European Forest Accounts: UK 2016 data

Publication date: 13 December 2018
Coverage: United Kingdom
Geographical breakdown: None

Introduction

The European Forest Accounts (EFA) collects data on stocks and flows of woodland and timber, and economic data on forestry. The questionnaire, a replacement for the Integrated Environmental and Economic Accounting for Forestry (IEEAF), was piloted in 2015 (for the collection of 2013 data) and introduced in 2016 (for the collection of 2014 data). Statistics are collected annually by Eurostat.

UK data that is submitted to Eurostat via the EFA (and the IEEAF) is published annually at:

> www.forestresearch.gov.uk/tools-and-resources/statistics/statistics-by-topic/international-returns/european-forest-accounts/

The attached tables show data for 2016. Estimates for tables B 1 (previously IEEAF table 3c) and A 2 are shown for the first time in this return. Estimates for table A 1 have been previously published by the Forestry Commission (Forestry Statistics 2018).

Notes:

The full set of tables developed by Eurostat for the EFA are listed below, although only Tables A 1, A 2 and B 1 are identified as a core reporting requirement and have been completed for the UK.

> Table A 1a - Wooded land (physical)
> Table A 1b - Wooded land (monetary)
> Table A 2a - Timber (physical)
> Table A 2b - Timber (monetary)
> Table B 1 - Economic aggregates of the forestry and logging industry
> Table B 2 - Output of the forestry and logging industry by type
> Table B 3a - Monetary supply and use of wood in the rough - supply
> Table B 3b - Monetary supply and use of wood in the rough - use
> Table C 1a - Physical supply and use of wood in the rough - supply
> Table C 1b - Physical supply and use of wood in the rough - use

Figures in tables have been independently rounded, so may not add to the totals shown.

Next update:
Date to be confirmed

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Table A 1 - Wooded land

(a) Area of wooded land, in 1000 ha

Reference year = | 2016 |

Assets (stocks and flows)

Code	Description	11 Opening area (December t-1)	12 Afforestation and other increase (+)	13 Deforestation and other decrease (-)	15 Statistical re-classification (+/-)	99 Closing area (December t)
1	**Forest**	**3,159**	7		-2	**3,164**
1.1	Forest available for wood supply	3,159	7		-2	**3,164**
1.2	Forest not available for wood supply					
2	**Other wooded land**					
2.1	Of which available for wood supply					
3	**Other land with tree cover available for wood supply ***					

* Includes agro-forestry, short-rotation forestry and short-rotation coppices on agricultural land.

Data sources:

Forestry Commission, 2018. Forestry Statistics 2018 (and supporting data).

Comments on the compilation of the table:

Data only available for forests.

Opening area is as at 31 March 2016, closing area at 31 March 2017.

All forests are considered available for wood supply. In practice, there will be a small (unquantifiable) area that is not available for wood supply.

Annual estimates of woodland loss are not available.

Statistical internal reclassification relates to changes to the woodland map, resulting from both corrections and genuine change.

Table A 1 - Wooded land (cont.)

(b) Area of wooded land, in million national currency

Reference year = | 2016

Assets (stocks and flows)

Code	Description	21 Opening area (December t-1)	22 Afforestation and other increase (+)	23 Deforestation and other decrease (-)	24 Revaluation (+/-)	25 Statistical re-classification (+/-)	99 Closing area (December t)
1	**Forest**						
1.1	Forest available for wood supply						
1.2	Forest not available for wood supply						
2	**Other wooded land**						
2.1	Of which available for wood supply						
3	**Other land with tree cover available for wood supply ***						

* Includes agro-forestry, short-rotation forestry and short-rotation coppices on agricultural land.

Data sources:

Comments on the compilation of the table:

Monetary account not yet available - further work required to develop.

Table A 2 - Timber

(a) Timber on wooded land, in 1000 m3 over bark

Reference year =

2016

Asset stocks and flows

Code	Description	11 Opening stocks *1 (December t-1)	14 Net increment *2 (+)	16 Removals *3 (-)	17 Irretrievable losses *4 (-)	18 Statistical re-classification (+/-)	99 Closing stocks *1 (December t)
1	**Forest**	624,600	**20,400**	**12,728**	**1,530**		630,742
1.1	Forest available for wood supply	624,600	**20,400**	**12,728**	**1,530**		630,742
1.2	Forest not available for wood supply						
2	**Other wooded land**						
2.1	Of which available for wood supply						
3	**Other land with tree cover available for wood supply ***						

* Includes agro-forestry, short-rotation forestry and short-rotation coppices on agricultural land.

NOTES:

*1 The stock of timber includes the growing stock plus

- trees felled and still in the forest

- any major loss of live trees due to storms (windthrow) that will probably be used (retrievable); please report such major losses here:

1000 m3 over bark in the opening stock

1000 m3 over bark in the closing stock

In both cases, either the wood will be removed in the future, or it will be an irretrievable loss in a later year, when the timber becomes unusable.

*2 This is the average annual volume growth of live trees, calculated from the stock of live trees (growing stock) available at the start of the year minus the average annual mortality.
   The data for the calculation usually come from the national forest inventory.

*3 The removals are reported in the annual Joint Forest Sector Questionnaire (JFSQ).

*4 Includes felling residues, all fellings from windthrow that cannot be removed from the forest, as well as timber lost through forest fires.

Data sources:

Office for National Statistics, 2016. UK Environmental Accounts, 2016.
Forestry Commission, 2018. Forestry Statistics 2018 (and supporting data).

Comments on the compilation of the table:

Data only available for forests.
Opening stocks are as at 31 March 2016, closing stocks at 31 March 2017.
All forests are considered available for wood supply. In practice, there will be a small (unquantifiable) area that is not available for wood supply.

Table A 2 - Timber (cont.)

(b) Timber on wooded land, in million national currency

Reference year =   2016

Asset (stocks and flows)

Code	Description	21 Opening stocks (December t-1)	22 Net increment (+)	23 Removals *1 (-)	24 Irretrievable losses (-)	25 Revaluation (+/-)	26 Statistical re-classification (+/-)	99 Closing stocks (December t)
1	**Forest**	**7,841**	**297**	**180**	**40**		**124**	**8,042**
1.1	Forest available for wood supply	7,841	297	180	40		124	8,042
1.2	Forest not available for wood supply							
2	**Other wooded land**							
2.1	Of which available for wood supply							
3	**Other land with tree cover available for wood supply ***							

* Includes agro-forestry, short-rotation forestry and short-rotation coppices on agricultural land.

Data sources:

Provisional estimates, based on:

Office for National Statistics, 2016. UK Environmental Accounts, 2016.

Forestry Commission, 2018. Forestry Statistics 2018 (and supporting data).

Comments on the compilation of the table:

Values not currently available; these figures are provisional estimates, based on data reported in table A2a and figures reported for 2014.

Data only available for forests.

Opening stocks are as at 31 March 2016, closing stocks at 31 March 2017.

All forests are considered available for wood supply. In practice, there will be a small (unquantifiable) area that is not available for wood supply.

Table B 1 Economic aggregates of the forestry and logging industry (*excluding other industries*) [former Table 3c]

In million national currency

If the data do not allow you to report on the forestry and logging industry only, as separate from other industries, please explain this in the "Comments on the compilation of the table" below.

Reference year =		2012	2013	2014	2015	2016
Products and economic aggregates (current transactions)						
Code	Description	£ million	£ million	£ million	£ million	£ million
1	**Total output (at basic prices) [P.1]**	1,234	1,318	1,437	1,529	1,564
1.0	Of which output for own final use [P.12]					
1.1	Goods characteristic of the forestry and logging activity	694	742	881	831	848
1.1.1	Trees, tree plants and forest tree seeds	344	361	435	423	435
1.1.1.1	Live forest tree plants (02.10.11) and tree seeds (02.10.12)	25	29	29	29	29
1.1.1.2	Forest trees (02.10.30) *1	319	332	406	394	406
1.1.2	Wood in the rough (02.20.1)	345	375	440	403	408
1.1.2.1	Logs *2	312	335	387	347	352
1.1.2.2	Fuel wood (02.20.14 and 02.20.15)	33	41	53	56	56
1.1.4	Non-wood products (02.30) *3	5	5	5	5	5
1.2	Services characteristic of the forestry and logging activity *4	182	200	223	199	196
1.3	Other products from connected secondary activities in the local KAU *5	358	376	334	499	520
1.4	Other products (*)					
2	**Total intermediate consumption [P.2]**	875	757	831	857	919
2.1	Goods input	303	280	344	328	344
2.1.1	Trees, tree plants and forest tree seeds *6	188	204	246	233	242
2.1.2	Energy, lubricants *7	108	70	92	89	96
2.1.3	Fertilisers and soil improvers	3	3	3	3	3
2.1.4	Plant protection products and pesticides *8	4	3	3	3	3
2.2	Services input	240	235	223	250	268
2.2.1	Services characteristic of the forestry and logging activity *4	191	208	177	189	205
2.2.2	Regular maintenance and repair of equipment *9	10	8	11	11	11
2.2.3	Maintenance of buildings (*)	19	11	16	16	16
2.2.4	Financial services (FISIM) [P.119]	20	8	20	35	36
2.3	Other goods and services used as inputs (*)	333	242	264	279	308
3	**Gross value added (at basic prices) [B.1g]**	359	561	606	672	645
3.1	Consumption of fixed capital [P.51c]	88	94	98	103	113
3.2	**Net value added (at basic prices) [B.1n]**	271	467	508	569	532
3.2.1	Other taxes on production [D.29]					
3.2.2	Other subsidies on production [D.39]					
4	**Factor income**	270	465	505	567	530
4.1	Compensation of employees [D.1]	195	183	226	238	269
5	**Net operating surplus [B.2n] and Mixed income [B.3n]**	75	282	279	329	261
5.1	Net property income [D.4] *10	-8	-2	-8	-9	-9
5.2	**Net entrepreneurial income [B.4n]**	68	280	272	321	253
6	**Gross fixed capital formation (excluding deductible VAT) [P.51g]**	37	46	111	188	132
6.1	Planting of trees to provide regular income	0	0	0	0	0
6.2	Equipment and buildings	37	46	111	188	132
6.3	Other GFCF(*)					
7	**Net fixed capital formation (excluding deductible VAT) [P.51n]**	-51	-48	13	85	19
8	**Changes in inventories [P.52]**	100	111	112	115	117
8.1	Work-in-progress on cultivated biological assets [AN.1221]*11	119	114	107	117	117
8.2	Other changes in inventories (*)	-19	-3	5	-2	0
9	**Capital transfers (net) [D.9]**					
10	**Total labour input** [L] **(in 1000 AWU) *12**	15	14	16	17	17
10.1	Of which self-employed (in 1000 AWU)					

NOTES:

*1   Forest tree output includes the net increment of timber in cultivated forests (02.10.30) and sales of timber from uncultivated forests. The value of forest trees is usually indicated in stumpage prices for standing timber.

*2   Log output includes logs of coniferous wood (02.20.11), logs of non-coniferous wood, except tropical wood (02.20.12), logs of tropical wood (02.20.13) and any other wood in the rough except fuel wood.

*3   Non-wood product output includes natural gums (02.30.1), cork (02.30.2), parts of plants, grasses, mosses and lichens suitable for ornamental purposes (02.30.3), wild-growing edible products (02.30.4) and any other wild-growing non-wood products.

*4   Characteristic services output and input include forest trees nursery services (02.10.2), support services to forestry (02.4) and any other services provided by a local Kind of Activity Unit (KAU) belonging to the forestry industry.

*5   Other products from connected secondary activities of the local KAUs belonging to the forestry industry are mushrooms and truffles (01.13.8), other berries, the fruits of the genus vaccinium n.e.c. (01.25.19), natural rubber (01.29.10), other wood in rough including split poles and pickets (16.10.39), wood charcoal (20.14.72), nature reserve services including wildlife preservation services (91.04.12) and any other product produced by a local KAU.

*6   Trees and tree plants used as input include live forest tree plants (02.10.11), forest tree seeds (02.10.12) and forest trees (02.10.3) bought to produce timber. The value of forest trees is usually indicated in stumpage prices for standing timber.

*7   Energy and lubricants used as input include electricity (35.11.10), motor spirit (gasoline) (19.20.21), natural gas, liquefied or in the gaseous state (06.20.10), lubricating petroleum oils and heavy preparations n.e.c. (19.20.29) and other similar products.

*8   Plant protection products and pesticides used as input include: insecticides (20.20.11), fungicides (20.20.15), herbicides (20.20.12) and other similar products.

*9   Regular maintenance and repair of equipment used as input includes repair and maintenance services of forestry machinery (33.12.21) and repair and maintenance services of motor vehicles (45.20).

*10   Net property income includes interest [D.41], distributed income of corporations [D.42], reinvested earnings on foreign direct investment [D.43], other investment income [D.44] and rent [D.45] received, minus interest [D.41], property income and rent [D.45] paid.

*11   This value can be approximated by the value of the net increment of timber cultivated in forests available for wood supply minus the value of the timber removed from those forests by logging, see Table A2b.

*12   One annual work unit (AWU) corresponds to the work performed by one person occupied on a full-time basis. Full-time means the minimum hours required by the relevant national provisions governing contracts of employment. If the national provisions do not indicate the number of hours, then 1 800 hours are taken to be the minimum annual working hours, equivalent to 225 working days of eight hours each. One person cannot represent more than one AWU. This constraint holds even if the person works for more than the number of hours defining full time.

N.B.
- CPA Ver. 2.1 (2015) and NACE Rev. 2 (2008) codes are indicated in round brackets;
- ESA 2010 codes are indicated in square brackets;

(*) If other products are included, please explain:

Data sources:
UK National Accounts, UK statistics on wood production, Forestry Commission financial accounts and other data sources and estimates.

Comments on the compilation of the table:
Figures have been revised from previous versions for greater consistency with UK National Accounts data. This has generally resulted in increases to some estimates. It has not been possible to allocate the additional output resulting from this revision to specific products or services. The figures shown against item 1.3 therefore represent the unallocated balance.
Estimates for 2012 to 2015 on this expanded basis have also been included, to provide a consistent time series for the revised 2016 figures.

Table B 2 - Output of the forest and logging industry by type

Output by economic type and institutional producing sector, in million national currency

Forestry and logging industry <u>only</u>

Reference year =   2016

Economic aggregates (current transactions)

Code	Description	31 Own final use [P.12]	32 Market	33 Non market	**99** **Total**	41 *of which:* Households [S.14]
2	**Output (at basic prices) [P.1]**					

NOTES:

- ESA 2010 codes are indicated in square brackets.

Data sources:

Comments on the compilation of the table:

Table B 3 - Monetary supply and use of wood in the rough

(a) Supply of wood in the rough by all industries, in million national currency

Reference year = | 2016 |

Economic aggregates (current transactions)

SUPPLY

Code	Description	51.0 Forestry and logging industry (Division 02)	51.1 Other Industries (if any)	**51 Supply of products by industries**	61 Imports (CIF)	**62 Total supply (at basic prices)**	63 Trade and transport margins	**64 Taxes less subsides on products**	**65 Total supply (at purchasers' prices)**
1.1.3	Wood in the rough (02.20.1)								

NOTES:

- CPA Ver. 2.1 (2015) and NACE Rev. 2 (2008) codes are indicated in round brackets;

- Imports are reported at 'Cost, Insurance and Freight' (CIF) prices.

Data sources:

Comments on the compilation of the table:

Table B 3 - Monetary supply and use of wood in the rough (cont.)

(b) Use of wood in the rough by all industries, in million national currency

Reference year =   **2016**

Economic aggregates (current transactions)

USE

Code	Description	51.0 Forestry and logging industry (Division 02)	51.1 Other industries (if any)	**51 Use of products by industries**	71 Final Consumption	72 Capital formation	73 Exports (FOB)	**74 Total use (at purchasers' prices)**
1.1.3.20	Wood in the rough (02.20.1)							

(*) If products are included for other industries besides Forestry and logging (Div. 02), please explain:

NOTES:

- CPA Ver. 2.1 (2015) and NACE Rev. 2 (2008) codes are indicated in round brackets;

- Exports are reported at 'Free On Board' (FOB) prices of the exporting country.

Data sources:

Comments on the compilation of the table:

Table C 1 - Physical supply and use of wood in the rough

(a) Supply of wood in the rough by all industries, in 1000 m3 over bark

Reference year =

2016

Physical aggregates (current transactions)

SUPPLY

Code	Description	51.0 Forestry and logging industry (Division 02)	51.1 Other industries (if any)	**51 Supply of products by industries**	60 Imports	99 Total supply
1.1.3	Wood in the rough (02.20.1)					
1.1.3.1	Logs					
1.1.3.1.1	Coniferous wood (02.20.11)					
1.1.3.1.2	Non-coniferous wood, except tropical wood (02.20.12)					
1.1.3.1.3	Tropical wood (02.20.13)					
1.1.3.2	Fuel wood					
1.1.3.2.1	Fuel wood of coniferous wood (02.20.14)					
1.1.3.2.2	Fuel wood of non-coniferous wood (02.20.15)					

NOTES:

- CPA Ver. 2.1 (2015) and NACE Rev. 2 (2008) codes are indicated in round brackets;

Data sources:

Comments on the compilation of the table:

Table C 1 - Physical supply and use of wood in the rough (cont.)

(b) Use of wood in the rough by all industries, in 1000 m3 over bark

Reference year =

| 2016 |

Physical aggregates (current transactions)

USE

Code	Description	51.0 Forestry and logging industry (Division 02)	51.1 Other industries (if any)	**51 Use of products by industries**	71 Final consumption and capital formation	72 Exports	99 Total use
1.1.3.20	Wood in the rough (02.20.1)						
1.1.3.1.20	Logs						
1.1.3.1.1.20	Coniferous wood (02.20.11)						
1.1.3.1.2.20	Non-coniferous wood, except tropical wood (02.20.12)						
1.1.3.1.3.20	Tropical wood (02.20.13)						
1.1.3.2.20	Fuel wood						
1.1.3.2.20.1	Fuel wood of coniferous wood (02.20.14)						
1.1.3.2.20.2	Fuel wood of non-coniferous wood (02.20.15)						

NOTES:

- CPA Ver. 2.1 (2015) and NACE Rev. 2 (2008) codes are indicated in round brackets;

Data sources:

Comments on the compilation of the table: