Article 3.4 Country specific data	Accounting framework	a <sub>l</sub> (ha) (× 1,000)	CO <sub>2</sub> , , (t CO <sub>2</sub> )* Total over 6yrs('90-'95)	CH₄,₁(t CO₂ equiv.)* <sup>§</sup>	N₂O, լ(t CO₂ equiv.)* <sup>§</sup>	a <sub>⊪</sub> (ha) (× 1,000)	CO <sub>2</sub> , <sub>II</sub> (t CO <sub>2</sub> )* Total over 10 yrs('90-'99)	CH₄, ⊫(t CO₂ equiv.)* <sup>§</sup>	N <sub>2</sub> O, <sub>II</sub> (t CO <sub>2</sub> equiv.)* <sup>§</sup>	a <sub>cp</sub> (ha) (× 1,000)	C <sub>cp</sub> (t C) Total over 5 yrs (2008-2012)	CO <sub>2</sub> , <sub>cp</sub> (t CO <sub>2</sub> )* Total over 5 yrs (2008-2012)	CH₄, <sub>cp</sub> (t CO₂ equiv.)* <sup>§</sup>	N2O, cp (t CO2 equiv.)* <sup>§</sup>	Methods and approaches	Data sources, data quality, and uncertainties (e.g. ranges)	Other information relevant to decision- making
Forest Management etc.: (All Forests)	Activity based	25,146,000	457,512,000	NE(See Text)	NE(See Text)	25,197,000	740,564,000	NE(See Text)	NE(See Text)	25,220,000	56,840,000	208,415,000	NE(See Text)	NE(See Text)	accounted for in carbon stocks.	Estimated sequestration based on growth in Managed Forest where additional human-induced activities take place. Current status based on Forestry Statistics, and forecast based on Basic Plan on Forest Resources.	
(Managed Forests)	Activity based	8,084,000	135,792,000	NE(See Text)	NE(See Text)	8,657,000	233,156,000	NE(See Text)	NE(See Text)	12,450,000	48,948,000	179,475,000	NE(See Text)	NE(See Text)			
Urban Greening etc.	Land based														Broadly-defined activity.     Estimated with the Activity- based accounting approach.     Estimated biomass weight data	Used historical data and future perspectives for planted trees based on the "Survey of Preparation for the 5 year Greenery Promotion Plan" and	
	Activity based	15,050	165,701	NE	NE	38,050	698,218	NE	NE	83,050	377,750	1,386,343	NE	NE	of the trees planted in the parks, etc. that were planted artificially.	"Green Plan 2000".	

Table III - Preliminary data and information provided by Annex I Party on Article 3.4 activities, related net GHG emissions, involved areas, and projected carbon stock changes (additional activities under Article 3.4)

Note 1) : All data are preliminary. NE: Not Estimated

2) : ai, aii, and acp for urban greening and other such activities shows the number of planted trees per year (× 1,000)

\* These columns would contain the sum over the years concerned of net annual emissions by sources and removals by sinks for the Article 3.4 activities proposed.

A negative sign indicates either emissions by sources or a decrease in carbon stocks. A positive sign indicates either removals by sinks or an increase in carbon stocks.

To convert a carbon amount to CO2 multiply it by 3.67.

§ CH<sub>4</sub> and N<sub>2</sub>O emissions are converted to CO<sub>2</sub> equivalent emissions by using the global warming potential (GWP) values of 21 for CH<sub>4</sub> and 310 for N<sub>2</sub>O (Source: Second Assessment Report of the IPCC, 1995)

a<sub>l</sub>: Area (ha) in 1995 or possibly an earlier specific year involved in the Article 3.4 activity since 1990.

CO2, 1: Net CO2 emissions (t CO2) by sources and removals by sinks related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a.

CH4, 1: CH4 emissions (t CO2 equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in al-

N2O, 1: N2O emissions (t CO2 equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a.

a<sub>ll</sub>: Area (ha) in 1999 or possibly an earlier specific year involved in the Article 3.4 activity since 1990.

CO2, 1: Net CO2 emissions (t CO2) by sources and removals by sinks related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a<sub>1</sub>.

CH4, pl: CH4 emissions (t CO2 equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a<sub>1</sub>.

N2O, 1: N2O emissions (t CO2 equivalent) by sources related to the Article 3.4 activity, accumulated from 1990 to the same year as used in a<sub>1</sub>.

**a**<sub>cp</sub>: Projected area (ha) in 2012 involved in the Article 3.4 activity since 1990.

 $\Delta C_{c_p}$ : Projected carbon stock changes (t C) over the first commitment period related to the Article 3.4 activity since 1990  $CO_{2, c_p}$ : Projected net CO2 emissions related contribution (t CO2) of the Article 3.4 activity to the first commitment period assigned amount of the Party

N2O, cp: Projected N2O emissions related contribution (t CO2 equivalent) of the Article 3.4 activity to the first commitment period assigned amount of the Party.

EXPLANATORY TEXT (table III)
I. Forest Management etc.
1. Activities and accounting
a) Definitions and descriptions of all activities proposed.
Forest Management : Activities to establish healthy and vital forests, in order to develop and enhance various functions of forests comprehensively, and to
assure national land conservation, prevent disasters and provide a comfortable environment.
More specifically, the activities include plantation, regeneration assisting practices such as surface scarification and brush cutting, weeding, clean-cutting
among others.
b) Scope of activities and how they fit into broader managed land categories.
Forest Management includes a broad range of forestry operations implemented in the forest area.
c) Accounting approaches
The activity-based accounting approach is applied for estimation and, as with Article 3.3, carbon pools of above- and below-ground biomass other than understory vegetation, litter, humus and soil carbon, are considered.
Sequestration is estimated based on growth of the Managed Forest in the assessment period and, as with carbon stocks from the activities under
Article 3.3, above- and below-ground biomass is estimated with standing tree volume, and then sequestration under Article 3.3 and emissions
due to harvest are subtracted.
d) Proposals for key accounting features, e.g. assumptions on baselines, are the basis for the area estimates covered by activity.
Baseline has not been established.
For area and growth of the Managed Forest accounted for in the assessment period, present status is based on Japan's national "Forestry Statistics", and forecasting is
based on Japan's "Basic Plan on Forest Resources."
2. Carbon pools included (e.g. above ground biomass, litter and woody debris, below-ground biomass, soil carbon, and harvested materials).
Same as the explanatory note for Article 3.3, Table I.2.
3. Methodologies and data
a) Data sources
"Forestry Statistics" and "Basic Plan on Forest Resources" are referred to as information on forest resources.
b) Sampling techniques
Complete enumeration has been implemented for the Survey of the Current Status of Forest Resources, which forms the base of estimation for sequestration. c) Models and key parameters
No models or key parameters are used in relation to forest accounting.
d) Uncertainties
Uncertainty is considered relatively low since complete enumeration was implemented for the Survey of the Current Status of Forest Resources, which forms the base
of estimation for sequestration.
4. Treatment of non CO <sub>2</sub> greenhouse gases.
Emissions of greenhouse gases from forests, other than CO2, are not considered except in special cases.
5. Methods and key assumptions in projections for the first commitment period (2008–2012) and discussion, if possible, of trends beyond the first
commitment period.
It would be possible to estimate carbon sequestration beyond the first commitment period, based on the "Basic Plan on Forest Resources", and use the same approach
applied here to estimate carbon sequestration for the first commitment period.
. Urban Greening, etc.
1. Activities and accounting:
a) Definitions and descriptions of all activities proposed.
Activities in planting trees on the urban parks, roads, rivers, etc., sewage-disposal plants, facilities for government and other public offices, public housing, among others.
b) Scope of activities and how they fit into broader managed land categories.
Accounted by the number of planted trees for this estimation. Therefore, it is also applicable in the case of other divisions of land.
c) Accounting approaches.
Use the annual average number of planted trees and the trends from 1991 to 1995 and project the activity data during the commitment period, assuming that
trends will continue uniformly after 2000.
Estimate carbon stocks by multiplying this projected activity data: biomass increase in the wooded land under the IPCC definition (2.0 t/ha); carbon content coefficient (0.5);
surveyed number of planted tree in the urban park (1,000 pieces/ha).
d) Proposals for key accounting features, e.g. assumptions on baselines, basis for the area estimates covered by activity.
Since these activities develop areas of land, to plant trees artificially where there has been previously no greenery, no baseline is used.
This is because it can be regarded as the same activities as "afforestation" under Article.3.3.
2. Carbon pools included (e.g. above ground biomass, litter and woody debris, below-ground biomass, soil carbon, and harvested materials).
Above- and below-ground biomass other than understory vegetation, litter, humus and soil carbon are included in carbon pools.
2. Methodologics and data
3. Methodologies and data
a) Data sources
a) Data sources Historical data and established goals for planted trees based on the "Survey for Preparation of 5 Year Greenery Promotion Plan" and "Green Plan 2000."
<ul> <li>a) Data sources</li> <li>Historical data and established goals for planted trees based on the "Survey for Preparation of 5 Year Greenery Promotion Plan" and "Green Plan 2000."</li> <li>b) Sampling techniques</li> </ul>
<ul> <li>a) Data sources</li> <li>Historical data and established goals for planted trees based on the "Survey for Preparation of 5 Year Greenery Promotion Plan" and "Green Plan 2000."</li> <li>b) Sampling techniques</li> <li>Surveys of current status of urban parks which form green zones in urban planning, that are the basis of the activity data, have been implemented.</li> </ul>
<ul> <li>a) Data sources</li> <li>Historical data and established goals for planted trees based on the "Survey for Preparation of 5 Year Greenery Promotion Plan" and "Green Plan 2000."</li> <li>b) Sampling techniques</li> </ul>

Uncertainty is low for the surveys of the current status of urban parks which form the basis of the activity data since complete enumeration has been implemented.

4. Treatment of non CO<sub>2</sub> greenhouse gases.

No corresponding section.

5. Methods and key assumptions in projections for the first commitment period (2008–2012) and discussion, if possible, of trends beyond the first commitment period.

Can estimate area and carbon stocks at times subsequent to those of the first commitment period with the trend of historical data used in this estimation.