

# FRA and pan-European 2020 reporting content –

## *Criterion 6* (Socio-economic functions and conditions)

reporting forms, linkages between FRA and pan-European reporting, definitions

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## 6.1 FOREST HOLDINGS

Category	Forest area (1000 ha)		Number of holdings		Area and number of holdings by size classes (≤ 10 ha; 11-500 ha; ≥ 500 ha)	
	Reporting		Reporting		Reporting	
	Pan- European 2020	FRA 2020	Pan- European 2020	FRA 2020	Pan- European 2020	FRA 2020
<b>Private ownership</b>	Yes (6.1)	Yes (4a)	Yes (6.1)	No	Yes (6.1)	No
..of which owned by <b>individuals</b>	Yes (6.1)	Yes (4a)	Yes (6.1)	No	Yes (6.1)	No
..of which owned by <b>private business entities</b>	Yes (6.1)	Yes (4a)	Yes (6.1)	No	Yes (6.1)	No
..of which owned by <b>local, tribal and indigenous communities</b>	Yes (6.1)	Yes (4a)	Yes (6.1)	No	Yes (6.1)	No
<b>Public ownership</b>	Yes (6.1)	Yes (4a)	Yes (6.1)	No	Yes (6.1)	No
<b>Other / Unknown</b>	Yes (6.1)	Yes (4a)	Yes (6.1)	No	Yes (6.1)	No
<b>Total forest area</b>		calc.				

Comment: The same definition for both processes

## 6.1 FOREST HOLDINGS

Holder of management rights of public forests	Pan-European 2020	FRA 2020
<b>Public Administration</b>	No	Yes (4b)
<b>Individuals</b>	No	Yes (4b)
<b>Private business entities and institutions</b>	No	Yes (4b)
<b>Local, tribal and indigenous communities</b>	No	Yes (4b)
<b>Other (specify in comments)</b>	No	Yes (4b)
<b>Total public ownership</b>		calc.

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	Yes	Yes	No	Yes	Yes

### Notes:

- Please ensure that the area of Forest in Table 1.1a / 1a equals the sum of its sub-categories in Table 6.1 / 4a.
- Please ensure that the area of forest in Public ownership in Table 4a equals sum of its sub-categories in Table 4b.

## 6.2 CONTRIBUTION OF FOREST SECTOR TO GDP

Categories (Million national currency, % of total GVA)	Reporting	
	Pan-European 2020	FRA 2020
<b>Gross Value Added</b>		
<b>Forestry (ISIC/NACE 02)</b>	Yes (6.2)	No
<b>Manufacture of wood and articles in wood (ISIC/NACE 16)</b>	Yes (6.2)	No
<b>Manufacture of paper and paper products (ISIC/NACE 17)</b>	Yes (6.2)	No

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	No	No	No	No	No

## 6.2 CONTRIBUTION OF FOREST SECTOR TO GDP

1. Prefilling: This table has been prefilled with data extracted from EUROSTAT Database available at <http://ec.europa.eu/eurostat/data/database> (National accounts aggregates by industry [nama\_10\_a64]). Data on Annual national accounts (GDP and main components [nama\_10\_gdp]) were used in denominator to calculate percentage.
2. For the estimation of contribution to **Gross Domestic Product (GDP)**, data on **Gross Value Added (GVA)** should be used. GVA measures the contribution to the economy of each individual producer, industry or sector in the country. (The link between GVA and GDP can be defined as:  $GVA + \text{taxes on products} - \text{subsidies on products} = \text{GDP}$ .)
3. For 2015 the 2008 **NACE Rev.2/ISIC categories (02, 16, 17)** should be used, and for previous years using the corresponding former NACE/ISIC categories 02, 20, 21. Adjustments from the old to the new NACE/ISIC are not needed.
4. Data on GVA for each economic activity should be available from the National Accounts prepared by the country's national statistical authority. If a different source is used, please explain in comments.

## *Forestry and logging (ISIC/NACE 02)*

This division includes the production of roundwood for the forest-based manufacturing industries (ISIC divisions 16 and 17) as well as the extraction and gathering of wild growing non-wood forest products. Besides the production of timber, forestry activities result in products that undergo little processing, such as fire wood, charcoal, wood chips and roundwood used in an unprocessed form (e.g. pit-props, pulpwood etc.). These activities can be carried out in natural or planted forests.

The major categories covered by this class are:

021 Silviculture and other forestry activities

022 Logging

023 Gathering of non-wood forest products

024 Support services to forestry of products of wood, cork, straw and plaiting materials.

*Manufacture of wood and of products of wood and cork, except furniture;  
manufacture of articles of straw and plaiting materials (ISIC/NACE 16)*

This division includes the manufacture of wood products, such as lumber, plywood, veneers, wood containers, wood flooring, wood trusses, and prefabricated wood buildings. The production processes include sawing, planing, shaping, laminating, and assembling of wood products starting from logs that are cut into bolts, or lumber that may then be cut further, or shaped by lathes or other shaping tools. The lumber or other transformed wood shapes may also be subsequently planed or smoothed, and assembled into finished products, such as wood containers. With the exception of sawmilling, this division is subdivided mainly based on the specific products manufactured.

This division does not include the manufacture of furniture (3100), or the installation of wooden fittings and the like (4330).

The major categories covered by this class are:

161 Sawmilling and planing of wood,

162 Manufacture of products of wood, cork, straw and plaiting materials.

## *Manufacture of paper and paper products (ISIC/NACE 17)*

This division includes the manufacture of pulp, paper and converted paper products. The manufacture of these products is grouped together because they constitute a series of vertically connected processes. More than one activity is often carried out in a single unit. There are essentially three activities: The manufacture of pulp involves separating the cellulose fibers from other impurities in wood or used paper. The manufacture of paper involves matting these fibers into a sheet. Converted paper products are made from paper and other materials by various cutting and shaping techniques, including coating and laminating activities. The paper articles may be printed (e.g. wallpaper, gift wrap etc.), as long as the printing of information is not the main purpose.

The production of pulp, paper and paperboard in bulk is included in class 1701, while the remaining classes include the production of further-processed paper and paper products.



## 6.2 CONTRIBUTION OF FOREST SECTOR TO GDP

Categories ( <i>Million national currency, % of total GVA</i> )	Reporting	
	Pan-European 2020	FRA 2020
<b>Gross Value Added</b>		
<b>Forestry (ISIC/NACE 02)</b>	Yes (6.2)	No
<b>Manufacture of wood and articles in wood (ISIC/NACE 16)</b>	Yes (6.2)	No
<b>Manufacture of paper and paper products (ISIC/NACE 17)</b>	Yes (6.2)	No

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	No	No	No	No	No

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The production of pulp, paper and paperboard in bulk is included in class 1701, while the remaining classes include the production of further-processed paper and paper products.

## 6.3 NET REVENUE

Categories ( <i>Million national currency</i> )	Reporting	
	Pan-European 2020	FRA 2020
<b>Forestry (ISIC/NACE 02)</b>		
<b>Factor income</b>	Yes (6.3)	No
<b>Net operating surplus</b>	Yes (6.3)	No

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	No	No	No	No	No

## 6.3 NET REVENUE

1. Prefilling: This table has been prefilled with data extracted from EUROSTAT Database available at <http://ec.europa.eu/eurostat/data/database> (Economic aggregates of forestry (for\_eco\_cp)).
2. For countries that completed EUROSTAT Economic Accounts for Forestry, or the economic accounts table in IEEAF, this table has been pre-filled to the extent possible using data from EUROSTAT. These should be validated by the national correspondent, consulting with the person responsible for reporting to EUROSTAT. If information is not available from this source, please consult a statistician responsible for National Accounts, who may be able to assist.
2. **Factor income** measures the remuneration of all factors of production (land, capital, labour) and represents all the value generated by a unit engaged in a production activity. It can be derived from Gross Value Added (GVA) by deducting fixed capital consumption (depreciation) to get net value added, and then adjusting from basic prices to factor cost by subtracting any taxes on production and adding any subsidies on production.
3. **Net operating surplus** can be derived from factor income by subtracting compensation of employees.

## 6.4 INVESTMENTS IN FORESTS AND FORESTRY

Categories ( <i>Million national currency</i> )	Reporting	
	Pan-European 2020	FRA 2020
<b>Forestry (ISIC/NACE 02)</b>		
<b>Gross fixed capital formation</b>		
Planting of trees to provide regular income	Yes (6.4a)	No
Equipment and buildings	Yes (6.4a)	No
Other Gross fixed capital formation	Yes (6.4a)	No
<b>Total</b>	Yes (6.4a)	No
<b>Fixed capital consumption</b>	Yes (6.4b)	No
<b>Capital transfers</b>	Yes (6.4c)	No

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	No	No	No	No	No



## 6.4 INVESTMENTS IN FORESTS AND FORESTRY

1. Prefilling: This table has been prefilled with data extracted from EUROSTAT Database available at <http://ec.europa.eu/eurostat/data/database> (Economic aggregates of forestry (for\_eco\_cp)).
2. For countries that completed Eurostat Economic Accounts for Forestry, or the economic accounts table in EFA, this table has been pre-filled to the extent possible using data from Eurostat. These should be validated by the national correspondent, consulting with the person responsible for reporting to Eurostat. If information is not available from this source, please consult a statistician responsible for National Accounts, who may be able to assist.
3. Data sources: reference area for reporting is “**Total FOWL**”, not further divided into sub-classes “Forest” and “Other wooded land”. If data are available for sub-class “Forest” only, please report on this sub-class and provide note under “Country comments”. If data are available only for certain forest areas or ownership classes (e.g. state forests), but not for others, data should be reported for these areas or classes, which should be specified in “Country comments”.

## 6.4 INVESTMENTS IN FORESTS AND FORESTRY

4. **“Gross fixed capital formation”** is as resident producers’ acquisitions less disposals of fixed assets during the accounting period plus certain additions to the value of non-produced assets (such as improvements in the quality or productivity of land) realised by the productive activity of producer or institutional units.
  - **“Gross fixed capital formation in planting of trees to provide regular income”** includes cultivation of land to create new forest plantations as mean of production of forest products (e.g. cork, natural gum and similar products). Fixed assets must provide annual income.
  - **“Gross fixed capital formation in equipment and buildings”** includes machinery and other equipment, transport equipment, non-residential forestry buildings, forest roads and paths.
  - **“Other gross fixed capital formation”** includes software, management plans, major improvements to forest land (drainage, preparing soil, protection structure etc.) and other.
5. **“Fixed capital consumption”** is the value of the depreciation of fixed capital goods as a result of normal wear and tear in the course of production process.
6. **“Capital transfers”** include all receivable capital transfers, i.e. investment grants and other capital transfers.

## 6.5 FOREST SECTOR WORKFORCE

Category	Employment total FTE 1000 persons		Employment by gender (Male; Female)		Employment by age groups (15-49; 50+)	
	Reporting		Reporting		Reporting	
	Pan- European 2020	FRA 2020	Pan- European 2020	FRA 2020	Pan- European 2020	FRA 2020
<b>Forestry (ISIC/NACE 02)</b>	Yes (6.5a)	Yes (7a)	Yes (6.5a)	Yes (7a)	Yes (6.5a)	No
..of which <u>silviculture and other forestry activities</u>	No*	Yes (7a)	No*	Yes (7a)	No*	No
..of which logging	No*	Yes (7a)	No*	Yes (7a)	No*	No
..of which <u>gathering of non wood products</u>	No*	Yes (7a)	No*	Yes (7a)	No*	No
..of which support services to forestry	No*	Yes (7a)	No*	Yes (7a)	No*	No
<b>Manufacture of wood and articles in wood (ISIC/NACE 16)</b>	Yes (6.5a)	No	Yes (6.5a)	No	Yes (6.5a)	No
<b>Manufacture of paper and paper products (ISIC/NACE 17)</b>	Yes (6.5a)	No	Yes (6.5a)	No	Yes (6.5a)	No

Comment: The same definition for both processes

## 6.5 FOREST SECTOR WORKFORCE

Category	Employment by education (categories ISCED 1997: 0-2; 3-4; 5-6) 1000 persons		Employment by job characteristics (Employees; Self- employed) 1000 persons	
	Reporting		Reporting	
	Pan-European 2020	FRA 2020	Pan- European 2020	FRA 2020
<b>Forestry (ISIC/NACE 02)</b>	Yes (6.5b)	No	Yes (6.5b)	No
<b>Manufacture of wood and articles in wood (ISIC/NACE 16)</b>	Yes (6.5b)	No	Yes (6.5b)	No
<b>Manufacture of paper and paper products (ISIC/NACE 17)</b>	Yes (6.5b)	No	Yes (6.5b)	No

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	Yes	Yes	No	Yes	Yes

### Notes:

- Figures are reported as 3 year average.
- Please report also figures on Graduation of students in forest-related education (3 year average) in FRA Table 7b (by degrees: Doctoral; Master; Bachelor; Technician certificate and by gender: Male; Female)

## 6.6 OCCUPATIONAL SAFETY AND HEALTH

Category	Fatal occupational accidents (Number; Annual rate per 1000 workers)		Non-fatal occupational accidents (Number; Annual rate per 1000 workers)	
	Reporting		Reporting	
	Pan-European 2020	FRA 2020	Pan-European 2020	FRA 2020
<b>Forestry (ISIC/NACE 02)</b>	Yes (6.6)	No	Yes (6.6)	No

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	No	No	No	No	No

### Notes:

- Figures are reported as 5 year average.
- Please provide Threshold for reporting non-fatal accidents (days of absence) and further information on related data in Country comments.

## 6.9 WOOD ENERGY

Categories (TJ; 1000 metric tonnes dry matter)	Reporting	
	Pan-European 2020	FRA 2020
<b>Total primary energy supply</b>	Yes (6.9)	No
<b>Total renewable energy supply</b>	Yes (6.9)	No
<b>Total energy supply from wood:</b>	Yes (6.9)	No
<b>Energy from direct wood fibre sources:</b>	Yes (6.9)	No
of which from forests:	Yes (6.9)	No
of which from other wooded land and other land (trees outside forests):	Yes (6.9)	No
<b>Energy from co-products and residues of the wood processing industries:"</b>	Yes (6.9)	No
of which solid residues (chips, particles, wood residues, bark, excluding processed wood-based fuels):	Yes (6.9)	No
<b>Energy from processed wood-based fuels (pellets, briquettes, charcoal):</b>	Yes (6.9)	No
of which imported	Yes (6.9)	No
<b>Energy from post-consumer recovered wood</b>	Yes (6.9)	No
<b>Energy from unknown/unspecified sources</b>	Yes (6.9)	No

Process	Reporting years				
	2007	2009	2011	2013	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	No	No	No	No	No

## 6.9 WOOD ENERGY

1. Prefilling: The categories in the reporting form are fully consistent with the main categories requested by the Joint Wood Energy Enquiry (JWEE). Data from the JWEE are prefilled for countries that replied to the JWEE. More information on the JWEE including the enquiry and the manual is available at: <http://www.unece.org/forests/jwee.html> or at a national correspondent for JWEE in your country.
2. Total Energy from direct wood fibre sources may include energy produced from direct wood fibre from unspecified sources: the total value for this category could be larger than the sum of energy from Forests & other wooded land and Other land (trees outside forests).

## 6.10 RECREATION IN FORESTS

Category	Area available for public recreation (1000 ha; % of total)		Area primarily designated or managed for public recreation (1000 ha; % of total)	
	Reporting		Reporting	
	Pan-European 2020	FRA 2020	Pan-European 2020	FRA 2020
<b>Total forest and other wooded land</b>	Yes (6.10a)	No	Yes (6.10a)	No

Process	Reporting years				
	1990	2000	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes	Yes	Yes
<b>FRA</b>	No	No	No	No	No



## 6.10 RECREATION IN FORESTS

Category	Annual number of visits (million)			
	Area available for public recreation		Area primarily designated or managed for public recreation	
	Reporting		Reporting	
	Pan-European 2020	FRA 2020	Pan-European 2020	FRA 2020
<b>Total forest and other wooded land</b>	Yes (6.10b)	No	Yes (6.10b)	No

Process	Reporting years		
	2005	2010	2015
<b>Pan-European</b>	Yes	Yes	Yes
<b>FRA</b>	No	No	No

## 6.10 RECREATION IN FORESTS

Category	Facility (length in 1000 km)			
	Forest roads and paths available for public recreation		... of which designated for hiking, biking, cross country skiing	
	Reporting		Reporting	
	Pan-European 2020	FRA 2020	Pan-European 2020	FRA 2020
Area available for public recreation	Yes (6.10c)	No	Yes (6.10c)	No

Process	Reporting years
	2015
Pan-European	Yes
FRA	No

## 6.10 RECREATION IN FORESTS

Category	<b>Other recreation facilities - pilot reporting (2015)</b>	
	<b>(Facility; Measurement unit; Extent/Multiplicity; Facility category)</b>	
	<b>Reporting</b>	
	<b>Pan-European 2020</b>	<b>FRA 2020</b>
<b>Area available for public recreation</b>	Yes (6.10d)	No

**Pre-defined categories:**

Accommodation facilities (mountain hotels, cottages, apartments)  
 Camping sites  
 Overnight shelters  
 Picnic sites  
 Nature schools  
 Sites for nature studying (educational walkways, nature exhibitions, protected sites, geological localities, sites of cultural heritage, famous trees ...)  
 Bird and wildlife watching localities  
 Cableways and lifts  
 Parking lots  
 Other facilities