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Towards FRA 2010 – some selected topics

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Forest Resources Assessments (FRA)

- > Conducted by FAO
- > Carried out since 1946
- > 5-10 years intervals (currently 5 years)
- > Data are reported by a national correspondent in each country
- > Data are used for the preparation of "State of the World's Forests" etc.
- > Deadline for ongoing reporting: March 2009
- > Resembles MCPFE reporting, but is not equal



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- > 7 thematic elements:
 - > Extent of forest resources and their contribution to the global carbon cycle
 - > Forest health and vitality
 - > Forest biological diversity
 - > Productive functions of forests
 - > Protective functions of forests
 - > Socio-economic functions of forests
 - > Legal, policy and institutional framework related to forests
- > Reference years: 1990, 2000, 2005, 2010



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- > Norwegian reports:
 - > Mainland Norway
 - > Svalbard and Jan Mayen Islands
- > Svalbard and Jan Mayen Islands
 - > Total area 6.140.000 ha
 - > Woody vegetation is limited to species such as dwarf birch (*Betula nana*), polar willow (*Salix polaris*) and snowbed willow (*Salix herbacea*). Woody formations are never big enough or tall enough to be considered forest or other wooded land.



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- > Recent changes of the NFI:
 - > More careful updating of plots previously classified as non-forest
 - > Inventory started in Finnmark County
 - > Inventory in mountain forests
 - > Assessment of small trees (<5 cm dbh)
 - > Direct assessment of forest according to international definition
- > A number of permanent sample plots were not yet established in 1990, or assigned to a different area category
- > Future solution: Try to assess the situation in 1990 and intermediate years based on data from 2005-2009
- > Problem: Data for 2008-2009 are still missing, too short time to develop the methodology

Table T1- Extent of Forest and Other wooded land



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FRA 2010 categories	Area (1000 hectares)			
	1990	2000	2005	2010
Forest	9130	9301	9683	10065
Other wooded land	2870	2699	2701	2703
Other land	18427	18427	18043	17659
...of which with tree cover	n.a.	n.a.	n.a.	n.a.
Inland water bodies	1953	1953	1953	1953
Total for country	32380	32380	32380	32380

Table T1- Extent of Forest and Other wooded land



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- > Data sources:
 - > Total forest and other wooded land: Norwegian Mapping Authority
 - > Inland water: Norwegian Mapping Authority
 - > Forest: NFI; for Finnmark County the Census of Agriculture and Forestry 1989
- > New data for 2005 will replace the previously reported forecasted data
- > Forecasts for 2010 (extrapolation 2000-2005)

Table T3-Forest designation and management (primary designated function)



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FRA 2010 Categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Production	5558	5788	5894	6000
Protection of soil and water	2585	2590	2681	2772
Conservation of biodiversity	78	121	156	191
Social services	0	0	0	0
Multiple use	909	802	952	1102
Other (please specify in comments below the table)	0	0	0	0
No / unknown	0	0	0	0
TOTAL	9130	9301	9683	10065

Table T3-Forest designation and management (primary designated function)



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> Definitions:

- > Production: Productive forest with no specific restrictions; Military training fields
- > Protection of soil and water: Forest officially declared as protection forest
- > Conservation of biodiversity: Forest officially declared as protected area (nature reserve, national park)
- > Multiple purpose: Non-productive forest with no specific restrictions; Forest in landscape protected areas; Peri-urban forest areas

Table T3-Forest designation and management (special designation and management categories)



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FRA 2010 Categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Area of permanent forest estate	254	254	254	254
Forest area within protected areas	78	121	156	191
Forest area under sustainable forest management	n.a.	n.a.	9683	10065
Forest area with management plan	4768	5499	5538	5577

Table T3-Forest designation and management (special designation and management categories)



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> Definitions:

- > Area of permanent forest estate: Peri-urban forest areas and forest in landscape protected areas
- > Forest area within protected areas: As reported under "Conservation of biodiversity"
- > Forest area under sustainable forest management: All forests from 2005 on (A new, more restrictive Forest Act was approved 2005, implemented 1.01.2006). The new Forest Act requires the forest owners to know the environmental values of their forests, and to take them into account for all forest management

Table T4-Forest characteristics



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FRA 2010 Categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Primary forest	223	223	223	223
Other naturally regenerating forest	7818	7753	8058	8363
...of which of introduced species	0	0	0	0
Planted forest	1089	1325	1402	1479
...of which of introduced species	222	255	258	261
TOTAL	9130	9301	9683	10065

Table T4-Forest characteristics



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> Definitions:

- > Primary forest: "Forest undisturbed by man" as assessed by the NFI 2005-2007. The same area has been reported for all reference years.
- > Planted forest: Area of planted forest, as reported for the "Questionnaire on planted forest", supplement to FRA 2005. (Based on statistics of planted forest from the Ministry of Agriculture and Food).
- > ...of which of introduced species: Area of introduced species (NFI)
- > Other naturally regenerating forest: Difference between total forest area and primary + planted forest

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> Further work:

- > Table T1, T3, T4 and T6 should be submitted as soon as possible
- > The rest of the tables should preferably be completed by the end of the year
- > Study based on remote sensing will be carried out
- > Information from a number of institutions will be used, primarily Statistics Norway



Foto: Oskar Puschmann,
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