

11 Table T11 – Wood removals and value of removals

11.1 FRA 2010 Categories and definitions

Category	Definition
Industrial roundwood removals	The wood removed (volume of roundwood over bark) for production of goods and services other than energy production (woodfuel).
Woodfuel removals	The wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use.

11.2 National data

11.2.1 Data sources

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
JQ1 (and previous TB1) international returns	M	All	1988 to 2007	Updated to include JQ1 data submitted in 2008
Economic Accounts for Forestry	M	All	1988 to 2007	UK working sheets for 1998 and 2002, for unit values

11.2.2 Classification and definitions

National class	Definition
Removals	Removals of timber, mostly estimated from reported deliveries to wood processing industries

11.2.3 Original data

Removals 1988-1992 (000 m3 underbark)

	1988	1989	1990	1991	1992	Ave 98-02	1992 r
Total removals	5792	6273	6275	6352	6383	6215	6546
Softwood removals	4806	5143	5291	5376	5699	5263	5859
Hardwood removal	986	1131	984	976	684	952	687
Woodfuel	197	229	229	229	229	223	232
Softwood woodfuel	79	98	98	98	98	94	100
Hardwood woodfuel	118	131	131	131	131	129	132
Sawlogs	3331	3657	3638	3483	3438	3509	3561
Softwood sawlogs	2856	3044	3121	2925	3135	3016	3255
Hardwood sawlogs	475	613	517	558	303	493	306

Source: 1988 to 1992 from TB1 and related databases in 1994; 1992r from JQ1/TB1 database in 2001.

Removals 1998-2002 (000 m3 underbark)

	1998	1999	2000	2001	2002	Ave 98-02
Total removals	7,595	7,774	7,791	7,881	7,789	7766
Softwood removals	6,968	7,184	7,219	7,328	7,247	7189
Hardwood removal	627	590	572	553	542	577
Fuelwood	229	229	229	229	229	229
Softwood fuelwood	98	98	98	98	98	98
Hardwood fuelwood	131	131	131	131	131	131
Sawlogs	4295	4570	4570	4675	4735	4569
Softwood sawlogs	4072	4372	4396	4515	4593	4390
Hardwood sawlogs	223	198	174	160	142	179

Source: current JQ1 database

Removals 2003-2007 (000 m3 underbark)

	2003	2004	2005	2006	2007	Ave 03-07
Total removals	8073	8325	8524	8430	9018	8474
Softwood removals	7581	7877	8005	8047	8632	8028
Hardwood removal	492	448	519	383	386	446
Fuelwood	229	229	317	317	459	310
Softwood fuelwood	98	98	98	98	196	118
Hardwood fuelwood	131	131	219	219	263	193
Sawlogs	4935	5086	5046	5313	5715	5219
Softwood sawlogs	4814	5006	4983	5257	5657	5117
Hardwood sawlogs	121	80	63	56	58	76

Source: current JQ1 database

**Average unit values for sales from Forestry Commission direct working
(Financial years ending March, £/m³)**

£/m ³ underbark	1988-89	1989-90	1990-91	1991-92	1992-93	Average 88-89 to 92-93
C Sawlogs	35.55	36.79	38.33	32.94	31.93	35.11
C pulpwood / chipwood	15.30	16.22	20.80	21.23	20.23	18.75
Firewood	12.64	12.77	12.89	13.01	13.11	12.88

Source: working sheets for Economic Accounts for Forestry, 1998

£/m ³ standing volume	1998-99	1999-2000	2000-01	2001-02	2002-03	Average 98-99 to 02-03
C Sawlogs	26.17	23.98	23.86	22.87	21.84	23.74
C pulpwood / chipwood	19.43	17.49	16.78	16.59	16.25	17.31
Firewood	11.02	11.96	10.88	18.05	12.28	12.84

Source: Forest Enterprise harvesting & marketing data, in working sheets for Economic Accounts for Forestry, 2002 + update

£/m ³ standing volume	2003-04	2004-05	2005-06	2006-07	2007-08	Average 03-04 to 07-08
C Sawlogs	21.20	21.46	21.88	22.13	26.44	22.62
C pulpwood / chipwood	15.60	14.65	14.77	14.73	15.19	14.99
Firewood	11.83	12.92	13.02	13.36	13.03	12.83

Source: Forest Enterprise harvesting & marketing data, as above.

11.3 Analysis and processing of national data

11.3.1 Estimation and forecasting

Scaling up 1988-2002 by ratio of 1992r to original 1992, and from underbark to overbark
Estimation for 1990

	1988 to 1992 ave ub	1992r/ 1992	Overbark/ underbark	Ave 1988-1992 ob	Unit value £	Total value £m
Total removals	6215			7157		178.0
Softwood removals	5263			6063		
Hardwood removal	952			1094		
Woodfuel	223			256	11.50	2.9
Softwood woodfuel	94	1.018	1.120	108		
Hardwood woodfuel	129	1.006	1.143	148		
Sawlogs	3509			4077	31.35	127.8
Softwood sawlogs	3016	1.038	1.120	3507		
Hardwood sawlogs	493	1.010	1.143	569		
All others	2483			2824	16.74	47.3
All others softwood	2153	1.015	1.120	2448		
All others hardwood	330	0.996	1.143	376		

Source: Unit values from Forestry Commission sales (averages over 5 financial years), divided by 1.12 to convert from underbark to overbark unit values.

Estimation for 2000

	Ave 1998-2002 ub	Overbark/ underbark	Ave 1998-2002 ob	Unit value £	Total value £m
Total removals	7766		8711		202.9
Softwood removals	7189		8052		
Hardwood removal	577		659		
Woodfuel	229		259	14.26	3.7
Softwood woodfuel	98	1.120	110		
Hardwood woodfuel	131	1.143	150		
Sawlogs	4569		5121	26.38	135.1
Softwood sawlogs	4390	1.120	4916		
Hardwood sawlogs	179	1.143	205		
All others	2968		3330	19.23	64.0
All others softwood	2702	1.120	3026		
All others hardwood	266	1.143	304		

Sources: Unit values from Forestry Commission sales (averages over 5 financial years) divided by 0.9 to convert standing to felled overbark unit values.

Estimation for 2005

	Ave 2003-2007 ub	Overbark/ underbark	Ave 2003-2007 ob	Unit value £	Total value £m
Total removals	8474		9501		206.7
Softwood removals	8028		8992		
Hardwood removal	446		509		
Woodfuel	310		352	14.26	5.0
Softwood woodfuel	118	1.120	132		
Hardwood woodfuel	193	1.143	220		
Sawlogs	5219		5818	25.14	146.2
Softwood sawlogs	5117	1.120	5731		
Hardwood sawlogs	76	1.143	87		
All others	2945		3331	16.65	55.5
All others softwood	2794	1.120	3129		
All others hardwood	177	1.143	202		

Source: Unit values from Forestry Commission sales (averages over 5 financial years) divided by 0.9 to convert standing to felled overbark unit values.

Note – all estimations are copied from a spreadsheet using unrounded data.

11.3.2 Reclassification into FRA 2010 categories

No reclassification undertaken.

11.4 Data for Table T11

FRA 2010 Category	Industrial roundwood removals			Woodfuel removals		
	1990	2000	2005	1990	2000	2005
Total volume (1000 m ³ o.b.)	6,901	8,452	9,149	256	259	352
... of which from forest	6,901	8,452	9,149	256	259	352
Unit value (local currency / m ³ o.b.)	25.37	23.56	22.05	11.50	14.26	14.26
Total value (1000 local currency)	175,085	199,159	201,715	2,900	3,700	5,000

Note: The figures for the reporting years refer to the averages of the 5-year periods 1988-1992, 1998-2002 and 2003-2007 respectively.

	1990	2000	2005
Name of local currency	GBP	GBP	GBP

11.5 Comments to Table T11

Variable / category	Comments related to data, definitions, etc.	Comments on the reported trend
Total volume of industrial roundwood removals	The removals figures reported in JQ1 are considered to give good coverage of industrial roundwood, all from forests.	
Total volume of woodfuel removals	The figures reported in JQ1 for woodfuel for years up to 2007 were expert estimates, primarily for forests. Some additional information was obtained for JWEE 2008, and better information is being compiled from	

	new surveys in 2009. These may indicate additional volumes of woodfuel, including wood from areas outside forests, but figures are not available for use in FRA 2010.	
Unit value		
Total value		

Other general comments to the table