



Regional Forest Information Week

State of forests and forest management in the UNECE region
in the context of current needs and challenges

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Socio-Economic Functions

By Simon Gillam



Social and Economic Indicators

- Covers wide range of topics
- State of Europe' s Forests
 - 11 indicators in Criterion 6
 - 3 indicators in Criterion 3
- Global Forest Resources Assessment
 - Parts or all of 7 tables



Economic – Quantity and Value of Wood Removals

- SOEF 3.2 Roundwood
 - Overall value of marketed roundwood is increasing.
 - 17.7 billion Euro in 2010.
 - Europe remains one of the main producers in the world.
- Global FRA Table T11 (2005)

	Europe	US/Canada
Total wood million m ³	735	749
Woodfuel million m ³	167	54
Total wood \$ billion	>21	36
Woodfuel \$ billion	>3.4	0.3



Economic – Quantity of Wood Consumption

- SOEF 6.7 Wood Consumption
 - Wood consumption increased in most regions of Europe since 1990.
 - Decline in 2008-2009 with economic crisis.
 - Wood for energy continued to rise.



Economic – Quantity and Value of Trade in Wood

- SOEF 6.8 Trade in wood
 - Trade in wood doubled between 1990 and 2005.
 - Decline in 2008-2009 with economic crisis.
 - Boom in trade in chips and pellets.



Economic – Energy from Wood

- SOEF 6.9 Energy from wood resources
 - In 2007, 2.5% of total final energy consumption.
 - Number of responses doubled since the last State of Europe's Forests.
 - On policy agenda of both energy and forestry - renewable energy targets in many countries.



Economic – Value of Non-wood Goods

- SOEF 3.3 Non-wood goods
 - 2.5 billion Euro marketed value.
 - Value almost tripled since the 2007 assessment (higher quality reporting).
 - Christmas trees, fruits and berries, and cork represent 64% of the total value.
 - Represents 15% of the roundwood value when comparing countries reporting both.
- Global FRA Table T12 (Estimate of total value, not just marketed)
 - \$7.7 billion for Europe (of which \$5.1 billion Russia)
 - \$1.6 billion for US/Canada.



Economic – Value of Services

- SOEF 3.4 Services
 - 0.9 billion Euro, similar to the level reported in 2007.
 - Some indicators suggest positive trend, but difficulties in reporting.
 - Represents 7% of the roundwood value when comparing countries that reported both.



Economic – Value Added

- SOEF 6.2 Forest sector contribution to GDP
 - Forestry, wood industries and pulp and paper industry combined contribute 1 percent to GDP.
 - Decreasing as other sectors of the economy grow faster.
 - Pulp and paper industry is performing worst among the three forest subsectors - steep decline over the past decade.



Economic – Net revenue

- SOEF 6.3 Forestry net revenue
 - Net revenue (net value added) per hectare varies between regions.
 - During the period 2005-2010 most regions had an increase in net value added.
 - Net entrepreneurial income shows a similar picture to net value added.



Economic – Expenditures for Services

- SOEF 6.4 Expenditures for Services (Government expenditure for long-term sustainable services from forests)
 - Total expenditure of 3.2 billion Euro reported:
 - 50% on ecological services;
 - 10% on biospheric, social and amenity services;
 - 40% on other services.
- Global FRA T17 Public expenditure on forestry (\$ billion, 2005)

	Europe	US (Canada n.a.)
Operational expenditure	2.4	5.2
Transfer payments	1.7	0.6



By Simon Gillam, ToS on Monitoring SFM



Social – Forest holdings

- SOEF 6.1 Forest holdings
 - Public and private forest area in Europe (outside Russian Federation) are each about 100 million hectares. About 800 million hectares of public forest in the Russian Federation.
 - Number of forest holdings in public ownership has been relatively constant or decreasing. The total number of private forest holdings increased substantially, mainly between 1990 and 2000.
 - Main driving force behind changes in ownership structure:- privatisation and restitution of forest land.
- Global FRA Table T2
 - 43% public ownership in US and 92% in Canada.
 - European figures as in SoEF.



Social – Employment in SoEF

- SoEF 6.5 Forest sector workforce
 - Around 20% in forestry, around 50% in wood processing, almost 30% in paper manufacture
 - Forestry employment decreasing, mainly through mechanisation of forest operations.
 - 25% aged 50 years and older.
 - 25% female
- Global FRA – see next slide



Social – Employment and education in FRA

Global FRA

T13 Employment (thousand FTE)

- Primary production: Europe 1113, US/Canada 230
- Management of protected areas: Europe 126, US 9

T15b Human resources in public institutions, 2008

- Europe: 81,000, <18% female, 19% with degree
- US: 30,000, 38% female, 59% with degree

Table T16 Students graduating, 2008

- Europe: 3100 MSc, 3500 BSc
- US: 1000 MSc, 4200 BSc

Table T16 Research professionals, 2008

- Europe: 4500, 33% female, 42% PhD
- US: 1800, 31% female, 38% PhD

(Europe: 22-31 countries excluding Russia, Canada n/a exc primary production)



Social – Health and Safety

- SOEF 6.6 Accidents and diseases
 - Forestry remains a dangerous and accident-prone occupation.
 - Safety and health often stated to be a priority issue in labour related policies in many European countries.
 - Only limited improvements in work safety achieved in last 10 years.
 - Countries with high degree of mechanisation of harvesting operations have fewer accidents.



Social – Recreation

- SOEF 6.10 Accessibility for recreation
 - At least 90% of forest and wooded land area has access available to the public for recreational purposes.
 - 10% or less of area has recreational use as a main management goal.
 - Both measures showed some increase over the period since 1990.
 - Few countries had comprehensive information on numbers of visits.



Social – Cultural and Spiritual Values

- SOEF 6.11 Cultural & spiritual values
 - Around one million sites with cultural and spiritual values recorded within forests and other wooded land.
 - Around three-quarters classed as ‘Cultural heritage’.
 - More countries able to provide data on at least one category of site.

