

United Kingdom

Reporting Form 1.4: Carbon stock

Pan-European indicator 1.4: Carbon stock of woody biomass on forest and other wooded land.

Related SoEF definitions: Forest, Other wooded land, Carbon in above ground biomass, Carbon in below-ground biomass, Carbon in deadwood, Carbon in litter, Soil carbon.

Table 1.4: Carbon stock

Category	Year	Carbon in above-ground and below-ground living biomass		Carbon in deadwood and litter		Soil carbon
		Above-ground	Below-ground	Deadwood	Litter	
Million metric tonnes						
Forest	2010	117	19	2	25	730
	2005	111	17	2	25	718
	2000	104	15	2	25	702
	1990	106	14	2	25	656
Other wooded land	2010	0	0	0	0	3
	2005	0	0	0	0	3
	2000	0	0	0	0	3
	1990	0	0	0	0	3
Total forest and other wooded land	2010	117	19	2	25	733
	2005	111	17	2	25	721
	2000	104	15	2	25	705
	1990	106	14	2	25	659

Country comments:

Category	Comments related to data, definitions, conversion factors used, etc.	Comments on trend(s)
Total carbon stock		

Carbon stock in above-ground living biomass	As in FRA 2010, which corrected figures in FRA 2005 . Better factors should be available from the models being developed for the 2011 Production Forecast, but are not available in time for this report.	
Carbon stock in below-ground living biomass	As in FRA 2010 (expand?)	
Carbon stock in deadwood	As in FRA 2010 (expand?)	
Carbon stock in litter	As in FRA 2010 (expand?)	
Carbon stock in soil	As in FRA 2010. The soil carbon content is relatively high, because much of the new woodland creation in the 20th century area consisted of conifer plantations on upland peaty soils. Also note that the carbon estimates are to a depth of 1 metre.	
Biomass / carbon conversion factor used / applied	0.5	

Specification of threshold value:

Item	Value
Soil depth (cm)	1 metre

Reporting notes:

1. Data sources: please specify sources separately for forest, other wooded land and total FOWL if sources differ... Quotes of countries' official reporting on forest carbon are welcome.
2. Growing stock / biomass conversion factors: please list all conversion factors such as biomass expansion factors and indicate related source of conversion factor if more than one are used.
3. Please, report in the " <i>Country comments</i> " the biomass / carbon conversion factor used, also if the default factor has been used.
4. Soil and litter conversion factors: please list all conversion factors and indicate related source of conversion factor if more than one are used.
5. You might wish to provide additional data (in " <i>Country comments</i> " or a supplementary table) which would show an "annual average increment of carbon" and explain any inconsistency with the data in table 1.4.

6. When compiling the Reporting Form please follow explanations / recommendations on this parameter, which were given in the corresponding FRA-2010 background documentation / guidelines <http://www.fao.org/forestry/51315/en/> .

Data sources:

References to sources of information	Quality (H/M/L)	Table 1.4 Category	Year(s)	Type of inventory	Additional comments
NIWT 1995-99: Analysis of Management & Biodiversity Data (Gilbert, 2007)	M	Deadwood	1995-99	From 1% field sample	
Growing stock (as in 1.2)	M	Above ground growing stock	All		See comments in 1.2
R. Milne, I, Bradley, C. Jordan and T. A.W. Brown (2004) Development of an improved version of the soil carbon inventory for the UK LULUCF GHG Inventory. & D. Mobbs).	M	Soil carbon	1990		In: UK Emissions by Sources and Removals by Sinks due to Land Use, Land Use Change and Forestry Activities. Annual report (2004) for DEFRA Contract CEPG1/GA01054 (Ed. By R. Milne & D. Mobbs).
I. Bradley (2003) UK soil database for modelling soil carbon fluxes and land use for the national carbon dioxide inventory. Final project report to Defra for Project SP0511	M	Soil carbon	1990		

R. Milne, R. W. Tomlinson, D. Mobbs and T.D. Murray (2004) Land Use Change and Forestry: The 2002 UK Greenhouse Gas Inventory and projections to 2020.	M	Soil carbon	Projecting from 1990 to 2000, 2005 and 2010		In 2004 publication cited above
R. Milne, Centre for Ecology & Hydrology, personal communications, 2004-2005	M	Soil carbon, carbon in litter	All		
Forestry statistics databases	H	Soil carbon	All		Woodland area, to extrapolate estimates of soil carbon