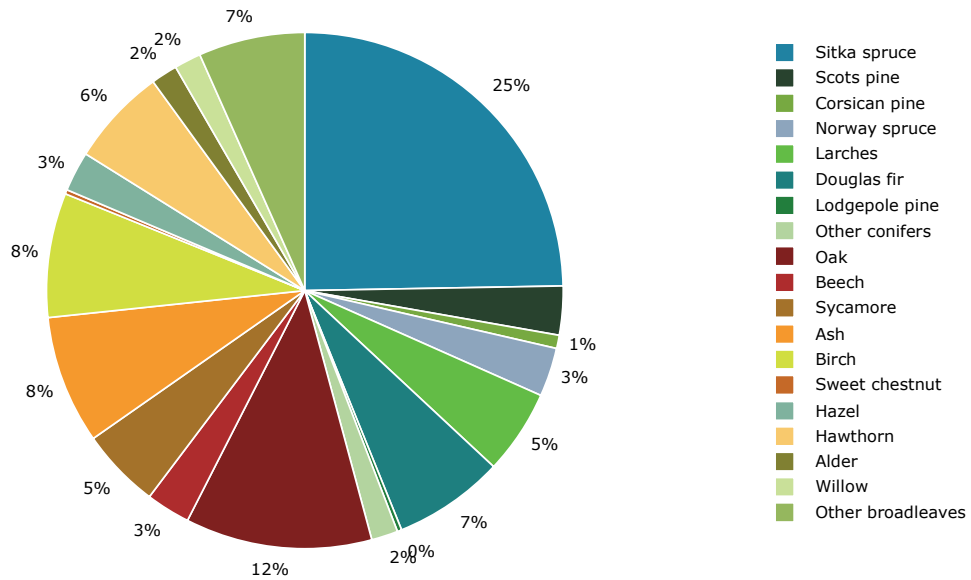
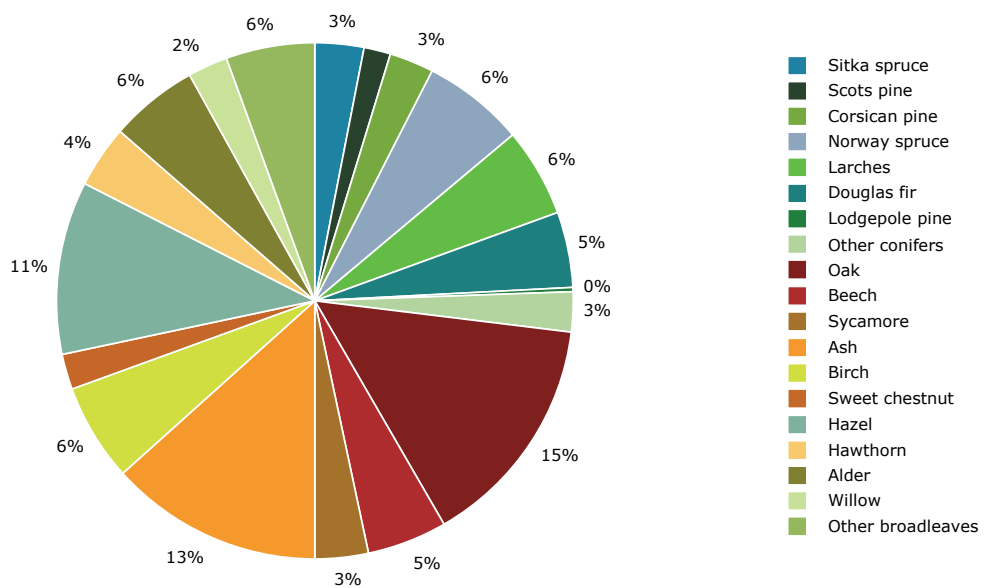


Figure 4 Principal tree species composition by stocked area at 31 March 2012 – Teme catchment



NFI Provisional Report

Figure 5 Principal tree species composition by stocked area at 31 March 2012 – Wye catchment

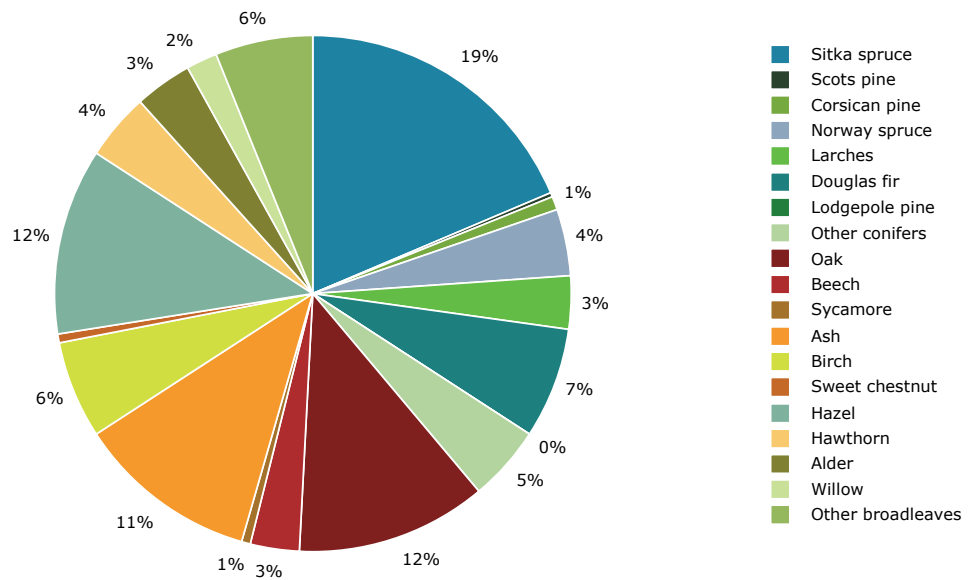
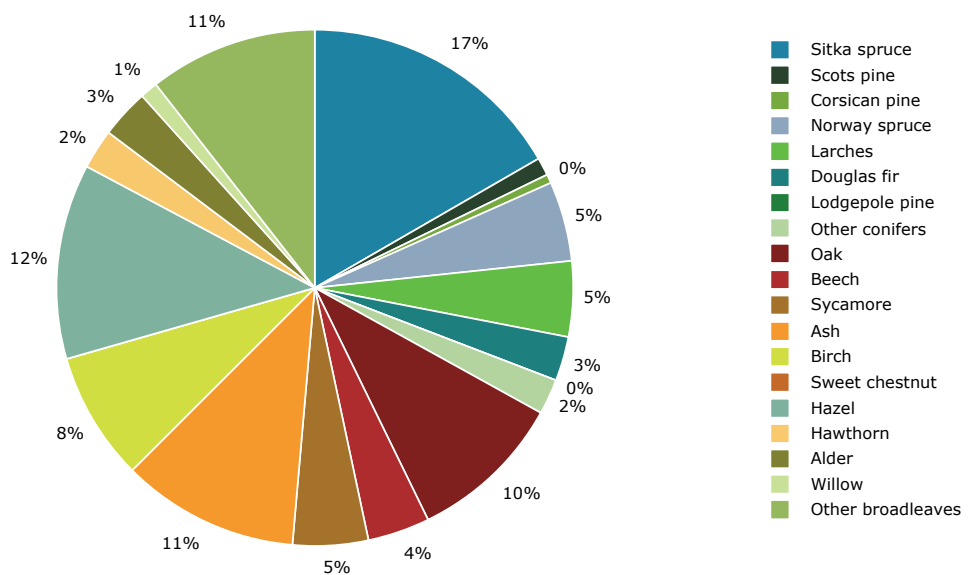
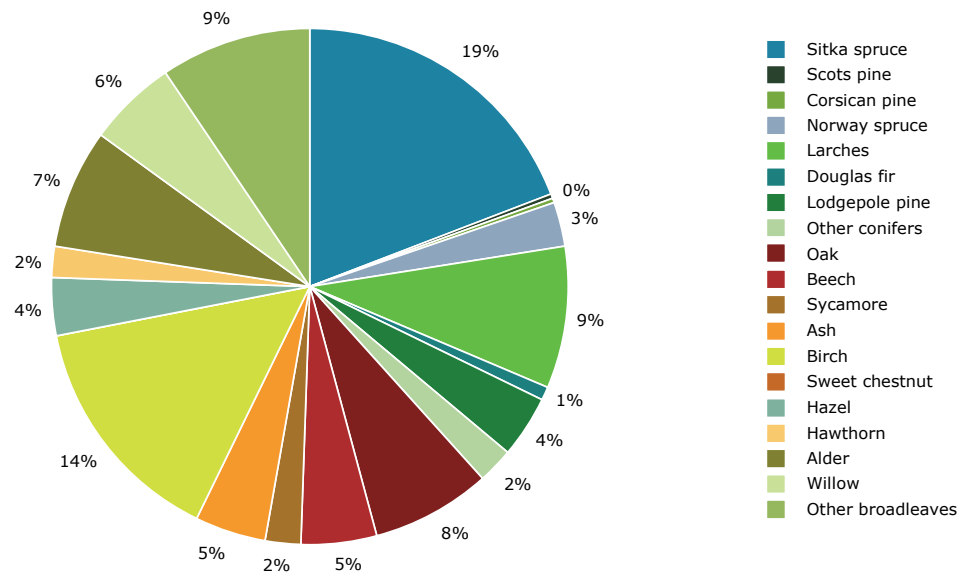


Figure 6 Principal tree species composition by stocked area at 31 March 2012 – Usk catchment



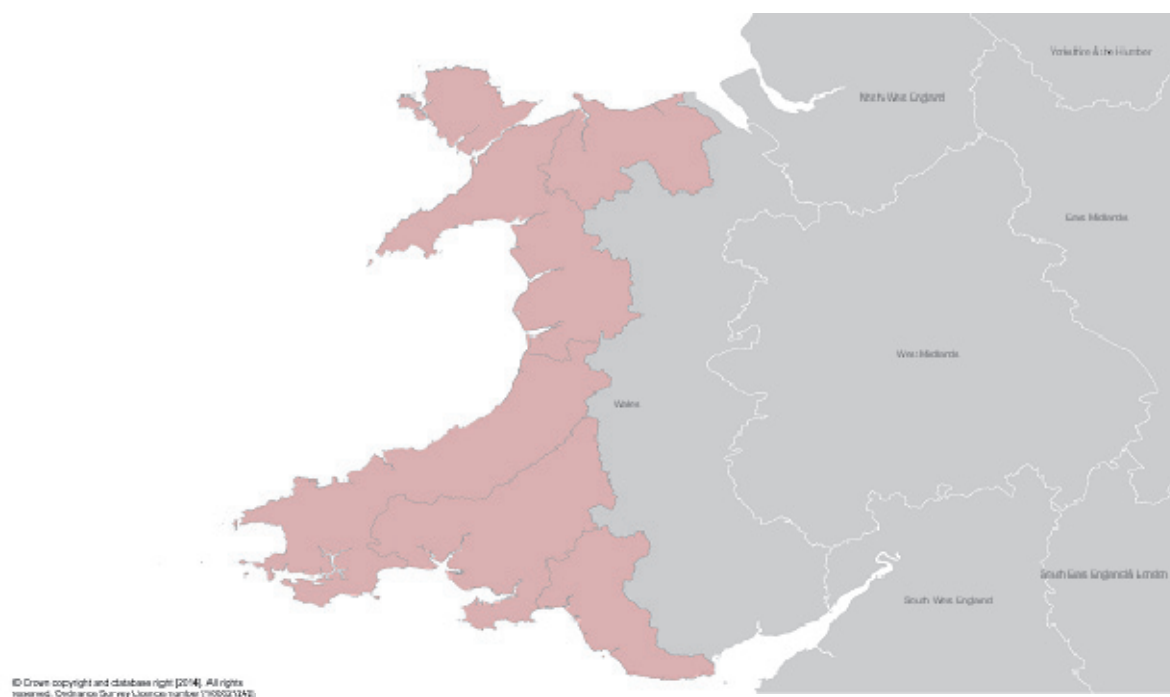
NFI Provisional Report

Figure 7 Principal tree species composition by stocked area at 31 March 2012 – South East Valleys catchment



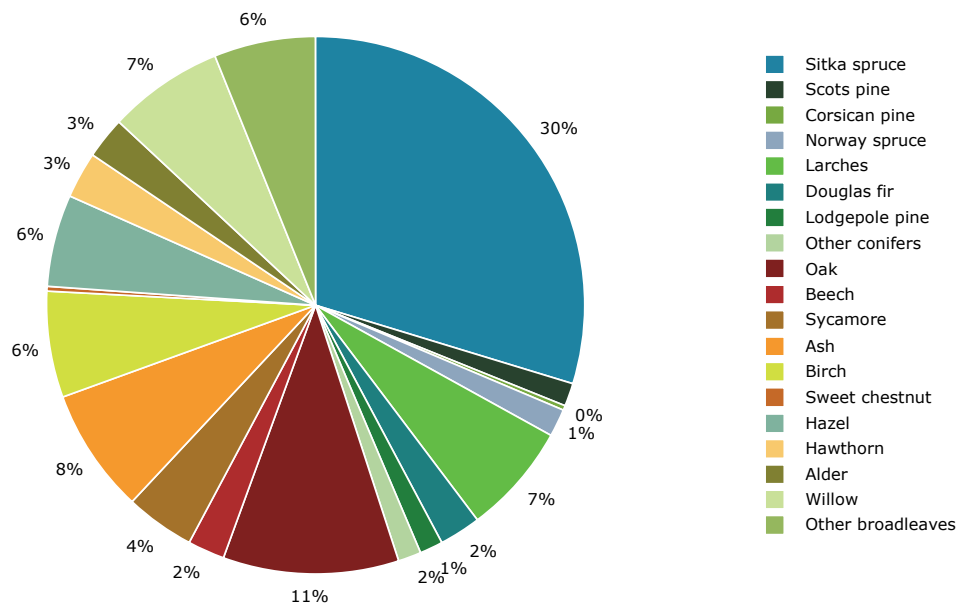
Western Wales River Basin District

Map 3 Western Wales River Basin District



NFI Provisional Report

Figure 8 Principal tree species composition by stocked area at 31 March 2012 – Western Wales River Basin District



NFI Provisional Report

Table 3 Stocked area by principal tree species at 31 March 2012 – Western Wales River Basin District

Principal tree species groups	Western Wales RBD		Conwy and Clwyd & North West Wales		South West Wales		Loughor to Taf		Ogmore to Tawe	
	area (000 ha)	SE%	area (000 ha)	SE%	area (000 ha)	SE%	area (000 ha)	SE%	area (000 ha)	SE%
All woodland										
All conifers	73.2	2	29.7	3	14.7	7	17.1	5	13.4	6
Sitka spruce	48.0	4	19.0	7	10.6	11	11.5	9	8.3	10
Scots pine	2.4	23	1.5	39	0.0	99	0.4	48	0.9	30
Corsican pine	0.5	43	0.0	76	0.0	-	0.0	111	0.4	48
Norway spruce	2.3	27	0.6	41	0.1	54	0.7	46	0.7	52
Larches	11.1	11	3.6	18	2.0	26	2.7	22	2.1	24
Douglas fir	3.7	21	1.8	31	1.4	45	1.1	31	0.0	-
Lodgepole pine	2.3	22	1.4	27	0.3	50	0.1	55	0.5	52
Other conifers	2.6	20	1.7	26	0.1	77	0.4	42	0.4	53
All broadleaves	88.4	2	29.6	5	21.0	5	24.8	4	11.1	6
Oak	17.0	8	7.4	15	3.3	16	5.7	14	1.9	22
Beech	3.3	21	2.0	31	0.7	32	0.9	35	0.3	86
Sycamore	6.8	13	3.0	30	1.9	20	1.1	24	0.9	36
Ash	12.4	9	2.1	24	4.6	17	3.4	17	1.0	38
Birch	10.1	9	5.4	10	1.0	26	2.0	19	1.8	25
Sweet chestnut	0.3	61	0.4	73	0.0	100	0.0	89	0.0	-
Hazel	9.3	10	1.6	34	2.8	16	3.5	15	0.7	29
Hawthorn	4.5	15	0.3	49	1.1	18	1.7	23	0.8	44
Alder	4.1	15	1.2	34	0.5	30	1.6	26	0.9	32
Willow	10.8	11	1.7	21	3.5	19	2.9	17	1.1	22
Other broadleaves	10.0	9	4.6	13	1.7	20	2.1	18	1.7	26
All species	162.0	1	59.4	2	35.8	2	42.0	2	24.6	3

NFI Provisional Report

Figure 9 Principal tree species composition by stocked area at 31 March 2012 – Conwy and Clwyd and North West Wales catchments

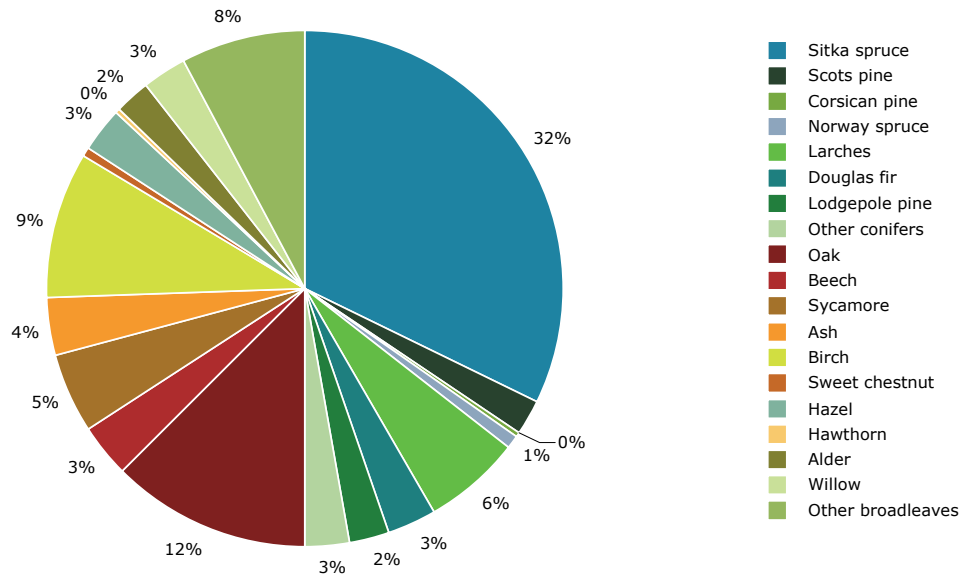
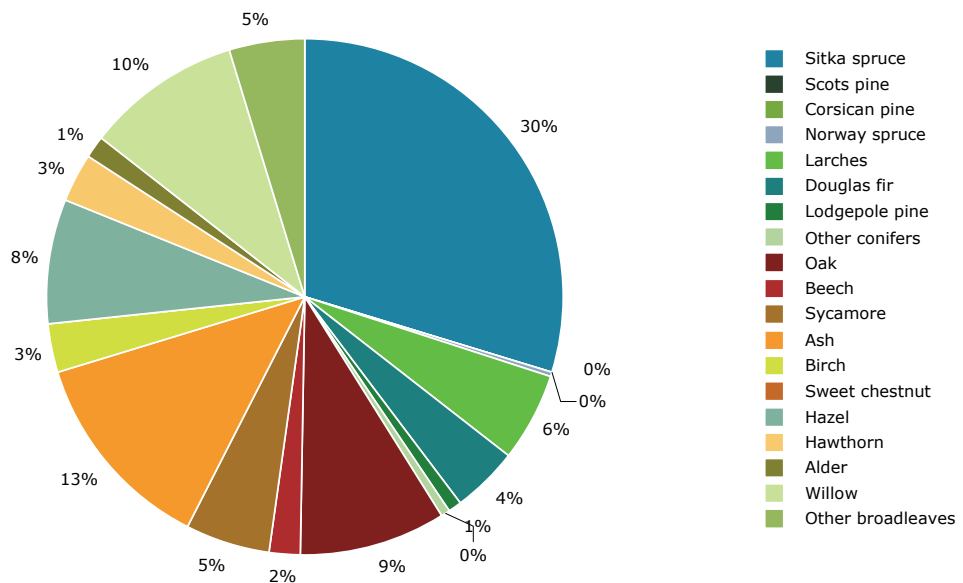


Figure 10 Principal tree species composition by stocked area at 31 March 2012 – South West Wales catchment



NFI Provisional Report

Figure 11 Principal tree species composition by stocked area at 31 March 2012 – Loughor to Taf catchment

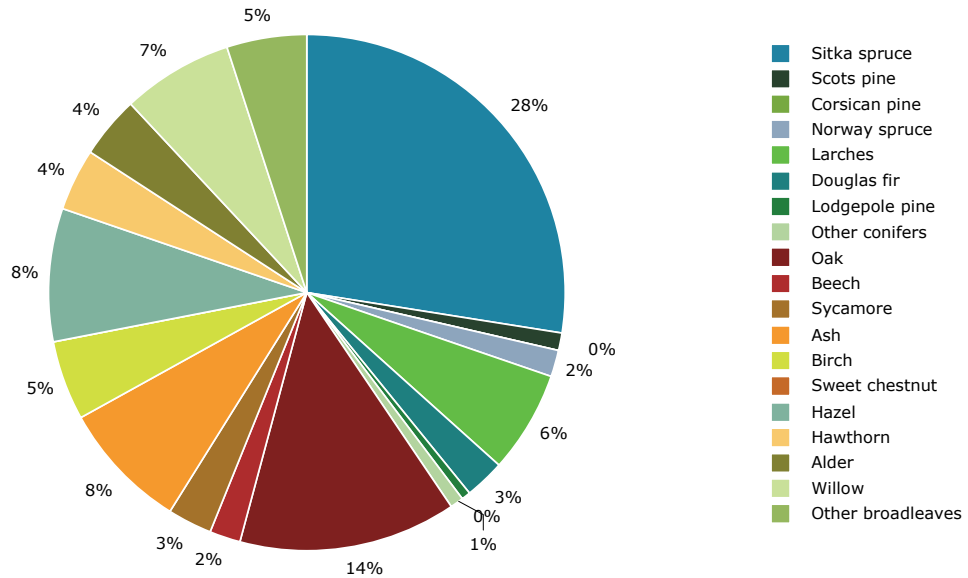
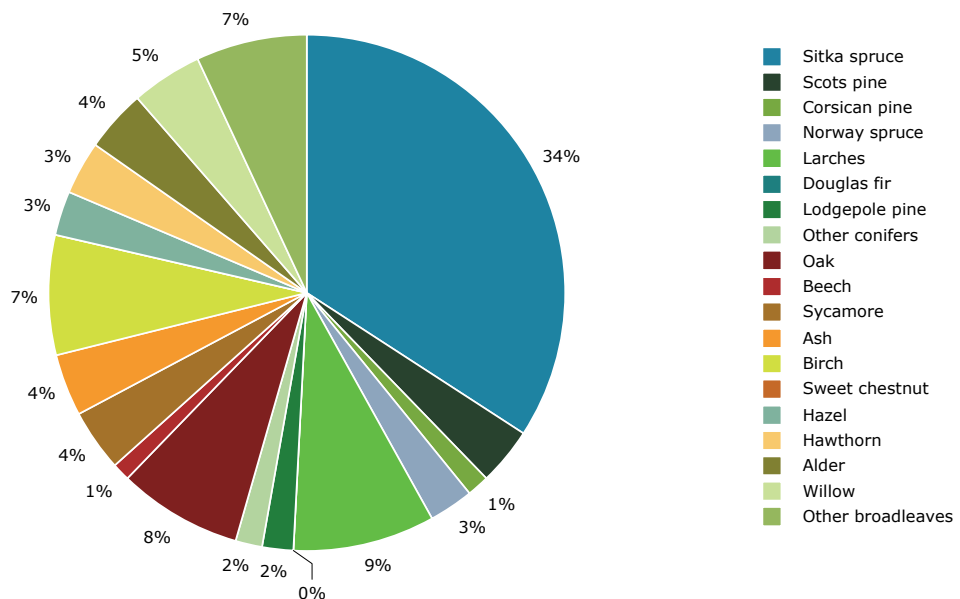


Figure 12 Principal tree species composition by stocked area at 31 March 2012 – Ogmore to Tawe catchment



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
- Biomass in live woodland trees in Britain
- Carbon in live woodland trees in Britain

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

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

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

Glossary

A glossary of terms is presented in the full suite of forecast reports which can be found at www.forestry.gov.uk/forecast.

Official Statistics

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

National Forest Inventory Statistician: Alan Brewer