

**Comparative table of indicators**  
**Improved list from Vienna 2003 vs Updated list Madrid 2015**

Indicator as in Vienna 2003	Updated indicator as in Madrid 2015
<b>A. Overall policies, institutions and instruments for sustainable forest management</b>	<b>Forest policy and governance</b>
A.1 National forest programmes or similar	1. National Forest Programmes or equivalent
A.2 Institutional frameworks	2. Institutional frameworks
A.3 Legal/regulatory frameworks and international commitments	3. Legal/regulatory framework: National (and/or sub-national) and International commitments
A.4 Financial instruments/economic policy	4. Financial and economic instruments
A.5 Informational means	5. Information and communication

Indicator as in Vienna 2003		Updated indicator as in Madrid 2015	
Indicator No. and Name	Full text	Indicator No. and Name	Full text
<b>CRITERION 1</b>	<b>Maintenance and Appropriate Enhancement of Forest Resources and their Contribution to Global Carbon Cycles</b>		
		C.1 Policies, institutions and instruments to maintain and appropriately enhance forest resources and their contribution to global carbon cycles	
1.1 Forest area	Area of forest and other wooded land, classified by forest type and by availability for wood supply, and share of forest and other wooded land in total land area	1.1 Forest area	Area of forest and other wooded land, classified by forest type and by availability for wood supply, and share of forest and other wooded land in total land area
1.2 Growing stock	Growing stock on forest and other wooded land, classified by forest type and by availability for wood supply	1.2 Growing stock	Growing stock on forest and other wooded land, classified by forest type and by availability for wood supply

Indicator as in Vienna 2003		Updated indicator as in Madrid 2015	
Indicator No. and Name	Full text	Indicator No. and Name	Full text
1.3 Age structure and/or diameter distribution	Age structure and/or diameter distribution of forest and other wooded land, classified by forest type and by availability for wood supply	1.3 Age structure and/or diameter distribution	Age structure and/or diameter distribution of forest and other wooded land, classified by availability for wood supply
1.4 Carbon stocks	Carbon stock of woody biomass and of soils on forest and other wooded land	1.4 Forest carbon	Carbon stock and carbon stock changes in forest biomass, forest soils and in harvested wood products
<b>CRITERION 2</b>	<b>Maintenance of Forest Ecosystem Health and Vitality</b>		
		C.2 Policies, institutions and instruments to maintain forest ecosystem health and vitality	
2.1 Deposition of air pollutant	Deposition of air pollutants on forest and other wooded land, classified by N, S and base cations	2.1 Deposition and concentration of air pollutant	Deposition and concentration of air pollutants on forest and other wooded land
2.2 Soil condition	Chemical soil properties (pH, CEC, C/N, organic C, base saturation) on forest and other wooded land related to soil acidity and eutrophication, classified by main soil types	2.2 Soil condition	Chemical soil properties (pH, CEC, C/N, organic C, base saturation) on forest and other wooded land related to soil acidity and eutrophication, classified by main soil types
2.3 Defoliation	Defoliation of one or more main tree species on forest and other wooded land in each of the defoliation classes "moderate", "severe" and "dead"	2.3 Defoliation	Defoliation of one or more main tree species on forest and other wooded land in each of the defoliation classes
2.4 Forest damage	Forest and other wooded land with damage, classified by primary damaging agent (abiotic, biotic and human induced) and by forest type	2.4 Forest damage	Forest and other wooded land with damage, classified by primary damaging agent (abiotic, biotic and human induced)
		2.5 Forest land degradation	Trends in forest land degradation
<b>CRITERION 3</b>	<b>Maintenance and Encouragement of Productive Functions of Forests (Wood and Non-Wood)</b>		
		C.3 Policies, institutions and instruments to maintain and encourage the productive functions of forests	

Indicator as in Vienna 2003		Updated indicator as in Madrid 2015	
Indicator No. and Name	Full text	Indicator No. and Name	Full text
3.1 Increment and fellings	Balance between net annual increment and annual fellings of wood on forest available for wood supply	3.1 Increment and fellings	Balance between net annual increment and annual fellings of wood on forest available for wood supply
3.2 Roundwood	Value and quantity of marketed roundwood	3.2 Roundwood	Quantity and market value of roundwood
3.3 Non-wood goods	Value and quantity of marketed non-wood goods from forest and other wooded land	3.3 Non-wood goods	Quantity and market value of non-wood goods from forest and other wooded land
3.4 Services	Value of marketed services on forest and other wooded land	3.4 Services	Value of marketed services on forest and other wooded land
3.5 Forests under management plan	Proportion of forest and other wooded land under a management plan or equivalent	-	-
<b>CRITERION 4</b>	<b>Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems</b>		
	C.4 Policies, institutions and instruments to maintain, conserve and appropriately enhance the biological diversity in forest ecosystem		
4.1 Tree species composition	Area of forest and other wooded land, classified by number of tree species occurring and by forest type	4.1 Diversity of tree species	Area of forest and other wooded land, classified by number of tree species occurring
4.2 Regeneration	Area of regeneration within even-aged stands and uneven-aged stands, classified by regeneration type	4.2 Regeneration	Total forest area by stand origin and area of annual forest regeneration and expansion
4.3 Naturalness	Area of forest and other wooded land, classified by "undisturbed by man", by "semi-natural" or by "plantations", each by forest type	4.3 Naturalness	Area of forest and other wooded land by class of naturalness
4.4 Introduced tree species	Area of forest and other wooded land dominated by introduced tree species	4.4 Introduced tree species	Area of forest and other wooded land dominated by introduced tree species
4.5 Deadwood	Volume of standing deadwood and of lying deadwood on forest and other wooded land classified by forest type	4.5 Deadwood	Volume of standing deadwood and of lying deadwood on forest and other wooded land

Indicator as in Vienna 2003		Updated indicator as in Madrid 2015	
Indicator No. and Name	Full text	Indicator No. and Name	Full text
4.6 Genetic resources	Area managed for conservation and utilisation of forest tree genetic resources (in situ and ex situ gene conservation) and area managed for seed production	4.6 Genetic resources	Area managed for conservation and utilisation of forest tree genetic resources (in situ and ex situ genetic conservation) and area managed for seed production
4.7 Landscape pattern	Landscape-level spatial pattern of forest cover	4.7 Forest fragmentation	Area of continuous forest and of patches of forest separated by non-forest lands
4.8 Threatened forest species	Number of threatened forest species, classified according to IUCN Red List categories in relation to total number of forest species	4.8 Threatened forest species	Number of threatened forest species, classified according to IUCN Red List categories in relation to total number of forest species
4.9 Protected forests	Area of forest and other wooded land protected to conserve biodiversity, landscapes and specific natural elements, according to MCPFE Assessment Guidelines	4.9 Protected forests	Area of forest and other wooded land protected to conserve biodiversity, landscapes and specific natural elements, according to MCPFE categories
		4.10 Common forest bird species	Occurrence of common breeding bird species related to forest ecosystems
<b>CRITERION 5</b>	<b>Maintenance and Appropriate Enhancement of Protective Functions in Forest Management (notably soil and water)</b>		
		C.5 Policies, institutions and instruments to maintain and appropriately enhance of the protective functions in forest management	
5.1 Protective forests – soil, water and other ecosystem functions	Area of forest and other wooded land designated to prevent soil erosion, to preserve water resources, or to maintain other forest ecosystem functions, part of MCPFE Class “Protective Functions”	5.1 Protective forests – soil, water and other ecosystem functions - infrastructure and managed natural resources	Area of forest and other wooded land designated to prevent soil erosion, preserve water resources, maintain other protective functions, protect infrastructure and managed natural resources against natural hazards
5.2 Protective forests – infrastructure and managed natural resources	Area of forest and other wooded land designated to protect infrastructure and managed natural resources against natural hazards, part of MCPFE Class “Protective Functions”	-	

Indicator as in Vienna 2003		Updated indicator as in Madrid 2015	
Indicator No. and Name	Full text	Indicator No. and Name	Full text
<b>CRITERION 6</b>	<b>Maintenance of other socioeconomic functions and conditions</b>		
		C.6 Policies, institutions and instruments to maintain other socioeconomic functions and conditions	
6.1 Forest holdings	Number of forest holdings, classified by ownership categories and size classes	6.1 Forest holdings	Number of forest holdings, classified by ownership categories and size classes
6.2 Contribution of forest sector to GDP	Contribution of forestry and manufacturing of wood and paper products to gross domestic product	6.2 Contribution of forest sector to GDP	Contribution of forestry and manufacturing of wood and paper products to gross domestic product
6.3 Net revenue	Net revenue of forest enterprises	6.3 Net revenue	Net revenue of forest enterprises
6.4 Expenditures for services	Total expenditures for long-term sustainable services from forests	6.4 Investments in forests and forestry	Total public and private investments in forests and forestry
6.5 Forest sector workforce	Number of persons employed and labour input in the forest sector, classified by gender and age group, education and job characteristics	6.5 Forest sector workforce	Number of persons employed and labour input in the forest sector, classified by gender and age group, education and job characteristics
6.6 Occupational safety and health	Frequency of occupational accidents and occupational diseases in forestry	6.6 Occupational safety and health	Frequency of occupational accidents and occupational diseases in forestry
6.7 Wood consumption	Consumption per head of wood and products derived from wood	6.7 Wood consumption	Consumption per head of wood and products derived from wood
6.8 Trade in wood	Imports and exports of wood and products derived from wood	6.8 Trade in wood	Imports and exports of wood and products derived from wood
6.9 Energy from wood resources	Share of wood energy in total energy consumption, classified by origin of wood	6.9 Wood energy	Share of wood energy in total primary energy supply, classified by origin of wood
6.10 Accessibility for recreation	Area of forest and other wooded land where public has a right of access for recreational purposes and indication of intensity of use	6.10 Recreation in forests	The use of forests and other wooded land for recreation in terms of right of access, provision of facilities and intensity of use

Indicator as in Vienna 2003		Updated indicator as in Madrid 2015	
Indicator No. and Name	Full text	Indicator No. and Name	Full text
6.11 Cultural and spiritual values	Number of sites within forest and other wooded land designated as having cultural or spiritual values	-	