

Preliminary set of Criteria and Indicators for Sustainable Forest Management for Armenia

As of February 2019

Thematic Elements	Indicators
1. FOREST AREA	1.1 Extent of forest and other wooded land share of forest and other wooded land in total land area 1.2 Extent and percentage of forest cover under comprehensive FM plans, 1.3 Extent of forests committed to protection, special meaning and production 1.4 Increase or decrease of forest area, with the reason 1.5 Forest ownership or tenure, area of forest under each ownership category 1.6 Percentage of crown cover per forest district and forest enterprise 1.7 Growing stock in forest and other wooded land and its trends 1.8 Age structure and/or diameter distribution of forest and other wooded land 1.9 Forest carbon balance and change per forest types, and age class 1.10 Area and species composition of forests
2. BIODIVERSITY	2.1 Area of forest classified by number of tree species occurring 2.2 Extent of high conservation value forests 2.3 Species diversity (number of species) 2.4 Extent of natural and artificial regeneration in forests 2.5 Percentage of endemic species 2.6 Number of threatened forest species, classified according to IUCN National Red List categories in relation to total number of forest species 2.7 Fragmentation of forests 2.8 Extent of representation of forest types in protected areas 2.9 Forest area within protected areas 2.10 Buffer zone management and connectivity of protected forest areas
3. FOREST HEALTH	3.1 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 3.2 Forest area damaged by: forest fire, insects, pests, diseases, wood harvesting, climate change (forest health and vigor) 3.3 Threats to forests caused directly by human activities (loggings, fires, use of secondary forest products, mining, other economic activities without Environmental Impact Assessment) 3.4 Area of degraded forests 3.5 Area of reforestation and afforestation
4. Productive functions of forest resources	4.1 <i>[potential indicators under this criterion are to be discussed at the workshop]</i>
5. PROTECTION FUNCTIONS	5.1 Area and percent of forest whose designation or land management focus is the protection of soil or water resources 5.2 Area of forest protected for water harvesting 5.3 Extent of forest cover in the watershed
6. Socio-economic functions of forest resources	6.1 Productivity index 6.2 Production, import and export of wood product 6.3 Net revenue of forest enterprises 6.4 Total public and private investments in forests and forestry

	<p>6.5 Number of persons employed and labor input in the forest sector, classified by gender and age group, education and job characteristics</p> <p>6.6 Capacity building of the workforce in forest management and forest industry</p> <p>6.7 Average income of main (jobs) working groups in the forest sector</p> <p>6.8 Areas and percent of forests used for subsistence purposes</p> <p>6.9 Occupational accidents and occupational diseases in forestry</p> <p>6.10 Consumption per head of wood and products derived from wood</p> <p>6.11 Total and per capita consumption of all marketed non-wood forest products</p> <p>6.12 Area and percentage of forest which is managed for public recreation and tourisms</p> <p>6.13 Forests area used for specific cultural, research or educational values</p> <p>6.14 Education and training gained by forest related communities</p> <p>6.15 Domestic forest management certification</p>
<p>7. Legal, policy and institutional framework</p>	<p>7.1 Presence of National forest programs</p> <p>7.2 Programmes, services and other resources supporting the sustainable management of forests</p> <p>7.3 Integration of forest management needs into national-level policy planning</p> <p>7.4 Number of new and updated standards and guidelines of forest management related to the ecologic subjects</p> <p>7.5 Presence of Forest management plan and monitoring plan</p> <p>7.6 Long-term projections, strategies and plans for production permanent forest estates (PFE) and protection PFE 2030-2050</p> <p>7.7 Share of relevant forestry specialists in terms of impact on decision making in the organizational structure</p> <p>7.8 Number of institutions responsible for management and supporting the management of forests and their effectiveness in the ball system</p> <p>7.9 Legislation and regulations supporting SFM</p> <p>7.10 Presence of a system of performance and reporting on international obligations</p> <p>7.11 Evaluation of political activities and decisions for sustainable management forests by the citizens of the RA (by ball system)</p> <p>7.12 Tracking the execution of laws, normative legal acts and management rules related to SFM and land use</p> <p>7.13 National, subnational and international public and private funding committed to SFM</p> <p>7.14 Mechanisms for the equitable sharing of the costs and benefits of forest management</p> <p>7.15 Taxation and other economic strategies that affect the sustainable management of forests</p> <p>7.16 Effective, comprehensive, accessible, reliable, controlled portal for all stakeholders</p> <p>7.17 Availability of a monitoring, reporting and verification (MRV) system in SFM</p> <p>7.18 Number of developed implemented and transferred technologies in SFM and land use</p> <p>7.19 Partnerships to support the sustainable management of forests (quantity)</p> <p>7.20 Compliance with procedures for involving the public in the processes of developing politic, decision-making, operational management and protecting the rights of local people in SFM</p> <p>7.21 Percentage of forest area which designed (programmed), managed and implemented by stakeholder participation</p> <p>7.22 Policies supporting SFM</p> <p>7.23 Policies, institutions and instruments to maintain and appropriately enhance forest resources and their contribution to global carbon cycles</p> <p>7.24 The existence of legislation on property issues in accordance with the Constitutional Right to Forests</p>

	7.25 Presence of land and forest property certificates
	7.26 Royalties (concessions) of local people in wood production industries
	7.27 Systems for assessing the resources of forest products
	7.28 The amount of accumulated organic carbon as a result of forest management
	7.29 Forestry research projects and percentage of covered areas
	7.30 Availability of biennial reports on greenhouse gas inventories on a regional basis
	7.31 Extension and usage of improved suitable new technology