



Forestry Commission

SAWMILL SURVEY 2000

**Report on the survey of sawmill consumption and production
in Great Britain in 2000.**

**Prepared by Economics & Statistics Unit of the Forestry Commission in association
with the Forestry Commission Advisory Panel (FCAP) Sub-Committee on
Supply and Demand.**

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GB SAWMILL SURVEY 2000

INTRODUCTION

This report gives results from the Sawmill Survey for 2000.

This survey is designed to find out about mills that carry out primary processing of British logs. In the Standard Industrial Classification (SIC), this is part of heading 201: sawmilling and planing of wood, impregnation of wood. The survey excludes mills that only saw imported timber, and those that only saw roughsawn timber or small roundwood, which are also in SIC 2001. Statistics on the sawing of small roundwood for producing round fencing material are collected by a separate survey, reported in British Timber Statistics, which also contains statistics on other processing industries using small roundwood. The Forestry Commission does not collect statistics on secondary processing or on the processing of imported wood.

The survey of sawmills in Great Britain is carried out by the Economics & Statistics Unit of the Forestry Commission, in association with the Forestry Commission Advisory Panel Sub-Committee on Supply and Demand (SSD). We gratefully acknowledge the assistance of all sawmills that completed the survey questionnaire, of the UK Forest Products Association and the members of SSD who provided advice.

The report consists of two sections; the first reports results from the annual survey, the second results from the detailed survey of the largest mills which is now carried out every second year.

Figures in the tables are individually rounded, so the constituent items may not add to the totals given.

GB SAWMILLS – ANNUAL SURVEY 2000

This section gives results for timber consumption and sawnwood production from the Sawmill Survey for 2000.

Survey Responses

In the 2000 Survey 374 questionnaires were sent out. Following a reminder and a telephone call to the largest non-respondents, 193 responses were received, a response rate of 52%.

The latest estimates for consumption and production in the last seven years, including estimates for non-respondents, are shown in Table 1 expressed in thousand cubic metres underbark for consumption, and thousand cubic metres sawnwood for production. While the 2000 sawmill survey was being carried out, Forest Enterprise offices around Britain were asked to provide information on mills in their area, who had not responded to the annual sawmill survey since 1998 or earlier. Estimates for 1994-1999 have been revised to include information supplied during this exercise. Revisions were also made to historical data for sawmills that reported data for the first time in 2000, and also to take account of mill closures before 2000 which were only notified to us during the 2000 survey.

Table 1: Consumption and production 1994 - 2000

			1994	1995	1996	1997	1998	1999	2000
Softwood:	consumption	000 m ³ ub	3,366	3,329	3,425	3,490	3,570	3,859	3,936
	production	000 m ³	1,923	1,899	1,917	1,980	1,995	2,147	2,159
Hardwood:	consumption	000 m ³ ub	316	330	258	259	227	205	183
	production	000 m ³	180	190	151	143	126	119	107

Imported Round Timber

Of the mills covered by the survey (those that saw British timber) it is estimated that 16 mills used imported round timber in 2000, totalling 9,200 m³ ub softwood and 7,900 m³ ub hardwood. This is based on responses for 2000 and estimates for non-respondents that had reported using imported round timber in earlier years.

Number of sawmills

Based on all the 2000 survey responses, together with data from previous years for those who did not respond for 2000, it is estimated that there were 297 sawmills processing British timber in 2000, of which 178 produced at least 1,000 m³ sawnwood. Of those 178 mills, 132 processed softwood only, 11 hardwood only, and 35 both hardwood and softwood. Of the 119 smaller mills, 48 processed softwood only, 17 hardwood only, and 54 both hardwood and softwood.

Table 2: Number of sawmills 1994 - 2000

Size Category (production)	1994	1995	1996	1997	1998	1999	2000
Great Britain	483	440	393	367	339	314	297
<1,000m ³	252	215	187	170	144	136	119
1,000 - 4,999m ³	144	139	122	116	116	98	100
5,000 - 24,999m ³	66	66	62	58	57	56	53
25,000 - 49,999m ³	14	15	15	15	11	10	12
50,000m ³ +	7	5	7	8	11	14	13
Scotland	121	110	98	97	93	84	85
<1,000m ³	57	47	42	43	36	30	29
1,000 - 4,999m ³	29	29	24	22	25	24	27
5,000 - 24,999m ³	26	25	22	22	22	20	18
25,000 - 49,999m ³	5	7	7	6	4	2	4
50,000m ³ +	4	2	3	4	6	8	7
England	324	293	260	238	215	200	185
<1,000m ³	176	151	128	113	95	93	81
1,000 - 4,999m ³	107	100	90	86	82	66	67
5,000 - 24,999m ³	34	36	34	31	30	32	28
25,000 - 49,999m ³	5	4	6	6	5	5	5
50,000m ³ +	2	2	2	2	3	4	4
Wales	38	37	35	32	31	30	27
<1,000m ³	19	17	17	14	13	13	9
1,000 - 4,999m ³	8	10	8	8	9	8	6
5,000 - 24,999m ³	6	5	6	5	5	4	7
25,000 - 49,999m ³	4	4	2	3	2	3	3
50,000m ³ +	1	1	2	2	2	2	2

British Softwood

Consumption of British softwood (in thousand cubic metres underbark) and production (in thousand cubic metres sawnwood) are shown in the following tables, including estimates for non respondents. Total softwood consumption was 3.94 million m³ underbark and sawn softwood production was 2.16 million m³ sawnwood. While consumption rose by around 2% from 1999, production rose by only around 0.5%.

Apparent recovery (calculated as the ratio of sawnwood production to underbark log consumption) was 55%.

Table 3: Softwood consumption - 2000

	000 m ³ underbark					
	Sawmill size category (000 m ³ total production: hard + soft)					Total
	<1	1 - <5	5 - <25	25 - <50	50+	
GB Total	53	353	800	762	1,969	3,936
Scotland	16	130	379	251	951	1,728
England	36	192	325	318	639	1,510
Wales	1	31	96	192	378	698

Table 4: Softwood production - 2000

	000 m ³ sawnwood					
	Sawmill size category (000 m ³ total production: hard + soft)					Total
	<1	1 - <5	5 - <25	25 - <50	50+	
GB Total	31	211	447	405	1,065	2,159
Scotland	10	76	206	141	520	953
England	21	116	185	161	354	836
Wales	0	19	56	103	191	369

Summary

Table 5 (on the next page) gives a summary of production and consumption, for softwood for the years 1994 to 2000.

Table 5 - Summary softwood statistics: 1994 - 2000

	Year	Log consumption (000 m³ ub)	Sawnwood production (000 m³ sawn)	<i>Apparent recovery</i> (%)
Great Britain	1994	3,366	1,923	57
	1995	3,329	1,899	57
	1996	3,425	1,917	56
	1997	3,490	1,980	57
	1998	3,570	1,995	56
	1999	3,859	2,147	56
	2000	3,936	2,159	55
Scotland	1994	1,440	814	57
	1995	1,394	784	56
	1996	1,444	799	55
	1997	1,478	823	56
	1998	1,504	834	55
	1999	1,614	894	55
	2000	1,728	953	55
England	1994	1,426	828	58
	1995	1,381	810	59
	1996	1,399	803	57
	1997	1,407	823	58
	1998	1,458	835	57
	1999	1,564	892	57
	2000	1,510	836	55
Wales	1994	499	281	56
	1995	554	304	55
	1996	581	316	54
	1997	605	333	55
	1998	608	326	54
	1999	681	361	53
	2000	698	369	53

British Hardwood

Consumption of British hardwood (in thousand cubic metres underbark) and production (in thousand cubic metres sawnwood) are shown in the following tables, again including estimates for non respondents. Results for the larger categories are combined, to avoid disclosure of individual returns. Total hardwood consumption was 183 thousand m³ underbark and total sawn hardwood production was 107 thousand m³ sawnwood, both down around 10% on 1999. Apparent recovery is 59%, slightly up on 1999.

Table 6: Hardwood consumption - 2000

	Sawmill size category (000 m ³ total production: hard + soft)				000 m ³ underbark
	<1	1 - <5	5 - <10	10+	Total
GB Total	21	57	91	14	183
Scotland	1	2	5	0	8
England	18	55	75	14	161
Wales	2	0	11	0	13

Table 7: Hardwood production - 2000

	Sawmill size category (000 m ³ total production: hard + soft)				000 m ³ sawnwood
	<1	1 - <5	5 - <10	10+	Total
GB Total	12	35	53	8	107
Scotland	1	1	3	0	5
England	10	33	42	8	94
Wales	1	0	8	0	9

Summary

Table 8 (on the next page) gives a summary of production and consumption, for hardwood, for the years 1994 to 2000.

Table 8 - Summary hardwood statistics: 1994 - 2000

	Year	Log consumption (000 m³ ub)	Sawnwood production (000 m³ sawn)	<i>Apparent recovery (%)</i>
Great Britain	1994	316	180	57
	1995	330	190	58
	1996	258	151	59
	1997	259	143	55
	1998	227	126	55
	1999	205	119	58
	2000	183	107	59
Scotland	1994	12	6	51
	1995	16	9	56
	1996	12	6	51
	1997	13	6	50
	1998	10	5	53
	1999	10	5	48
	2000	8	5	56
England	1994	294	167	57
	1995	304	175	57
	1996	238	140	59
	1997	239	131	55
	1998	209	115	55
	1999	187	109	58
	2000	161	94	58
Wales	1994	10	7	63
	1995	11	7	64
	1996	8	5	62
	1997	8	5	63
	1998	7	5	66
	1999	7	5	65
	2000	13	9	67

GB SAWMILLS - Detailed Survey (Mills with over 5000m³ production)

Additional information was collected in 2000 from mills that produced at least 5000m³ sawnwood. Similar information had been collected in 1998, 1996, 1993 and 1990, but the scope before 1998 had also included mills producing 1,000-5,000m³ sawnwood. This section of the report presents the results for 2000 (with the corresponding figures for 1998 in brackets).

Of the estimated 78 (79) mills producing over 5000 m³ sawnwood, 40 (52) completed a detailed questionnaire. The response rate was worse than in 1998 for all size categories, dropping below 30% for the smallest category (5,000-10,000 m³). Because of the low response rate for 2000, data from 1998 were used to estimate figures for those who had responded for 1998 but not for 2000. All results are shown rated up to the total number of mills and to their consumption and production figures reported in the annual surveys. Further details of the response rates and the calculation of rating factors are given in Appendix 1.

Days and hours worked

Most mills, 78% (85%) worked for between 220 and 260 days. This is similar to 1998, 1996 and 1993.

Most mills worked for 8 to 10 hours a day; 52% (43%) worked for at least 8 hours but less than 9, and 26% (35%) for at least 9 hours but less than 10. The large mills with production of over 50,000m³ tended to work longer hours. Responses said that the site could sustain double-shift or continuous working for 44% (44%) of all mills, including most of those with production of over 50,000m³.

Converting long length logs

56% (58%) of mills indicated that they converted long length logs into shorter logs before primary breakdown.

Softwood

GB Summary (see Table 10)

Total **softwood capacity**, defined as the level that the site could sustain on single-shift working, was 3,093,000 (3,056,000) cubic metres underbark. About 50% (40%) of the softwood capacity was in mills producing more than 50,000 cubic metres sawnwood. Total **softwood consumption** was 3,531,000 (3,145,000) cubic metres underbark; consumption was running at 114% (103%) of capacity, because of double-shift working.

For mills that reported a breakdown of softwood consumption by **size category**, 74% (76%) were large logs (top diameter 16 cm and over). 55% (53%) of mills reported a maximum butt diameter between 30-70 cm, with only 11% (17%) reporting a smaller maximum. The **species breakdown** showed little change since 1998; the species reported were spruce 67% (68%), pine 19% (18%) and other conifers 15% (14%).

Softwood production broken down by **market classification** showed that 34% (31%) went to construction (including agricultural buildings), 34% (32%) to fencing, 29% (33%) to packaging and pallets and 3% (4%) to all other markets. Compared with 1998, this is an increase in construction, and a decrease in packaging/ pallets.

Softwood **co-products** added up to 1,842,000 (1,748,000) green tonnes. 83% (83%) of softwood co-products were sold to wood processing industries, 11% (11%) sold as bark, 5% (4%) were sold to other industries, and 1% (2%) burnt for heat.

England, Scotland & Wales

The main flows of softwood logs between countries were from Scotland and Wales into England. Around 85% (82%) of reported Scottish logs were sawn in Scottish mills. Around 68% (61%) of reported Welsh logs were sawn in Welsh mills; the rest were sawn in English mills just over the border.

Table 9: Flow of softwood logs between countries (000m³ underbark)

Source	GB	Sawmills in		
		Scotland	England	Wales
England	552	58	462	33
Scotland	1,667	1,424	235	9
Wales	366	0	116	250
Imports	9	4	3	2
Total response	2,596	1,488	815	294
Non-response to question or survey	935	94	467	373
Total	3,531	1,582	1,282	667

Table 10 gives information on consumption and production by size category. Table 11 presents the same information as Table 10, but broken down by country (England & Wales and Scotland) instead of size category. Separate figures are not given for Wales, because of low response.

Table 10: Softwood - consumption and production 2000
Mills with at least 5000m³ production : GB size category breakdown

	Mill size category (000 m ³ total production) ¹				Total
	5 - <10	10 - <25	25 - <50	50+	
Capacity (000 m ³ underbark)	346	434	812	1,501	3,093
% of consumption against capacity	95	108	94	131	114
Consumption (000 m ³ underbark)	329	470	762	1,969	3,531
Top diameter 16cm+	203	329	493	1,570	2,594
Top diameter <16cm	100	142	269	400	910
Not reported	26	0	0	0	26
Spruce	135	172	475	1,518	2,300
Pine	99	150	190	203	641
Other conifer	58	106	97	249	511
Not reported	37	42	0	0	79
Sawnwood production (000 m ³)	183	264	405	1,065	1,918
Construction	19	41	81	510	651
Fencing	79	93	244	231	647
Packaging & pallets	79	124	68	289	560
Mining timber	1	0	3	3	7
Furniture	0	0	0	0	0
Other	5	5	10	33	52
Co-products (000 green tonnes)	138	227	452	1,025	1,842
Sales to wood processing industries	117	181	370	857	1,525
Sawdust	23	34	94	189	340
Slabwood	1	0	0	1	2
Peeled Chips	40	99	275	618	1,032
Unpeeled chips	49	45	0	44	138
Other	4	4	0	5	13
Other sales	10	27	32	15	84
Sawdust	8	17	3	7	34
Slabwood	0	0	0	0	0
Peeled Chips	0	1	29	0	30
Unpeeled chips	2	9	0	5	16
Firewood	1	1	0	0	2
Other	0	0	0	2	2
Sold as bark	10	17	47	132	206
Burnt for heat	0	2	2	21	24
Disposed rubbish/burning	1	1	0	0	2

¹ Size category is based on total production of mill (softwood and hardwood), not just softwood production

Table 11: Softwood - consumption and production 2000
Mills with at least 5000m³ production: country breakdown

	Scotland	England and Wales	Great Britain
Capacity (000 m ³ underbark)	1,431	1,662	3,093
% of consumption against capacity	111	117	114
Consumption (000 m ³ underbark)	1,582	1,949	3,531
Top diameter 16cm+	1,257	1,337	2,594
Top diameter <16cm	325	585	910
Not reported	0	26	26
Spruce	1,122	1,178	2,300
Pine	242	399	641
Other conifer	176	335	511
Not reported	42	37	79
Sawnwood production (000 m ³)	868	1,050	1,918
Construction	416	236	651
Fencing	170	477	647
Packaging & pallets	252	308	560
Mining timber	3	4	7
Furniture	0	0	0
Other	27	25	52
Co-products (000 green tonnes)	885	957	1,842
Sales to wood processing industries	752	773	1,525
Sawdust	150	190	340
Slabwood	0	2	2
Peeled Chips	552	481	1,032
Unpeeled chips	41	96	138
Other	9	4	13
Other sales	27	57	84
Sawdust	19	16	34
Slabwood	0	0	0
Peeled Chips	0	30	30
Unpeeled chips	6	10	16
Firewood	1	1	2
Other	2	0	2
Sold as bark	84	122	206
Burnt for heat	20	4	24
Disposed rubbish/burning	1	1	2

Hardwood

GB Summary (See Table 12)

Total **hardwood capacity** (defined as for softwood) was 138,000 (97,000) cubic metres underbark. **Hardwood consumption** was 105,000 (97,000) cubic metres underbark, 76% (100%) of single shift capacity. The 2000 and 1998 surveys give a more limited coverage of hardwood than previous years, because of the exclusion of mills producing less than 5,000m³ sawnwood, and the results are more subject to distortion by low response rates.

For mills that reported a breakdown of hardwood consumption by size category, two-thirds (over half) of the hardwood consumed was top diameter 40cm and over. The maximum butt diameter of log most mills were able to cut was over 100cm. The **main species** reported were oak 38% (37%), beech 22% (26%), ash 15% (13%) and sycamore 7% (13%).

Hardwood production broken down by **market classification** showed that the main markets were sawn mining timber 35% (22%), furniture 32% (36%) and construction 21% (14%). **Hardwood co-products** added up to 37,000 (33,000) green tonnes, of which around 31,000 (26,000) green tonnes were sold to wood processing industries.

England, Scotland & Wales

No Welsh mills that sawed hardwood were in the scope for the survey (mills sawing over 5,000m³), and little hardwood production was in the scope for Scotland, so only GB totals are given.

Table 12: Hardwood - consumption and production 2000
All mills with total production¹ of at least 5,000m³

	Great Britain
Capacity (000 m ³ underbark)	138
% of consumption against capacity	76
Consumption (000 m ³ underbark)	105
Top diameter 40cm+	71
Top diameter <40cm	34
Oak	40
Ash	16
Beech	23
Sycamore	8
Elm	2
Other white hard	3
Other hard	7
Not reported	6
Sawnwood production (000 m ³)	61
Construction	13
Fencing	3
Packaging & pallets	2
Mining timber	21
Furniture	19
Other	3
Co-products (000 green tonnes)	37
Sales to wood processing industries	31
Sawdust	3
Slabwood	1
Peeled Chips	5
Unpeeled chips	23
Other	0
Other sales	5
Sawdust	1
Slabwood	0
Peeled Chips	0
Unpeeled chips	0
Firewood	4
Other	0
Sold as bark	0
Burnt for heat	0
Disposed rubbish/burning	0

¹ Size category is based on total production of mill (softwood and hardwood), not just hardwood production

Additional Facilities of Mills

Of the (rated up) total of 78 mills, the number with each of the additional facilities is shown below (treating non-response to this question as “no”). Capacity and throughput for machine strength grading and kiln drying used 1998 responses where available for non-respondents in 2000, and were estimated for other mills by rating up respondents’ figures by the same factor used to rate up softwood production for each size category (as described in Appendix 1).

Capacity and throughput of machine strength grading and kiln drying have increased since 1998. Machine strength grading capacity was 591,00m³ sawnwood (523,000) and throughput 391,000m³ sawnwood (321,000). Kiln drying capacity was 586,000m³ sawnwood (479,000) and throughput 422,000m³ sawnwood (344,000). Other facilities were at similar levels to 1998.

Table 13: Additional facilities of mills (2000 - mills with over 5,000m³ production): country breakdown

	Number of mills		
	GB	Scotland	England & Wales
Total number of mills	78	29	49
Debarker	57	24	33
Log sorter	31	16	15
Drop sorter	17	12	5
Automatic sticker/stacker	21	14	7
Additional resawing/cross-cutting	76	27	49
Machining (e.g. planing, moulding)	36	12	24
Treatment plant	46	19	27

	GB	Scotland	England & Wales
Machine strength grading			
Number of mills	15	10	5
Capacity (000m ³)	591	386	205
Throughput (000m ³)	391	244	147
Kiln Drying			
Number of mills	23	8	15
Capacity (000m ³)	586	398	188
Throughput (000m ³)	422	259	163

Employment

The numbers of direct employees and of contractors and subcontractors are shown below, rated up according to the number of mills responding in each size category. Employment is expressed in full time equivalents; e.g. someone who works for the sawmill half the time is recorded as 0.5.

The total employment figures are similar to those from 1998, but with indications of some increase in the proportion of work done by contractors. Total employment was 4,238 (4,195) full time equivalents, of which 3,580 (3,682) were direct employees and 658 (513) contractors or sub-contractors. Contractors or sub-contractors accounted for over three-quarters of the employment on haulage, but only 2% of sawmill line workers and secondary process workers.

Table 14 : Sawmill Employment (2000 - mills with at least 5,000m³ production)

	Direct	Contract	Total
Sawmill line workers	1,438	35	1,473
Secondary process workers	1,093	17	1,110
Others (e.g. fitters)	293	33	326
Haulage to mill	83	262	345
Haulage from mill	79	295	374
Clerical staff	209	4	213
Marketing & sales staff	105	7	112
Supervising & managerial	279	6	285
Total	3,580	658	4,238

Table 15: Sawmill Employment (2000 – mills with at least 5,000m³ production): country breakdown

	Scotland		England & Wales	
	Direct	Contract	Direct	Contract
Sawmill line workers	551	5	887	30
Secondary process workers	312	2	781	15
Others (e.g. fitters)	127	9	166	24
Haulage to mill	32	92	51	170
Haulage from mill	23	111	56	184
Clerical staff	68	0	141	4
Marketing & sales staff	28	0	77	7
Supervising & managerial	108	0	171	6
Total	1,250	219	2330	439

SURVEY METHODOLOGY

2000 Annual Survey Responses

For the 2000 Survey 374 questionnaires were sent out in February 2001. Following a reminder and a telephone call to the largest non-respondents, 193 responses were received, a response rate of 52%. Of the 374 mills for which questionnaires were sent out, 77 mills either reported that they had closed or sawn no British timber, or the questionnaire was returned as “gone away”, or the follow-up survey of Forest Enterprise district offices reported that the mill had closed. This leaves 297 mills that are now thought to be in the scope for the survey (mills sawing British logs).

The following table shows the number of responses and non-respondents, for these 297 mills. Because of the much higher response rate from large mills, the respondents are estimated to have represented nearly 72% of total softwood consumption and 45% of total hardwood consumption.

	Size category (000 m ³ production)				Total
	<1	1 - <5	5-<25	25+	
Responses in scope	64	49	24	19	156
Non-respondents in scope	55	51	29	6	141
Total in scope	119	100	53	25	297
<i>Response rate for those in scope</i>	<i>54%</i>	<i>49%</i>	<i>45%</i>	<i>76%</i>	<i>53%</i>

Detailed Survey Responses and Rating Factors

Any detailed questionnaires completed for mills that produced less than 5,000 m³ sawnwood were excluded from the detailed survey analysis. Of the estimated 78 (79) mills producing over 5,000 m³ sawnwood, 40 (52) completed a detailed questionnaire, a response rate of 51% (66%). The response rate was worse than in 1998 for all size categories, dropping below 30% for the smallest category. The response rate based on number of mills for each size category is shown below.

	Size category (000 m ³ production)				Total
	5 - <10	10 - <25	25 - <50	50+	
Mills completing detailed questionnaire for 2000	10	11	8	11	40
Mills with data estimated from 1998 response	9	3	3	2	17
Other mills	16	4	1	0	21
Total	35	18	12	13	78
<i>Response rate (2000)</i>	<i>29%</i>	<i>61%</i>	<i>67%</i>	<i>85%</i>	<i>51%</i>
<i>Response for 2000 or 1998</i>	<i>54%</i>	<i>78%</i>	<i>92%</i>	<i>100%</i>	<i>73%</i>

In all paragraphs and tables produced only from the detailed (blue) questionnaire, data reported by the 40 respondents were rated up to give estimates for all 78 mills producing over 5000 m³ sawnwood. Because of the low response rate for 2000, we used data from 1998 for those who had responded for 1998 but not for 2000. Of the 38 non-respondents, 17 had reported data for 1998, and we estimated their data for 2000 to be the same as for 1998 except that consumption and production were adjusted to agree with any data reported in the 1999 Annual Survey. This provided data or estimates for 73% of the 78 mills, responsible for 92% of their total softwood consumption.

To compensate for all other non-respondents, we applied rating factors to the total data (responses and extrapolations from 1998) to give the same totals of mills, consumption and production as in the 2000 Annual Survey, using separate rating factors for each of the four size categories and England & Wales and Scotland.

Capacity and consumption were rated up by factors based on consumption, with separate factors for hardwood and softwood. Production and co-products were rated up by factors based on production, again with separate factors for hardwood and softwood. Responses to all other questions were rated up by factors based on the number of mills.

Ref

**FORESTRY COMMISSION ADVISORY PANEL
SUB-COMMITTEE ON SUPPLY AND DEMAND**

SAWMILL SURVEY - FOR YEAR ENDING DECEMBER 2000

1. THE SAWMILL : Please tick either A, B or C

 A**This sawmill no longer exists.**

Please ignore the enclosed questionnaires - just return this form, and if possible give the approximate date of closure in this box.

 B**The sawmill had total sawnwood production (British and imported timber) of up to 5000 cubic metres during the year ending December 2000.**

Please just fill in the short (yellow) questionnaire, and return it with this form.

 C**The sawmill had total sawnwood production (British and imported timber) of more than 5000 cubic metres during the year ending December 2000.**

Please answer the full (blue) questionnaire about the sawmill, and return it with this form.

If you are unable to provide exact figures then estimates are acceptable.

2. OTHER ACTIVITIES

If your company is a round fencing manufacturer, using British timber, and you have not received an FCAP fencing questionnaire, please tick this box.

If your company also harvests softwood timber from private estates, please tick this box and indicate the approximate quantity harvested in 2000, in green tonnes.

Quantity

green tonnes

Please return this form and the appropriate questionnaire in the Freepost envelope provided, addressed to Statistics Branch, Forestry Commission, Freepost, Edinburgh, EH12 0PD.

SAWMILLS - 2000 : SHORT QUESTIONNAIRE - FOR MILLS PRODUCING UP TO 5000 m³

Mills with production of more than 5000 m³ are requested to complete the full (blue) questionnaire instead of this short (yellow) questionnaire.

UNITS USED

For consumption of logs, you can give volumes in metric units (cubic metres underbark, m³ ub) or in imperial units (hoppus feet, Hft), or figures in tonnes. For production of sawnwood, you can give figures in cubic metres (m³) or cubic feet (cu ft). **Please indicate which units you are using by circling the appropriate units.**

CONSUMPTION OF LOGS

Q1. What was the total consumption of British and imported logs in the year ending December 2000? (This should be the volume sawn in the year rather than the volume purchased or delivered in the year).

	Softwood	<i>Circle units used</i>	Hardwood	<i>Circle units used</i>
British logs	<input type="text"/>	m³ ub or Hft	<input type="text"/>	m³ ub or Hft
Imported logs	<input type="text"/>	or tonnes	<input type="text"/>	or tonnes

PRODUCTION OF SAWNWOOD

Q2. What was the total volume of sawnwood produced by the mill in the year ending December 2000, from British and imported logs?

	Softwood	<i>Circle units used</i>	Hardwood	<i>Circle units used</i>
Sawnwood	<input type="text"/>	m³ or cu ft	<input type="text"/>	m³ or cu ft

STOCKS OF SAWNWOOD

Q3. What was the total volume of sawnwood held at the mill at the end of December 2000?

	Softwood	<i>Circle units used</i>	Hardwood	<i>Circle units used</i>
Sawnwood stocks	<input type="text"/>	m³ or cu ft	<input type="text"/>	m³ or cu ft

Thank you for completing this questionnaire. Please return it with the white form, in the Freepost envelope provided, addressed to Statistics Branch, Forestry Commission, Freepost, Edinburgh, EH12 0PD.

SAWMILLS - 2000: FULL QUESTIONNAIRE - FOR MILLS WITH PRODUCTION MORE THAN 5000 m³

If production is less than 5000 m³, please discard this questionnaire, and just complete the short (yellow) questionnaire.

UNITS USED

For quantities in the questionnaire, you can give figures in metric units (cubic metres) or imperial units (Hoppus feet and cubic feet). **Please indicate which units you will be using, by circling the appropriate code here;** if you do this then there is no need to circle the units in the rest of the questionnaire.

Metric (m³) **1**

Imperial (Hft and cu ft) **2**

1. WORKING HOURS IN 2000

a. Number of days the mill operated in 2000

days

b. Average number of hours per day the mill operated

hours/day

2. ESTIMATED CAPACITY

What is the annual capacity of the mill? Annual capacity is the level (input volume) that the site could sustain on single-shift working, given all the circumstances of the particular site.

m³ or Hft

Softwood

Hardwood

2a. Could the site sustain double-shift or continuous working? To answer "yes" to this question, the site's capacity would not be hindered by restrictions in upstream or downstream facilities or external factors such as planning controls.

Please circle "Yes" or "No"

YES

NO

3. MAXIMUM LOG SIZE

What is the maximum butt diameter of log you can cut?

Softwood

cm

Hardwood

cm

4. LONG LENGTH LOGS

Do you convert long length logs into shorter lengths before primary breakdown?

Please circle "Yes" or "No"

YES

NO

5. CONSUMPTION OF LOGS

What was the total consumption of British and imported logs in the year ending December 2000?

(This should be the volume sawn in the year rather than the volume purchased or delivered in the year. Please give **underbark** volume. If the size breakdown is not known, then an estimate is acceptable.)

a. Softwood

Total volume
of which :

- 16 cm and over top diameter (underbark)

- under 16 cm top diameter (underbark)

	m ³ or Hft
--	-----------------------

	m ³ or Hft
--	-----------------------

	m ³ or Hft
--	-----------------------

b. Hardwood

Total volume
of which :

- 40 cm and over top diameter (underbark)

- under 40 cm top diameter (underbark)

	m ³ or Hft
--	-----------------------

	m ³ or Hft
--	-----------------------

	m ³ or Hft
--	-----------------------

6. SOURCE OF LOGS

Approximately what % of softwood logs and what % of hardwood logs come from:

	Softwood	Hardwood
England	%	%
Wales	%	%
Scotland	%	%
Other Countries	%	%
Total	100 %	100 %

7. SPECIES OF WOOD CUT

For softwood logs and hardwood logs, please give the estimated percentage represented by each species.

a. Softwoods

Spruce	%
Pine	%
Other conifers	%
Total	100 %

b. Hardwoods

Oak	%
Ash	%
Beech	%
Sycamore	%
Elm	%
Other white hardwoods	%
Other hardwoods	%
Total	100 %

8. ROUGH SAWN TIMBER

Does the mill receive rough sawn timber for further processing? Please remember that any such timber should be **excluded** from figures for consumption and production.

Please circle "Yes" or "No"

YES

NO

9. PRODUCTION OF SAWNWOOD

What was the total volume of sawnwood produced by the mill in the year ending December 2000, from British and imported timber?

	Softwood	Hardwood	
Total volume produced	<input style="width: 80px; height: 30px;" type="text"/>	<input style="width: 80px; height: 30px;" type="text"/>	m ³ or cu ft

10. TYPES OF PRODUCT

Market classification: Please give the percentage of sawnwood production going to each of the following markets.

	Softwood	Hardwood
a. Construction (including agricultural buildings)	<input style="width: 60px; height: 25px;" type="text"/> %	<input style="width: 60px; height: 25px;" type="text"/> %
b. Fencing	<input style="width: 60px; height: 25px;" type="text"/> %	<input style="width: 60px; height: 25px;" type="text"/> %
c. Package and pallets	<input style="width: 60px; height: 25px;" type="text"/> %	<input style="width: 60px; height: 25px;" type="text"/> %
d. Sawn mining timber	<input style="width: 60px; height: 25px;" type="text"/> %	<input style="width: 60px; height: 25px;" type="text"/> %
e. Furniture	<input style="width: 60px; height: 25px;" type="text"/> %	<input style="width: 60px; height: 25px;" type="text"/> %
f. Other	<input style="width: 60px; height: 25px;" type="text"/> %	<input style="width: 60px; height: 25px;" type="text"/> %
	100 %	100 %

11. STOCKS OF SAWNWOOD

What was the total volume of sawnwood stocks held at the mill at the end of December 2000?

	Softwood	Hardwood	
Total volume of sawnwood stocks	<input style="width: 80px; height: 30px;" type="text"/>	<input style="width: 80px; height: 30px;" type="text"/>	m ³ or cu ft

12. ADDITIONAL FACILITIES OF THE SAWMILL

Does the mill have any of the following facilities? Please circle YES or NO for each.

a. Debarker	YES	NO
b. Log sorter	YES	NO
c. Drop sorter	YES	NO
d. Automatic sticker/stacker	YES	NO
e. Additional resawing / cross-cutting	YES	NO
f. Machining (e.g. planing, moulding)	YES	NO
g. Treatment plant	YES	NO

For the following facilities, please circle YES or NO. If YES, please also show the annual capacity and actual throughput in 2000.

		Annual Capacity	Actual throughput	
h. Machine strength grading	YES NO	<input type="text"/>	<input type="text"/>	m ³ or cu ft
i. Kiln drying	YES NO	<input type="text"/>	<input type="text"/>	m ³ or cu ft

13. EMPLOYMENT

Please provide estimates of the numbers of employees and contractors paid by the sawmill, for each of the categories shown below, split between direct (those for whom you are responsible for paying wages and National Insurance contributions) and contract (any others undertaking work for you).

Please do not include staff at the site whose work is not directly related to the sawmill (e.g. exclude anyone producing pallets or other wood products from sawnwood). Please include a rough estimate of time for those who work a part-year for the sawmill (e.g. count a full-time employee working slightly more than half the time for the sawmill as 0.6, or an employee who works part-time for 4 months as 0.2).

	Direct employees	Contractors & sub-contractors
Sawmill line workers	<input type="text"/>	<input type="text"/>
Secondary process workers	<input type="text"/>	<input type="text"/>
Others (e.g. fitters)	<input type="text"/>	<input type="text"/>
Haulage of timber to the mill	<input type="text"/>	<input type="text"/>
Haulage of products from the mill	<input type="text"/>	<input type="text"/>
Clerical staff	<input type="text"/>	<input type="text"/>
Marketing and sales staff	<input type="text"/>	<input type="text"/>
Supervising/managerial	<input type="text"/>	<input type="text"/>

14. CO-PRODUCTS

What quantities of co-products were produced in the year ending December 2000? This should include all co-products from the site, including those from secondary processing (additional resawing, cross-cutting and machining) and from processing of rough-sawn timber received at the site. Please give quantities in **green tonnes**.

	Softwood	Hardwood
a. Sold to wood processing industries		
Sawdust		
Slabwood		
Peeled Chips		
Unpeeled Chips		
Other		
b. Other sales, including those to agriculture		
Sawdust		
Slabwood		
Peeled Chips		
Unpeeled Chips		
Firewood		
Other		
c. Sold as bark		
d. Burnt for heat		
e. Disposed of by burning or as rubbish		

Thank you for completing this questionnaire. Please return it with the white form, in the Freepost envelope provided, addressed to Statistics Branch, Forestry Commission, Freepost, Edinburgh, EH12 0PD.