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Convención Marco sobre el Cambio Climático

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ÓRGANO SUBSIDIARIO DE ASESORAMIENTO CIENTÍFICO Y TECNOLÓGICO

**27º período de sesiones
Bali, 3 a 11 diciembre de 2007**

**Tema 9 d) del programa
Cuestiones metodológicas relacionadas con el Protocolo de Kyoto
Orientación sobre las buenas prácticas en relación con las
actividades de uso de la tierra, cambio de uso de la
tierra y silvicultura previstas en los párrafos 3 y 4
del artículo 3 del Protocolo de Kyoto**

Orientación sobre las buenas prácticas en relación con las actividades de uso de la tierra, cambio de uso de la tierra y silvicultura previstas en los párrafos 3 y 4 del artículo 3 del Protocolo de Kyoto

Proyecto de conclusiones propuesto por la Presidencia

Adición

Recomendación del Órgano Subsidiario de Asesoramiento Científico y Tecnológico

En su 27º período de sesiones, el Órgano Subsidiario de Asesoramiento Científico y Tecnológico decidió recomendar el siguiente proyecto de decisión para que lo aprobase la Conferencia de las Partes en calidad de reunión de las Partes en el Protocolo de Kyoto en su tercer período de sesiones:

Proyecto de decisión -/CMP.3

Orientación sobre las buenas prácticas en relación con las actividades de uso de la tierra, cambio de uso de la tierra y silvicultura previstas en los párrafos 3 y 4 del artículo 3 del Protocolo de Kyoto

La Conferencia de las Partes en calidad de reunión de las Partes en el Protocolo de Kyoto,

Recordando los párrafos 3 y 4 del artículo 3, el párrafo 2 del artículo 5, el artículo 6 y el párrafo 1 del artículo 7 del Protocolo de Kyoto,

Recordando además las decisiones 13/CMP.1, 15/CMP.1, 16/CMP.1 y 17/ CMP.1,

Habiendo examinado las recomendaciones pertinentes del Órgano Subsidiario de Asesoramiento Científico y Tecnológico,

1. *Decide* que para presentar información suplementaria a la del inventario anual de los gases de efecto invernadero en el primer período de compromiso las Partes, además de los elementos especificados en los párrafos 5 a 9 del anexo de la decisión 15/CMP.1, utilicen cuadros que incluyan en un anexo al inventario nacional, y que utilicen los cuadros del formulario común para los informes¹ con el fin de suministrar la información que deben presentar en 2010 y después de esa fecha sobre las emisiones antropógenas por las fuentes y la absorción antropógena por los sumideros de los gases de efecto invernadero relacionadas con las actividades de uso de la tierra, cambio de uso de la tierra y silvicultura previstas en el párrafo 3 del artículo 3 y, en su caso, las actividades elegidas con arreglo al párrafo 4 del artículo 3, de conformidad con el párrafo 2 del artículo 5 del Protocolo de Kyoto; estos cuadros figuran en el anexo de la presente decisión;

2. *Pide* a la secretaría que, si se dispone de fondos suplementarios, desarrolle para esos cuadros un módulo del programa informático de presentación de informes en el formulario común.

¹ El formulario común para los informes es un formulario estandarizado que deben utilizar las Partes para la comunicación electrónica de las estimaciones de las emisiones y la absorción de gases de efecto invernadero y otros datos conexos. Por razones técnicas (como el tamaño de los cuadros o la letra) en este documento no es posible estandarizar la versión impresa de los cuadros del formulario común para los informes correspondientes a las actividades de uso de la tierra, cambio de uso de la tierra y silvicultura.

Annex

TABLE NIR 1. SUMMARY TABLE

Activity coverage and other information relating to activities under Article 3.3 and elected activities under Article 3.4

| Activity | | Change in carbon pool reported ⁽¹⁾ | | | | | Greenhouse gas sources reported ⁽²⁾ | | | | | | | |
|------------------------|---------------------------------|---|----------------------|--------|-----------|------|--|---|--|-----------------|--------------------------------|-----------------|------------------|--|
| | | Above-ground biomass | Below-ground biomass | Litter | Dead wood | Soil | Fertilization ⁽³⁾ | Drainage of soils under forest management | Disturbance associated with land-use conversion to croplands | Liming | Biomass burning ⁽⁴⁾ | | | |
| | | | | | | | N ₂ O | N ₂ O | N ₂ O | CO ₂ | CO ₂ | CH ₄ | N ₂ O | |
| Article 3.3 activities | Afforestation and Reforestation | | | | | | | | | | | | | |
| | Deforestation | | | | | | | | | | | | | |
| Article 3.4 activities | Forest Management | | | | | | | | | | | | | |
| | Cropland Management | | | | | | | | | | | | | |
| | Grazing Land Management | | | | | | | | | | | | | |
| | Revegetation | | | | | | | | | | | | | |

⁽¹⁾ Indicate R (reported), NR (not reported), IE (included elsewhere) or NO (not occurring), for each relevant activity under Article 3.3 or elected activity under Article 3.4. If changes in a carbon pool are not reported, it must be demonstrated in the NIR that this pool is not a net source of greenhouse gases. Indicate NA (not applicable) for each activity that is not elected under Article 3.4. Explanation about the use of notation keys should be provided in the text.

⁽²⁾ Indicate R (reported), NE (not estimated), IE (included elsewhere) or NO (not occurring) for greenhouse gas sources reported, for each relevant activity under Article 3.3 or elected activity under Article 3.4. Indicate NA (not applicable) for each activity that is not elected under Article 3.4. Explanation about the use of notation keys should be provided in the text.

⁽³⁾ N₂O emissions from fertilization for Cropland Management, Grazing Land Management and Revegetation should be reported in the Agriculture sector. If a Party is not able to separate fertilizer applied to Forest Land from Agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector.

⁽⁴⁾ If CO₂ emissions from biomass burning are not already included under changes in carbon stocks, they should be reported under biomass burning; this also includes the carbon component of CH₄. Parties that include CO₂ emissions from biomass burning in their carbon stock change estimates should report IE (included elsewhere).

Table NIR 1.1 Additional information

Selection of parameters for defining "Forest" under the Kyoto Protocol

| Parameter | Range | Selected value |
|---------------------|-------------|----------------|
| Minimum land area | 0.05 - 1 ha | |
| Minimum crown cover | 10 - 30 % | |
| Minimum height | 2 - 5 m | |

Table NIR 2. LAND TRANSITION MATRIX
Areas and changes in areas between the previous and the current inventory year ^{(1), (2), (3)}

| To current inventory year From previous inventory year | | Article 3.3 activities | | Article 3.4 activities | | | Other ⁽⁵⁾ | Total area at the beginning of the current inventory year ⁽⁶⁾ |
|---|---|---------------------------------|---------------|--------------------------------|----------------------------------|--------------------------------------|----------------------|--|
| | | Afforestation and reforestation | Deforestation | Forest Management (if elected) | Cropland Management (if elected) | Grazing Land Management (if elected) | | |
| | | (kha) | | | | | | |
| Article 3.3 activities | Afforestation and Reforestation | | | | | | | |
| | Deforestation | | | | | | | |
| Article 3.4 activities | Forest Management (if elected) | | | | | | | |
| | Cropland Management ⁽⁴⁾ (if elected) | | | | | | | |
| | Grazing Land Management ⁽⁴⁾ (if elected) | | | | | | | |
| | Revegetation ⁽⁴⁾ (if elected) | | | | | | | |
| Other ⁽⁵⁾ | | | | | | | | |
| Total area at the end of the current inventory year | | | | | | | | |

⁽¹⁾ This table should be used to report land area and changes in land area subject to the various activities in the inventory year. For each activity it should be used to report area change between the previous year and the current inventory year. For example, the total area of land subject to Forest Management in the year preceding the inventory year, and which was deforested in the inventory year, should be reported in the cell in column B and in the row of Forest Management.

⁽²⁾ Some of the transitions in the matrix are not possible and the cells concerned have been shaded.

⁽³⁾ In accordance with section 4.2.3.2 of the IPCC good practice guidance for LULUCF, the value of the reported area subject to the various activities under Article 3.3 and 3.4 for the inventory year should be that on 31 December of that year.

⁽⁴⁾ Lands subject to Cropland Management, Grazing Land Management or Revegetation which, after 2008, are subject to activities other than those under Article 3.3 and 3.4, should still be tracked and reported under Cropland Management, Grazing Land Management or Revegetation, respectively.

⁽⁵⁾ "Other" includes the total area of the country that has not been reported under an Article 3.3 or an elected Article 3.4 activity.

⁽⁶⁾ The value in the cell of row "Total area at the end of the current inventory year" corresponds to the total land area of a country and is constant for all years.

TABLE NIR 3. SUMMARY OVERVIEW FOR KEY CATEGORIES FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL

| KEY CATEGORIES OF EMISSIONS AND REMOVALS | GAS | CRITERIA USED FOR KEY CATEGORY IDENTIFICATION | | | COMMENTS ⁽³⁾ |
|--|-----------------------|---|--|----------------------|-------------------------|
| | | Associated category in UNFCCC inventory ⁽¹⁾ is key (indicate which category) | Category contribution is greater than the smallest category considered key in the UNFCCC inventory ^{(1),(4)} (including LULUCF) | Other ⁽²⁾ | |
| Specify key categories according to the national level of disaggregation used ⁽¹⁾ | | | | | |
| <i>For example: Cropland Management</i> | <i>CO₂</i> | <i>X (Cropland remaining Cropland)</i> | | | |
| | | | | | |
| | | | | | |
| | | | | | |

⁽¹⁾ See section 5.4 of the IPCC good practice guidance for LULUCF.

⁽²⁾ This should include qualitative consideration as per section 5.4.3 of the IPCC good practice guidance for LULUCF or any other criteria.

⁽³⁾ Describe the criteria identifying the category as key.

⁽⁴⁾ If the emissions or removals of the category exceed the emissions of the smallest category identified as key in the UNFCCC inventory (including LULUCF), Parties should indicate YES. If not, Parties should indicate NO.

TABLE 5(KP) REPORT OF SUPPLEMENTARY INFORMATION FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL ^{(1),(2)}

Country
Year
Submission

| GREENHOUSE GAS SOURCE AND SINK ACTIVITIES | Net CO ₂ emissions/ removals ^{(3), (4)} | CH ₄ ⁽⁵⁾ | N ₂ O ⁽⁶⁾ | Net CO ₂ equivalent emissions/removals |
|--|--|--------------------------------|---------------------------------|--|
| | (Gg) | | | |
| A. Article 3.3 activities | | | | |
| A.1. Afforestation and Reforestation ⁽⁷⁾ | | | | |
| A.1.1. Units of land not harvested since the beginning of the commitment period | | | | |
| A.1.2. Units of land harvested since the beginning of the commitment period | | | | |
| A.2. Deforestation | | | | |
| B. Article 3.4 activities | | | | |
| B.1. Forest Management (if elected) | | | | |
| B.2. Cropland Management (if elected) | | | | |
| B.3. Grazing Land Management (if elected) | | | | |
| B.4. Revegetation (if elected) | | | | |
| Information item: | | | | |
| A.1.2. Units of land harvested since the beginning of the commitment period | | | | |
| <i>[specify identification code]</i> | | | | |
| Documentation box | | | | |
| Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table. | | | | |

- (1) All estimates in this table include emissions and removals from projects under Article 6 hosted by the reporting Party.
- (2) If Cropland Management, Grazing Land Management and/or Revegetation are elected, this table and all relevant CRF tables should also be reported for the base year for these
- (3) According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and by changing the sign for net CO₂ removals to be negative (-) and net CO₂ emissions to be positive (+).
- (4) CO₂ emissions from liming, biomass burning and drained organic soils, where applicable, are included in this column.
- (5) CH₄ emissions reported here for Cropland Management, Grazing Land Management and Revegetation, if elected, include only emissions from biomass burning (with the exception of savannah burning and agricultural residue burning which are reported in the Agriculture sector). Any other CH₄ emissions from Agriculture should be reported in the Agriculture sector.
- (6) N₂O emissions reported here for Cropland Management, if elected, include only emissions from biomass burning (with the exception of savannah burning and agricultural residue burning which are reported in the Agriculture sector) and N₂O emissions from mineral soils from conversion to Cropland of lands other than Forest Land (Table 5(KP-II)3). Any other N₂O emissions from Agriculture should be reported in the Agriculture sector.
- (7) As both Afforestation and Reforestation under Article 3.3 are subject to the same provisions specified in the annex to decision 16/CMP.1, they can be reported together.

TABLE 5(KP-I)A.1.1. SUPPLEMENTARY BACKGROUND DATA ON CARBON STOCK CHANGES AND NET CO₂ EMISSIONS AND REMOVALS FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL

Article 3.3 activities: Afforestation and Reforestation ^{(1), (2)}

Units of land not harvested since the beginning of the commitment period

Country
Year
Submission

| GEOGRAPHICAL LOCATION ⁽³⁾ | ACTIVITY DATA | | | IMPLIED CARBON STOCK CHANGE FACTORS ⁽⁷⁾ | | | | | | | | | Implied emission/ removal/ factor per area ⁽⁹⁾ | CHANGE IN CARBON STOCK ⁽⁷⁾ | | | | | | | | | Net CO ₂ emissions/ removals ⁽⁹⁾ |
|--------------------------------------|-----------------------|----------------------------|------------------------------|--|-------|--------|--|-------|--------|---|--|--|--|---|---------------|-------|---|------------|-------|--|---|---|--|
| | | | | Carbon stock change in above-ground biomass per area ^{(5), (6)} | | | Carbon stock change in below-ground biomass per area ^{(5), (6)} | | | Net carbon stock change in litter per area ⁽⁵⁾ | Net carbon stock change in dead wood per area ⁽⁵⁾ | Net carbon stock change in soils per area ⁽⁵⁾ | | Carbon stock change in above-ground biomass ^{(5), (6)} | | | Carbon stock change in below-ground biomass ^{(5), (6)} | | | Net carbon stock change in litter ⁽⁵⁾ | Net carbon stock change in dead wood ⁽⁶⁾ | Net carbon stock change in soils ⁽⁵⁾ | |
| | Identification code | Subdivision ⁽⁴⁾ | Area subject to the activity | Area of organic soils ⁽⁸⁾ | Gains | Losses | Net change | Gains | Losses | | | Net change | | Mineral soils | Organic soils | Gains | Losses | Net change | Gains | | | Losses | |
| | | | | | | | | | | (kha) | (kha) | | | | | | | | | (Mg C/ha) | (Mg CO ₂ /ha) | | |
| Total for activity A.1.1 | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | |
| ... | ... | | | | | | | | | | | | | | | | | | | | | | |

Documentation box
Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR. Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

- (1) Report here information on anthropogenic change in carbon stock for the inventory year for all geographical locations that encompass units of land subject to Afforestation and Reforestation under Article 3.3 not harvested since the beginning of the commitment period.
- (2) As both Afforestation and Reforestation under Article 3.3 are subject to the same provisions specified in the annex to draft decision 16/CMP.1 (Land use, land-use change and forestry), they can be reported together.
- (3) Geographical location refers to the boundaries of the areas that encompass units of land subject to Afforestation and Reforestation.
- (4) Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.
- (5) The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- (6) Carbon stock gains and losses should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on gains and losses. In that case, net gains should be reported in the "Gains" column and net losses should be reported in the "Losses" column. The notation key IE should be filled in, in the other column.
- (7) Note that net change corresponds to increase/decrease of carbon stock (see table 4.2.6a of the IPCC good practice guidance for LULUCF).
- (8) This information is needed for the calculation of the net carbon stock changes in soils per area.
- (9) According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and changing the sign for net CO₂ removals to be negative (-) and for net CO₂ emissions to be positive (+).
- (10) The value reported here is an emission and not a carbon stock change

TABLE 5(KP-DA.1.2. SUPPLEMENTARY BACKGROUND DATA ON CARBON STOCK CHANGES AND NET CO₂ EMISSIONS AND REMOVALS FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
Article 3.3 activities: Afforestation and Reforestation ^{(1), (2)}
Units of land harvested since the beginning of the commitment period

Country
Year
Submission

| GEOGRAPHICAL LOCATION ⁽³⁾ | ACTIVITY DATA | | | IMPLIED CARBON STOCK CHANGE FACTORS ⁽⁷⁾ | | | | | | | | | Implied emission/ removal factor per area ⁽⁹⁾ | CHANGE IN CARBON STOCK ⁽⁷⁾ | | | | | | | | | Net CO ₂ emissions/ removals ⁽⁹⁾ | | |
|--------------------------------------|----------------------------|------------------------------|--------------------------------------|--|--------|------------|--|---------------|-------|---|--|--|--|---|--------|--------|---|---------------|-------------------------------|--|---|---|--|-----------------------|--|
| | | | | Carbon stock change in above-ground biomass per area ^{(5), (6)} | | | Carbon stock change in below-ground biomass per area ^{(5), (6)} | | | Net carbon stock change in litter per area ⁽⁵⁾ | Net carbon stock change in dead wood per area ⁽⁵⁾ | Net carbon stock change in soils per area ⁽⁵⁾ | | Carbon stock change in above-ground biomass ^{(5), (6)} | | | Carbon stock change in below-ground biomass ^{(5), (6)} | | | Net carbon stock change in litter ⁽⁵⁾ | Net carbon stock change in dead wood ⁽⁵⁾ | Net carbon stock change in soils ⁽⁵⁾ | | | |
| | Gains | Losses | Net change | Gains | Losses | Net change | Mineral soils | Organic soils | Gains | | | Losses | | Net change | Gains | Losses | Net change | Mineral soils | Organic soils ⁽¹⁰⁾ | | | | | | |
| | Subdivision ⁽⁴⁾ | Area subject to the activity | Area of organic soils ⁽⁸⁾ | (Mg C/ha) | | | | | | | | | | (Mg CO ₂ /ha) | (Gg C) | | | | | | | | | (Gg CO ₂) | |
| Total for activity A.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | |
| ... | ... | | | | | | | | | | | | | | | | | | | | | | | | |

Documentation box
Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR. Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

⁽¹⁾ Report here information on anthropogenic change in carbon stock for the inventory year for all geographical locations that encompass units of land subject to Afforestation and Reforestation under Article 3.3 harvested since the beginning of the commitment period.
⁽²⁾ As both Afforestation and Reforestation under Article 3.3 are subject to the same provisions specified in the annex to decision 16/CMP.1, they can be reported together.
⁽³⁾ Geographical location refers to the boundaries of the areas that encompass units of land subject to Afforestation and Reforestation.
⁽⁴⁾ Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.
⁽⁵⁾ The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
⁽⁶⁾ Carbon stock gains and losses should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on gains and losses. In that case, net gains should be reported in the "Gains" column and net losses should be reported in the "Losses" column. The notation key IE should be filled in, in the other column.
⁽⁷⁾ Note that net change corresponds to increase / decrease of carbon stock (see table 4.2.6a of the IPCC good practice guidance for LULUCF).
⁽⁸⁾ This information is needed for the calculation of the net carbon stock changes in soils per area.
⁽⁹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and changing the sign for net CO₂ removals to be negative (-) and for net CO₂ emissions to be positive (+).
⁽¹⁰⁾ The value reported here is an emission and not a carbon stock change.

TABLE 5(KP-I)A.1.3. SUPPLEMENTARY BACKGROUND FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL

Article 3.3 activities: Afforestation and Reforestation ^{(1), (2)}
Units of land otherwise subject to elected activities under Article 3.4 (information item)

Country
 Year
 Submission

| GEOGRAPHICAL LOCATION ⁽³⁾ | ACTIVITY DATA | |
|--------------------------------------|------------------------------|---------------------------------------|
| Identification code | Subdivision ⁽⁴⁾ | Area subject to the activity (kha) |
| Total for activity A.1.3 | | |
| <i>[specify identification code]</i> | | |
| ... | <i>[specify subdivision]</i> | |
| | <i>[specify subdivision]</i> | |
| <i>[specify identification code]</i> | | |
| ... | ... | |

Documentation box
 Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

- (1) Units of land subject to Afforestation or Reforestation under Article 3.3 otherwise subject to elected activities under Article 3.4 are implicitly included under A.1.1 or A.1.2. They are reported here for transparency and to fulfil the requirement of paragraph 6 (b) (ii) of the annex to decision 15/CMP.1.
- (2) As both Afforestation and Reforestation under Article 3.3 are subject to the same provisions specified in the annex to decision 16/CMP.1, they can be reported together.
- (3) Geographical location refers to the boundaries of the areas that encompass units of land subject to Afforestation and Reforestation, which would otherwise be included in land subject to elected activities under Article 3.4.
- (4) Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.

TABLE 5(KP-DA.2. SUPPLEMENTARY BACKGROUND DATA ON CARBON STOCK CHANGES AND NET CO₂ EMISSIONS AND REMOVALS FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
Article 3.3 activities: Deforestation ⁽¹⁾

Country
Year
Submission

| GEOGRAPHICAL LOCATION ⁽²⁾ | ACTIVITY DATA | | | IMPLIED CARBON STOCK CHANGE FACTORS ⁽⁶⁾ | | | | | | | | Implied emission/removal factor per area ⁽⁸⁾ (Mg CO ₂ /ha) | CHANGE IN CARBON STOCK ⁽⁶⁾ | | | | | | | | Net CO ₂ emissions/removals ⁽⁸⁾ (Gg CO ₂) | | | | |
|--------------------------------------|----------------------------|------------------------------|--------------------------------------|--|--------|------------|--|---------------|-------|---|--|---|--|------------|---|--------|------------|---|--------|------------|--|--|---|---|------------------------------|
| | | | | Carbon stock change in above-ground biomass per area ^{(4), (5)} | | | Carbon stock change in below-ground biomass per area ^{(4), (5)} | | | Net carbon stock change in litter per area ⁽⁴⁾ | Net carbon stock change in dead wood per area ⁽⁴⁾ | | Net carbon stock change in soils per area ⁽⁴⁾ | | Carbon stock change in above-ground biomass ^{(4), (5)} | | | Carbon stock change in below-ground biomass ^{(4), (5)} | | | | Net carbon stock change in litter ⁽⁴⁾ | Net carbon stock change in dead wood ⁽⁴⁾ | Net carbon stock change in soils ⁽⁴⁾ | |
| | Gains | Losses | Net change | Gains | Losses | Net change | Mineral soils | Organic soils | Gains | | | | Losses | Net change | Gains | Losses | Net change | Gains | Losses | Net change | | | | Mineral soils | Organic soils ⁽⁹⁾ |
| | | | | (Mg C/ha) | | | | | | | | | (Gg C) | | | | | | | | | | | | |
| Identification code | Subdivision ⁽³⁾ | Area subject to the activity | Area of organic soils ⁽⁷⁾ | | | | | | | | | | | | | | | | | | | | | | |
| | | (kha) | (kha) | | | | | | | | | | | | | | | | | | | | | | |
| Total for activity A.2. | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | |
| ... | ... | | | | | | | | | | | | | | | | | | | | | | | | |

Documentation box
Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR. Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR, if any additional details are needed to understand the content of this table.

- (1) Report here information on anthropogenic change in carbon stock for the inventory year for all geographical locations that encompass units of land subject to Deforestation under Article 3.3.
- (2) Geographical location refers to the boundaries of the areas that encompass units of land subject to Deforestation.
- (3) Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.
- (4) The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- (5) Carbon stock gains and losses should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on gains and losses. In that case, net gains should be reported in the "Gains" column and net losses should be reported in the "Losses" column. The notation key IE should be filled in, in the other column.
- (6) Note that net change corresponds to increase / decrease of carbon stock (see table 4.2.6a of the IPCC good practice guidance for LULUCF).
- (7) This information is needed for the calculation of the net carbon stock changes in soils per area.
- (8) According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and changing the sign for net CO₂ removals to be negative (-) and for net CO₂ emissions to be positive (+).
- (9) The value reported here is an emission and not a carbon stock change.

TABLE 5(KP-I)A.2.1. SUPPLEMENTARY BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL

Article 3.3 activities: Deforestation ⁽¹⁾

Units of land otherwise subject to elected activities under Article 3.4 (information item)

Country
Year
Submission

| GEOGRAPHICAL LOCATION ⁽²⁾ | ACTIVITY DATA | |
|--------------------------------------|------------------------------|---------------------------------------|
| Identification code | Subdivision ⁽³⁾ | Area subject to the activity (kha) |
| Total for activity A.2.1. | | |
| <i>[specify identification code]</i> | | |
| ... | <i>[specify subdivision]</i> | |
| ... | <i>[specify subdivision]</i> | |
| <i>[specify identification code]</i> | | |
| ... | ... | |

Documentation box

Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

⁽¹⁾ Units of lands subject to Deforestation under Article 3.3 otherwise subject to elected activities under Article 3.4 are implicitly included under A.2. They are reported here for transparency and to fulfil the requirement of paragraph 6 (b) (ii) of the annex to decision 15/CMP.1.

⁽²⁾ Geographical location refers to the boundaries of the areas that encompass units of land subject to Deforestation which would otherwise be included in land subject to elected activities under Article 3.4.

⁽³⁾ Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.

TABLE 5(KP-IB).1. SUPPLEMENTARY BACKGROUND DATA ON CARBON STOCK CHANGES AND NET CO₂ EMISSIONS AND REMOVALS FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
Elected Article 3.4 activities: Forest Management⁽¹⁾

Country
Year
Submission

| GEOGRAPHICAL LOCATION ⁽²⁾ | | ACTIVITY DATA | | | IMPLIED CARBON STOCK CHANGE FACTORS ⁽⁶⁾ | | | | | | | | Implied emission/ removal factor per area ⁽⁸⁾ (Mg CO ₂ /ha) | CHANGE IN CARBON STOCK ⁽⁶⁾ | | | | | | | | Net CO ₂ emissions/ removals ⁽⁸⁾ (Gg CO ₂) | | | |
|--------------------------------------|----------------------------|---|---|--|--|------------|--|--------|------------|---|--|--|---|---|--------|--------|---|-------|--------|--|---|---|---|---------------|------------------------------|
| Identification code | Subdivision ⁽³⁾ | Area subject to the activity (kha) | Area of organic soils ⁽⁷⁾ (kha) | Carbon stock change in above-ground biomass per area ^{(4), (5)} | | | Carbon stock change in below-ground biomass per area ^{(4), (5)} | | | Net carbon stock change in litter per area ⁽⁴⁾ | Net carbon stock change in dead wood per area ⁽⁴⁾ | Net carbon stock change in soils per area ⁽⁴⁾ | | Carbon stock change in above-ground biomass ^{(4), (5)} | | | Carbon stock change in below-ground biomass ^{(4), (5)} | | | Net carbon stock change in litter ⁽⁴⁾ | Net carbon stock change in dead wood ⁽⁴⁾ | | Net carbon stock change in soils ⁽⁴⁾ | | |
| | | | | Gains | Losses | Net change | Gains | Losses | Net change | | | Mineral soils | | Organic soils | Gains | Losses | Net change | Gains | Losses | | | | Net change | Mineral soils | Organic soils ⁽⁹⁾ |
| | | | | (Mg C/ha) | | | | | | | | | | | (Gg C) | | | | | | | | | | |
| Total for activity B.1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | | |
| ... | | | | | | | | | | | | | | | | | | | | | | | | | |

Documentation box
Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR. Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

(1) If Forest Management has been elected, report here information on anthropogenic carbon stock change for the inventory year for all geographical locations that encompass land subject to Forest Management under Article 3.4.
(2) Geographical location refers to the boundaries of the areas that encompass land subject to Forest Management (if elected).
(3) Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.
(4) The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
(5) Carbon stock gains and losses should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on gains and losses. In that case, net gains should be reported in the "Gains" column and net losses should be reported in the "Losses" column. The notation key IE should be filled in, in the other column.
(6) Note that net change corresponds to increase / decrease of carbon stock (see table 4.2.6a of the IPCC good practice guidance for LULUCF).
(7) This information is needed for the calculation of the net carbon stock changes in soils per area.
(8) According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and changing the sign for net CO₂ removals to be negative (-) and for net CO₂ emissions to be positive (+).
(9) The value reported here is an emission and not a carbon stock change.

TABLE 5(KP-1)B.2 SUPPLEMENTARY BACKGROUND DATA ON CARBON STOCK CHANGES AND NET CO₂ EMISSIONS AND REMOVALS FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
Elected Article 3.4 activities: Cropland Management ^{(1), (2)}

Country
Year
Submission

| GEOGRAPHICAL LOCATION ⁽³⁾ | ACTIVITY DATA | | | IMPLIED CARBON STOCK CHANGE FACTORS ⁽⁷⁾ | | | | | | | | | Implied emission/removal factor per area ⁽¹⁰⁾ | CHANGE IN CARBON STOCK ⁽⁷⁾ | | | | | | | | | Net CO ₂ emissions/removals ⁽¹⁰⁾ | |
|--------------------------------------|-----------------------|--------|------------|--|--------|------------|--|---|---------------|---|--|--|--|---|-------|--------|---|---------------------------------|------------------------------------|---|---|---|--|--------|
| | | | | Carbon stock change in above-ground biomass per area ^{(5), (6)} | | | Carbon stock change in below-ground biomass per area ^{(5), (6)} | | | Net carbon stock change in litter per area ⁽⁵⁾ | Net carbon stock change in dead wood per area ⁽⁵⁾ | Net carbon stock change in soils per area ⁽⁵⁾ | | Carbon stock change in above-ground biomass ^{(5), (6)} | | | Carbon stock change in below-ground biomass ^{(5), (6)} | | | Net C stock change in litter ⁽⁵⁾ | Net carbon stock change in dead wood ⁽⁵⁾ | Net carbon stock change in soils ⁽⁵⁾ | | |
| | Gains | Losses | Net change | Gains | Losses | Net change | change in litter per area ⁽⁵⁾ | change in dead wood per area ⁽⁵⁾ | Mineral soils | Organic soils | Gains | Losses | | Net change | Gains | Losses | Net change | change in litter ⁽⁵⁾ | change in dead wood ⁽⁵⁾ | Mineral soils | Organic soils ⁽⁸⁾ | (Mg CO ₂ /ha) | | (Gg C) |
| Total for activity B.2 | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | |
| ... | .. | | | | | | | | | | | | | | | | | | | | | | | |

Documentation box
Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

- (1) If Cropland Management has been elected, report here information on anthropogenic carbon stock change for the inventory year for all geographical locations that encompass land subject to Cropland Management under Article 3.4.
- (2) If Cropland Management has been elected, this table and all relevant tables should also be reported for the base year for Cropland Management.
- (3) Geographical location refers to the boundaries of the areas that encompass land subject to Cropland Management (if elected).
- (4) Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.
- (5) The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- (6) Carbon stock gains and losses should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on gains and losses. In that case, net gains should be reported in the "Gains" column and net losses should be reported in the "Losses" column. The notation key IE should be filled in, in the other column.
- (7) Note that net change corresponds to increase / decrease of carbon stock (see table 4.2.6b of the IPCC good practice guidance for LULUCF).
- (8) The value reported here is an emission and not a carbon stock change.
- (9) This information is needed for the calculation of the net carbon stock changes in soils per area.
- (10) According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and changing the sign for net CO₂ removals to be negative (-) and for net CO₂ emissions to be positive (+).

TABLE 5(KP.1)B.3 SUPPLEMENTARY BACKGROUND DATA ON CARBON STOCK CHANGES AND NET CO₂ EMISSIONS AND REMOVALS FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
 Elected Article 3.4 activities: Grazing Land Management ^{(1) (2)}

Country
 Year
 Submission

| GEOGRAPHICAL LOCATION ⁽³⁾ | | ACTIVITY DATA | | IMPLIED CARBON STOCK CHANGE FACTORS ⁽⁷⁾ | | | | | | | | Implied emission/removal factor per area ⁽¹⁰⁾ (Mg CO ₂ /ha) | CHANGE IN CARBON STOCK ⁽⁷⁾ | | | | | | | | Net CO ₂ emissions/removals ⁽¹⁰⁾ (Gg CO ₂) | | | | | |
|--------------------------------------|----------------------------|---------------------------------------|---|--|--------|------------|--|--------|------------|---|--|--|--|---------------|---|--------|------------|---|--------|------------|---|---|---|---|------------------------------|--|
| Identification code | Subdivision ⁽⁴⁾ | Area subject to the activity (kha) | Area of organic soils ⁽⁹⁾ (kha) | Carbon stock change in above-ground biomass per area ^{(5), (6)} | | | Carbon stock change in below-ground biomass per area ^{(5), (6)} | | | Net carbon stock change in litter per area ⁽⁵⁾ | Net carbon stock change in dead wood per area ⁽⁵⁾ | | Net carbon stock change in soils per area ⁽⁵⁾ | | Carbon stock change in above-ground biomass ^{(5), (6)} | | | Carbon stock change in below-ground biomass ^{(5), (6)} | | | | Net C stock change in litter ⁽⁵⁾ | Net carbon stock change in dead wood ⁽⁵⁾ | Net carbon stock change in soils ⁽⁵⁾ | | |
| | | | | Gains | Losses | Net change | Gains | Losses | Net change | | | | Mineral soils | Organic soils | Gains | Losses | Net change | Gains | Losses | Net change | | | | Mineral soils | Organic soils ⁽⁸⁾ | |
| | | | | (Mg C/ha) | | | | | | | | (Mg CO ₂ /ha) | (Gg C) | | | | | | | | (Gg CO ₂) | | | | | |
| Total for activity B.3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ... | | | | | | | | | | | | | | | | | | | | | | | | | | |

Documentation box
 Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR. Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

⁽¹⁾ If Grazing Land Management has been elected, report here information on anthropogenic carbon stock change for the inventory year for all geographical locations that encompass land subject to Grazing Land Management under Article 3.4.
⁽²⁾ If Grazing Land Management has been elected, this table and all relevant CRF Tables should also be reported for the base year for Cropland Management.
⁽³⁾ Geographical location refers to the boundaries of the areas that encompass land subject to Grazing Land Management (if elected).
⁽⁴⁾ Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.
⁽⁵⁾ The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
⁽⁶⁾ Carbon stock gains and losses should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on gains and losses. In that case, net gains should be reported in the "Gains" column and net losses should be reported in the "Losses" column. The notation key IE should be filled in, in the other column.
⁽⁷⁾ Note that net change corresponds to increase / decrease of carbon stock (see table 4.2.6b of the IPCC good practice guidance for LULUCF).
⁽⁸⁾ The value reported here is an emission and not a carbon stock change.
⁽⁹⁾ This information is needed for the calculation of the net carbon stock changes in soils per area.
⁽¹⁰⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and changing the sign for net CO₂ removals to be negative (-) and for net CO₂ emissions to be positive (+).

TABLE 5(KP-IB.4 SUPPLEMENTARY BACKGROUND DATA ON CARBON STOCK CHANGES AND NET CO₂ EMISSIONS AND REMOVALS FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
Elected Article 3.4 activities: Revegetation ^{(1), (2)}

Country
Year
Submission

| GEOGRAPHICAL LOCATION ⁽³⁾ | ACTIVITY DATA | | | IMPLIED CARBON STOCK CHANGE FACTORS ⁽⁷⁾ | | | | | | | | | | Implied emission/removal factor per area ⁽¹⁰⁾ (Mg CO ₂ /ha) | CHANGE IN CARBON STOCK ⁽⁷⁾ | | | | | | | | | Net CO ₂ emissions/removals ⁽¹⁰⁾ (Gg CO ₂) |
|--------------------------------------|-----------------------|----------------------------|---------------------------------------|--|--------|------------|--|--------|------------|---|--|--|---------------|--|---|--------|------------|---|---|---|------------------------------|--|--|---|
| | Identification code | Subdivision ⁽⁴⁾ | Area subject to the activity (kha) | Carbon stock change in above-ground biomass per area ^{(5), (6)} | | | Carbon stock change in below-ground biomass per area ^{(5), (6)} | | | Net carbon stock change in litter per area ⁽⁵⁾ | Net carbon stock change in dead wood per area ⁽⁵⁾ | Net carbon stock change in soils per area ⁽⁵⁾ | | | Carbon stock change in above-ground biomass ^{(5), (6)} | | | Net C stock change in litter ⁽⁵⁾ | Net carbon stock change in dead wood ⁽⁵⁾ | Net carbon stock change in soils ⁽⁵⁾ | | | | |
| | | | | Gains | Losses | Net change | Gains | Losses | Net change | | | Mineral soils | Organic soils | | Gains | Losses | Net change | | | Mineral soils | Organic soils ⁽⁸⁾ | | | |
| | (Mg C/ha) | | | | | | | | | | (Gg C) | | | | | | | | | (Gg CO ₂) | | | | |
| Total for activity B.4 | | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | |
| [specify identification code] | | | | | | | | | | | | | | | | | | | | | | | | |
| | [specify subdivision] | | | | | | | | | | | | | | | | | | | | | | | |
| ... | .. | | | | | | | | | | | | | | | | | | | | | | | |

Documentation box
Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR. Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

(1) If Revegetation has been elected, report here information on anthropogenic carbon stock change for the inventory year for all geographical locations that encompass land subject to Revegetation under Article 3.4.
(2) If Revegetation has been elected, this table and all relevant CRF tables should also be reported for the base year for Revegetation.
(3) Geographical location refers to the boundaries of the areas that encompass land subject to Revegetation (if elected).
(4) Activity data may be further subdivided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone, national land classification or other criteria. Complete one row for each subdivision.
(5) The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
(6) Carbon stock gains and losses should be listed separately except in cases where, due to the methods used, it is technically impossible to separate information on gains and losses. In that case, net gains should be reported in the “Gains” column and net losses should be reported in the “Losses” column. The notation key IE should be filled in, in the other column.
(7) Note that net change corresponds to increase / decrease of carbon stock (see table 4.2.6b of the IPCC good practice guidance for LULUCF).
(8) The value reported here is an emission and not a carbon stock change.
(9) This information is needed for the calculation of the net carbon stock changes in soils per area.
(10) According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). Net changes in carbon stocks are converted to CO₂ by multiplying C by 44/12 and changing the sign for net CO₂ removals to be negative (-) and for net CO₂ emissions to be positive (+).

TABLE 5(KP-II)1 SUPPLEMENTARY BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
Direct N₂O emissions from N fertilization ^{(1), (2)}

Country
Year
Submission

| Identification code of geographical location | ACTIVITY DATA | IMPLIED EMISSION FACTOR | EMISSIONS |
|--|--|---|-----------------------|
| | Total amount of fertilizer applied (Gg N/year) | N ₂ O-N emissions per unit of fertilizer (kg N ₂ O-N/kg N) ⁽³⁾ | N ₂ O (Gg) |
| A.1.1. Afforestation/Reforestation: units of land not harvested since the beginning of the commitment period ⁽⁴⁾ | | | |
| <i>[specify identification code]</i> | | | |
| ... | | | |
| A.1.2. Afforestation/Reforestation: units of land harvested since the beginning of the commitment period ⁽⁴⁾ | | | |
| <i>[specify identification code]</i> | | | |
| ... | | | |
| B.1. Forest Management (if elected) ⁽⁵⁾ | | | |
| <i>[specify identification code]</i> | | | |
| ... | | | |

Documentation box
Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

- (1) N₂O emissions from fertilization for Cropland Management, Grazing Land Management and Revegetation should be reported in the Agriculture sector. If a Party is not able to separate fertilizer applied to Forest Land from Agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.
- (2) Direct N₂O emissions from fertilization are estimated following section 3.2.1.4.1 of the IPCC good practice guidance for LULUCF based on the amount of fertilizer applied to land under Forest Management. The indirect N₂O emissions from Afforestation and Reforestation and land under Forest Management are estimated as part of the total indirect emissions in the Agriculture sector based on the total amount of fertilizer used in the country. Parties should show that double counting of N₂O emissions from fertilization with Agriculture sector estimates has been avoided.
- (3) In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.
- (4) Geographical location refers to the boundaries of the areas that encompass units of land subject to Afforestation and Reforestation.
- (5) Geographical location refers to the boundaries of the areas that encompass land subject to Forest Management (if elected).

TABLE 5(KP-II)2 SUPPLEMENTARY BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
Elected Article 3.4 activities: Forest Management
N₂O emissions from drainage of soils ^{(1), (2)}

Country
Year
Submission

| Identification code of geographical location ⁽³⁾ | ACTIVITY DATA | IMPLIED EMISSION FACTOR | EMISSIONS |
|---|--------------------------------|--|--------------------------|
| | Area of drained soils (kha) | N ₂ O-N per area drained (kg N ₂ O-N/ha) ⁽⁴⁾ | N ₂ O (Gg) |
| B.1. Forest Management (if elected) | | | |
| <i>Total for organic soils</i> | | | |
| <i>Total for mineral soils</i> | | | |
| <i>[specify identification code]</i> | | | |
| Organic soils | | | |
| Mineral soils | | | |
| ... | | | |

| Documentation box |
|--|
| Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table. |
| |

- (1) Methodologies for estimating N₂O emissions from drainage of soils are not addressed in the Revised 1996 IPCC Guidelines, but Appendix 3a.2 of the IPCC good practice guidance for LULUCF provides methodologies for consideration.
- (2) N₂O emissions from drainage of soils include those resulting from Forest Management. N₂O emissions from drained Cropland and Grassland soils are covered in the Agriculture sector under Cultivation of Histosols.
- (3) Geographical location refers to the boundaries of the areas that encompass land subject to Forest Management (if elected).
- (4) In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

TABLE 5(KP-II)3 SUPPLEMENTARY BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL

N₂O emissions from disturbance associated with land-use conversion to cropland ^{(1),(2)}

Country
Inventory Year
Submission

| Identification code of geographical location | ACTIVITY DATA | IMPLIED EMISSION FACTOR | EMISSIONS |
|--|---------------------------|---|-----------------------|
| | Land area converted (kha) | N ₂ O-N per area converted ⁽⁵⁾ (kg N ₂ O-N/ha) | N ₂ O (Gg) |
| A.2. Deforestation ^{(3),(6)} | | | |
| <i>Total organic soils</i> | | | |
| <i>Total mineral soils</i> | | | |
| <i>[specify identification code]</i> | | | |
| Organic soils ^{(7),(10)} | | | |
| Mineral soils ⁽⁷⁾ | | | |
| ... | | | |
| B.2. Cropland Management (if elected) ^{(4),(8)} | | | |
| <i>Total organic soils</i> | | | |
| <i>Total mineral soils</i> | | | |
| <i>[specify identification code]</i> | | | |
| Organic soils ^{(7),(10)} | | | |
| Mineral soils ⁽⁷⁾ | | | |
| ... | | | |
| Information items ⁽⁹⁾ | | | |
| A.2.1. Deforestation: units of land otherwise subject to elected activities under Article 3.4 ⁽⁶⁾ | | | |
| <i>Total organic soils</i> | | | |
| <i>Total mineral soils</i> | | | |
| <i>[specify identification code]</i> | | | |
| Organic soils ^{(7),(10)} | | | |
| Mineral soils ⁽⁷⁾ | | | |
| ... | | | |
| Documentation box | | | |
| Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table. | | | |

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion to Croplands are found in section 3.3.2.3.1.1 of the IPCC good practice guidance for LULUCF. N₂O emissions from fertilization in the preceding land use and new land use should not be reported here. Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

⁽²⁾ According to the IPCC good practice guidance for LULUCF N₂O emissions from disturbance of soils are only relevant for land conversions to Cropland. N₂O emissions from Cropland Management when Cropland is remaining Cropland are included in the Agriculture sector.

⁽³⁾ Geographical location refers to the boundaries of the areas that encompass units of land subject to Deforestation.

⁽⁴⁾ Geographical location refers to the boundaries of the areas that encompass land subject to Cropland Management, if elected.

⁽⁵⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁶⁾ N₂O emissions associated with Deforestation followed by the establishment of Cropland should be reported under Deforestation even if Cropland Management is not elected under Article 3.4.

⁽⁷⁾ Parties may separate data for organic and mineral soils, if they have data available.

⁽⁸⁾ This includes N₂O emissions in land subject to Cropland Management from disturbance of soils due to the conversion to Cropland of lands other than Forest Lands.

⁽⁹⁾ Units of land subject to Deforestation under Article 3.3 otherwise subject to elected activities under Article 3.4 are implicitly included under A.2. They are reported here for transparency and to fulfil the requirement of paragraph 6 (b) (ii) of the annex to decision 15/CMP.1.

⁽¹⁰⁾ N₂O emissions from Cropland are included in the Agriculture sector.

TABLE 5(KP-II)4 SUPPLEMENTARY BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

ACTIVITIES UNDER THE KYOTO PROTOCOL

Carbon emissions from lime application ⁽¹⁾

Country
 Inventory Year
 Submission

| Identification code of geographical location ⁽²⁾ | ACTIVITY DATA | IMPLIED EMISSION FACTOR | EMISSIONS |
|--|---|---|----------------|
| | Total amount of lime applied (Mg/year) | Carbon emission per unit of lime (Mg C/Mg) | Carbon (Gg) |
| A.1.1. Afforestation/Reforestation: units of land not harvested since the beginning of the commitment period ^{(2), (8), (9)} | | | |
| <i>Total for limestone</i> | | | |
| <i>Total for dolomite</i> | | | |
| <i>[specify identification code]</i> | | | |
| Limestone (CaCO ₃) | | | |
| Dolomite (CaMg(CO ₃) ₂) | | | |
| ... | | | |
| A.1.2. Afforestation/Reforestation: units of land harvested since the beginning of the commitment period ^{(2), (8), (9)} | | | |
| <i>Total for limestone</i> | | | |
| <i>Total for dolomite</i> | | | |
| <i>[specify identification code]</i> | | | |
| Limestone (CaCO ₃) | | | |
| Dolomite (CaMg(CO ₃) ₂) | | | |
| ... | | | |
| A.2. Deforestation ^{(3), (8), (9)} | | | |
| <i>Total for limestone</i> | | | |
| <i>Total for dolomite</i> | | | |
| <i>[specify identification code]</i> | | | |
| Limestone (CaCO ₃) | | | |
| Dolomite (CaMg(CO ₃) ₂) | | | |
| ... | | | |
| B.1. Forest Management (if elected) ^{(4), (8), (9)} | | | |
| <i>Total for limestone</i> | | | |
| <i>Total for dolomite</i> | | | |
| <i>[specify identification code]</i> | | | |
| Limestone (CaCO ₃) | | | |
| Dolomite (CaMg(CO ₃) ₂) | | | |
| ... | | | |
| B.2. Cropland Management (if elected) ^{(5), (8), (9)} | | | |
| <i>Total for limestone</i> | | | |
| <i>Total for dolomite</i> | | | |
| <i>[specify identification code]</i> | | | |
| Limestone (CaCO ₃) | | | |
| Dolomite (CaMg(CO ₃) ₂) | | | |
| ... | | | |
| B.3. Grazing Land Management (if elected) ^{(6), (8), (9)} | | | |
| <i>Total for limestone</i> | | | |
| <i>Total for dolomite</i> | | | |
| <i>[specify identification code]</i> | | | |
| Limestone (CaCO ₃) | | | |
| Dolomite (CaMg(CO ₃) ₂) | | | |
| ... | | | |
| B.4. Revegetation (if elected) ^{(7), (8), (9)} | | | |
| <i>Total for limestone</i> | | | |
| <i>Total for dolomite</i> | | | |
| <i>[specify identification code]</i> | | | |
| Limestone (CaCO ₃) | | | |
| Dolomite (CaMg(CO ₃) ₂) | | | |
| ... | | | |

Documentation box

Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR: Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

- (1) Carbon emissions from agricultural lime application are addressed in sections 3.3.1.2.1.1 and 3.3.2.1.1.1 of the IPCC good practice guidance for LULUCF
- (2) Geographical locations refers to the boundaries of the areas that encompass units of land subject to Afforestation and Reforestation.
- (3) Geographical locations refers to the boundaries of the areas that encompass units of land subject to Deforestation.
- (4) Geographical locations refers to the boundaries of the areas that encompass land subject to Forest Management, if elected.
- (5) Geographical locations refers to the boundaries of the areas that encompass land subject to Cropland Management, if elected.
- (6) Geographical locations refers to the boundaries of the areas that encompass land subject to Grazing Land Management, if elected.
- (7) Geographical locations refers to the boundaries of the areas that encompass land subject to Revegetation, if elected.
- (8) If Parties are not able to separate lime application for different geographical locations, they should include liming for all geographical locations in the total.
- (9) A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

TABLE 5(KP-II)5 SUPPLEMENTARY BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY ACTIVITIES UNDER THE KYOTO PROTOCOL
GHG emissions from biomass burning

Country
Inventory Year
Submission

| Identification code of geographical location | ACTIVITY DATA | | | IMPLIED EMISSION FACTOR | | | EMISSIONS | | |
|---|----------------------------------|-------------|--------|-------------------------|-----------------|------------------|--------------------------------|--------------------------------|------------------|
| | Description ⁽⁷⁾ | Unit | Values | CO ₂ | CH ₄ | N ₂ O | CO ₂ ⁽⁸⁾ | CH ₄ ⁽⁸⁾ | N ₂ O |
| | Area (AB) or biomass burned (BB) | ha or kg dm | | (Mg/activity data unit) | | | (Gg) | | |
| A.1.1. Afforestation/Reforestation: units of land not harvested since the beginning of the commitment period^{(1),(9)} | | | | | | | | | |
| <i>Total for controlled burning</i> | | | | | | | | | |
| <i>Total for wildfires</i> | | | | | | | | | |
| [specify identification code] | | | | | | | | | |
| Controlled burning | | | | | | | | | |
| Wildfires | | | | | | | | | |
| | | | | | | | | | |
| A.1.2. Afforestation/Reforestation: units of land harvested since the beginning of the commitment period^{(1),(9)} | | | | | | | | | |
| <i>Total for controlled burning</i> | | | | | | | | | |
| <i>Total for wildfires</i> | | | | | | | | | |
| [specify identification code] | | | | | | | | | |
| Controlled burning | | | | | | | | | |
| Wildfires | | | | | | | | | |
| | | | | | | | | | |
| A.2. Deforestation^{(2),(9)} | | | | | | | | | |
| <i>Total for controlled burning</i> | | | | | | | | | |
| <i>Total for wildfires</i> | | | | | | | | | |
| [specify identification code] | | | | | | | | | |
| Controlled burning | | | | | | | | | |
| Wildfires | | | | | | | | | |
| | | | | | | | | | |
| B.1. Forest Management (if elected)^{(3),(9)} | | | | | | | | | |
| <i>Total for controlled burning</i> | | | | | | | | | |
| <i>Total for wildfires</i> | | | | | | | | | |
| [specify identification code] | | | | | | | | | |
| Controlled burning | | | | | | | | | |
| Wildfires | | | | | | | | | |
| | | | | | | | | | |
| B.2. Cropland Management (if elected)^{(4),(9),(10)} | | | | | | | | | |
| <i>Total for controlled burning</i> | | | | | | | | | |
| <i>Total for wildfires</i> | | | | | | | | | |
| [specify identification code] | | | | | | | | | |
| Controlled burning | | | | | | | | | |
| Wildfires | | | | | | | | | |
| | | | | | | | | | |
| B.3. Grazing Land Management (if elected)^{(5),(9),(11)} | | | | | | | | | |
| <i>Total for controlled burning</i> | | | | | | | | | |
| <i>Total for wildfires</i> | | | | | | | | | |
| [specify identification code] | | | | | | | | | |
| Controlled burning | | | | | | | | | |
| Wildfires | | | | | | | | | |
| | | | | | | | | | |
| B.4. Revegetation (if elected)^{(6),(9)} | | | | | | | | | |
| <i>Total for controlled burning</i> | | | | | | | | | |
| <i>Total for wildfires</i> | | | | | | | | | |
| [specify identification code] | | | | | | | | | |
| Controlled burning | | | | | | | | | |
| Wildfires | | | | | | | | | |
| | | | | | | | | | |

Documentation box

Parties should provide detailed explanation on the land use, land-use change and forestry sector in the relevant annex of the NIR. Supplementary information on LULUCF activities under the Kyoto Protocol. Use this documentation box to provide references to relevant sections of the NIR if any additional details are needed to understand the content of this table.

- (1) Geographical locations refers to the boundaries of the areas that encompass units of land subject to Afforestation and Reforestation.
- (2) Geographical location refers to the boundaries of the areas that encompass units of land subject to Deforestation.
- (3) Geographical location refers to the boundaries of the areas that encompass land subject to Forest Management, if elected.
- (4) Geographical location refers to the boundaries of the areas that encompass land subject to Cropland Management, if elected.
- (5) Geographical location refers to the boundaries of the areas that encompass land subject to Grazing Land Management, if elected.
- (6) Geographical location refers to the boundaries of the areas that encompass land subject to Revegetation, if elected.
- (7) For each activity, activity data should be selected between area burned (AB) or biomass burned (BB). Units will be ha for area burned, and kg dm for biomass burned. The implied emission factor will refer to the selected activity data with an automatic change in the units.
- (8) If CO₂ emissions from biomass burning are not already included in Tables 5(KP-I)A.1.1 to 5(KP-I)B.4, they should be reported here. This also includes the carbon component of CH₄. This should be clearly documented in the documentation box and in the NIR. Parties that include all carbon stock changes in the carbon stock tables (5(KP-I)A.1.1 to 5(KP-I)B.4) should report IE (included elsewhere) in the CO₂ column.
- (9) Parties should report controlled/prescribed burning and wildfires emissions separately, where appropriate.
- (10) Burning of agricultural residues is included in the Agriculture sector.
- (11) Greenhouse gas emissions from prescribed savannah burning are reported in the Agriculture sector.

INFORMATION TABLE ON ACCOUNTING FOR ACTIVITIES UNDER ARTICLES 3.3 AND 3.4 OF THE KYOTO PROTOCOL

Commitment period accounting
 Annual accounting

Country
 Inventory Year
 Submission

Number of the reported year in the commitment period:

| GREENHOUSE GAS SOURCE AND SINK ACTIVITIES | BY ⁽⁵⁾ | Net emissions/removals ⁽¹⁾ | | | | | | Accounting Parameters ⁽⁷⁾ | Accounting Quantity ⁽⁸⁾ |
|--|-------------------|---------------------------------------|------|------|------|------|----------------------|--------------------------------------|------------------------------------|
| | | 2008 | 2009 | 2010 | 2011 | 2012 | Total ⁽⁶⁾ | | |
| (Gg CO ₂ equivalent) | | | | | | | | | |
| A. Article 3.3 activities | | | | | | | | | |
| A.1. Afforestation and Reforestation | | | | | | | | | |
| A.1.1. Units of land not harvested since the beginning of the commitment period ⁽²⁾ | | | | | | | | | |
| A.1.2. Units of land harvested since the beginning of the commitment period ⁽²⁾ | | | | | | | | | |
| <i>[specify identification code]</i> | | | | | | | | | |
| A.2. Deforestation | | | | | | | | | |
| B. Article 3.4 activities | | | | | | | | | |
| B.1. Forest Management (if elected) | | | | | | | | | |
| 3.3 offset ⁽³⁾ | | | | | | | | | |
| FM cap ⁽⁴⁾ | | | | | | | | | |
| B.2. Cropland Management (if elected) | | | | | | | | | |
| B.3. Grazing Land Management (if elected) | | | | | | | | | |
| B.4. Revegetation (if elected) | | | | | | | | | |

⁽¹⁾ All values are reported in table 5(KP) of the CRF for the relevant inventory year as reported in the current submission and are automatically entered in this table.

⁽²⁾ In accordance with paragraph 4 of the annex to decision 16/CMP.1, debits resulting from harvesting during the first commitment period following Afforestation and Reforestation since 1990 shall not be greater than credits accounted for on that unit of land.

⁽³⁾ In accordance with paragraph 10 of the annex to decision 16/CMP.1, a Party included in Annex I that incurs a net source of emissions under the provisions of Article 3.3, may account for anthropogenic greenhouse gas emissions by sources and removals by sinks in areas under forest management under Article 3.4, up to a level that is equal to the net source of emissions under the provisions of Article 3.3, but not greater than 9.0 megatonnes of carbon times five, if the total anthropogenic greenhouse gas emissions by sources and removals by sinks in the managed forest since 1990 are equal to, or larger than, the net source of emissions incurred under Article 3.3.

⁽⁴⁾ In accordance with paragraph 11 of the annex to decision 16/CMP.1, additions to and subtractions from the assigned amount of a Party resulting from forest management under Article 3.4, after the application of paragraph 10 of the annex to decision 16/CMP.1 and resulting from forest management project activities undertaken under Article 6, shall not exceed the value inscribed in the appendix of the annex to decision 16/CMP.1, multiplied by five.

⁽⁵⁾ Net emissions and removals in the Party's base year, as established by decision 9/CP.2.

⁽⁶⁾ Cumulative net emissions and removals for all years of the commitment period reported in the current submission.

⁽⁷⁾ The values in the cells "3.3 offset" and "FM cap" are absolute values.

⁽⁸⁾ The accounting quantity is the total quantity of units to be added to or subtracted from a Party's assigned amount for a particular activity in accordance with the provisions of Article 7.4 of the Kyoto Protocol.
