

# Criterion 6

## Maintenance and Enhancement of Long-Term Multiple Socioeconomic Benefits To Meet the Needs of Societies

### What is this criterion and why is it important?

Although the first five criteria are centered in the environmental sphere of sustainability (with the exception of Criterion 2, which clearly overlaps the economic sphere), Criterion 6 is centered firmly in the economic sphere. As the sole criterion with an economic focus, it has more (20) indicators than any of the environmental criteria. Its first two subcategories reflect the basic economic breakdown of goods (e.g., wood products) and services (e.g., tourism). The investment subcategory provides indicators of society's attention to forest maintenance. The cultural subcategory includes the most social of the socioeconomic indicators, and the employment subcategory provides indicators of the forests' capacity to provide work, wages, and subsistence.

### What has changed since 2003?

*The data*—Significant data changes have occurred since 2003, including (1) addition of new indicators with new data, particularly on environmental services, distribution of revenue, resilience of communities and importance of forests, (2) expansion of time trends related mostly to forest products and nonwood products, and (3) expansion of data on regional differences in amounts and trends for more indicators, including forest products, nonwood products, and recreation. Coverage for some data has changed because one time studies done for 2003 were not repeated the same way, for example updates of employment in forest based recreation in tourism for 2010 are for more limited categories of employment.

*The indicators*—The following table summarizes the revisions. Indicator reference numbers for 2003 and 2010 are provided to assist in comparisons with the previous report. A more detailed rationale for the revisions may be found at [http://www.rinya.maff.go.jp/mpci/meetings/18\\_e.htm](http://www.rinya.maff.go.jp/mpci/meetings/18_e.htm).

**Criterion 6.** Maintenance and enhancement of long-term multiple socioeconomic benefits to meet the needs of societies (1 of 2).

2003 Reference	2003 Indicator	Revision Action	2010 Reference	2010 Indicator
<b>Production and Consumption</b>				
29	Value and volume of wood and wood products production, including value added through downstream processing	Improve wording, restrict value added to secondary products	6.25	Value and volume of wood and wood products production, including primary and secondary processing
30	Value and quantities of production of nonwood forest products	Improve wording	6.26	Value of nonwood forest products produced or collected
			6.27	Revenue from forest-based environmental services
31	Supply and consumption of wood and wood products, including consumption per capita	Improve wording	6.28	Total and per capita consumption of wood and wood products in roundwood equivalents
32	Value of wood and nonwood products production as a percentage of GDP	DELETE		
34	Supply and consumption/use of nonwood products	Improve wording	6.29	Total and per capita consumption of nonwood forest products
		NEW	6.30	Value and volume in roundwood equivalents of exports and imports of wood products

**Criterion 6.** Maintenance and enhancement of long-term multiple socioeconomic benefits to meet the needs of societies (2 of 2).

2003 Reference	2003 Indicator	Revision Action	2010 Reference	2010 Indicator
		NEW	6.31	Value of exports and imports of nonwood products
		NEW	6.32	Exports as a share of wood and wood products production and imports as a share of wood and wood products consumption
33	Degree of recycling of forest products	Include percent of total consumption	6.33	Recovery or recycling of forest products as a percent of total forest products consumption
<b>Investment in the Forest Sector</b>				
38	Value of investment, including investment in forest growing, forest health management, planted forests, wood processing, recreation, and tourism	Include annual expenditure	6.34	Value of capital investment and annual expenditure in forest management, wood and nonwood product industries, forest-based environmental services, recreation, and tourism
39	Level of expenditure on research and development and on education	Confine to "forest-related" only	6.35	Annual investment and expenditure in forest-related research, extension and development, and education
40	Extension and use of new and improved technologies	DELETE		
41	Rates of return on investment	DELETE		
	Employment and community needs			
44	Direct and indirect employment in the forest sector and the forest sector employment as a proportion of total employment	Improve wording	6.36	Employment in the forest products sector
45	Average wage rates and injury rates in major employment categories within the forest sector	Restrict to forest sector	6.37	Average wage rates, annual average income, and annual injury rates in major forest employment categories
46	The viability and adaptability to changing economic conditions of forest-dependent communities, including indigenous communities	Broaden context	6.38	The resilience of forest-dependent communities
47	Area and percent of forest land used for subsistence purposes	No change	6.39	Area and percent of forests used for subsistence purposes
			6.40	Distribution of revenues derived from forest management
<b>Recreation and Tourism</b>				
35	Area and percent of forest land managed for general recreation and tourism in relation to the total area of forest land	Improve wording	6.41	Area and percent of forests available and managed for public recreation and tourism
36	Number and type of facilities available for general recreation and tourism in relation to population and forest area	Merge to new 6.42		
37	Number of visitor days attributed to recreation and tourism in relation to population and forest area	Merge with above to new 6.42	6.42	Number, type, and geographic distribution of visits attributed to recreation and tourism and related to facilities available
	Cultural, social, and spiritual needs and values			
42	Area and percent of forest land managed in relation to the total area of forest land to protect the range of cultural, social, and spiritual needs and values	Improve wording	6.43	Area and percent of forests managed primarily to protect the range of cultural, social, and spiritual needs and values
43	Nonconsumptive use forest values	DELETE		
		NEW	6.44	The importance of forests to people