



ОРГАНИЗАЦИЯ
ОБЪЕДИНЕННЫХ НАЦИЙ



РАМОЧНАЯ КОНВЕНЦИЯ
ОБ ИЗМЕНЕНИИ КЛИМАТА

Distr.
GENERAL

FCCC/CP/2005/5/Add.2
30 March 2006

RUSSIAN
Original: ENGLISH

КОНФЕРЕНЦИЯ СТОРОН

Доклад Конференции Сторон о работе ее одиннадцатой сессии, состоявшейся в
Монреале 28 ноября - 10 декабря 2005 года

Добавление

Часть вторая: Меры, принятые Конференцией Сторон на ее одиннадцатой сессии

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Решение 14/CP.11

Таблицы общей формы докладов для землепользования, изменений в землепользовании и лесного хозяйства

Конференция Сторон,

ссылаясь на пункт 1 статьи 4, пункт 2 статьи 10 и пункт 1 статьи 12 Конвенции,

ссылаясь также на свои решения 18/CP.8 и 13/CP.9,

1. *принимает* таблицы общей формы докладов и примечания к ним, содержащиеся в приложении к настоящему решению, для цели представления годовой кадастровой информации о землепользовании, изменениях в землепользовании и лесном хозяйстве;
2. *постановляет*, что каждой Стороне, включенной в приложение I к Конвенции, следует пользоваться этими таблицами для цели составления годовых кадастров, подлежащих представлению в 2007 году и последующие годы;
3. *порукает* секретариату включить эти таблицы и замечания к ним, а также технические модификации, вытекающие из решения 13/CP.9, в "Руководящие принципы для подготовки национальных сообщений Сторон, включенных в приложение I к Конвенции, часть I: руководящие принципы РКИКООН для представления информации о годовых кадастрах", принятые решением 18/CP.8, и подготовить до двадцать пятой сессии ВОКНТА (ноябрь 2006 года) единый документ, содержащий обновленный вариант руководящих принципов РКИКООН для представления информации о годовых кадастрах.

ПРИЛОЖЕНИЕ

Таблицы общей формы докладов и замечания к ним

Замечания по общей форме докладов

1. Общая форма докладов (ОФД) является неотъемлемой частью представляемой информации о национальных кадастрах. Она призвана обеспечить представление Сторонами, включенными в приложение I к Конвенции (Сторонами, включенными в приложение I), количественных данных в стандартном формате и облегчить процесс сопоставления кадастровых данных между Сторонами, включенными в приложение I. Любую подробную информацию нечисленного характера следует включать в национальные доклады о кадастрах (НДК).
2. Представляемая в ОФД информация имеет целью способствовать сопоставимости и транспарентности кадастров за счет облегчения, среди прочего, перекрестных сопоставлений данных о деятельности и вмененных коэффициентов выбросов (ВКВ) или факторов изменений в накоплениях углерода в Сторонах, включенных в приложение I, и менее трудоемкого выявления возможных ошибок, неправильных толкований и пропусков в кадастрах.
3. Как указывается в этих руководящих принципах для представления докладов¹, ОФД состоит из резюме и таблиц секторальных данных из *Пересмотренных руководящих принципов МГЭИК 1996 года для национальных кадастров парниковых газов* (Руководящие принципы МГЭИК) плюс вновь разработанных секторальных таблиц справочных данных и других таблиц, которые отвечают требованиям Руководящих принципов МГЭИК и *Руководящих указаний МГЭИК по эффективной практике и учету факторов неопределенности в национальных кадастрах парниковых газов*.
4. В некоторых секторальных таблицах справочных данных предусмотрен расчет ВКВ или факторов изменений в накоплениях углерода. Они представляют собой "нисходящие" соотношения между оценкой выбросов или абсорбции и агрегированными данными о деятельности той или иной Стороны, включенной в приложение I. ВКВ или факторы изменений в накоплениях углерода предназначены исключительно для целей

¹ Замечания по общей форме докладов станут частью "Руководящих принципов для подготовки национальных сообщений Сторон, включенных в приложение I к Конвенции, часть I: руководящие принципы РКИКООН для представления информации о годовых кадастрах", содержащихся в документе FCCC/SBSTA/2004/8. Любые ссылки на "руководящие принципы" в настоящих замечаниях означают вышеупомянутые руководящие принципы.

сопоставления. Они не обязательно являются коэффициентами выбросов/абсорбции, обычно используемыми при первоначальной оценке выбросов, если, конечно, не имело место простое умножение на основе тех же агрегированных данных о деятельности, которые использовались для расчета ВКВ или факторов изменений в накоплениях углерода.

5. В соответствии с Руководящими принципами МГЭИК такие позиции, как оценки выбросов в результате использования бункерного топлива при международных морских и воздушных перевозках, выбросов CO₂ из биомассы и выбросов вследствие многосторонней деятельности, должны фигурировать в соответствующих таблицах, а не включаться в национальные совокупные данные.

6. Сторонам, включенным в приложение I, следует использовать рамки для документации в нижней части таблиц для указания конкретных ссылок на соответствующие разделы НДК, где должна содержаться подробная информация для данного сектора/категории.

7. Сторонам, включенным в приложение I, следует заполнять все клетки, предназначенные для оценок выбросов или абсорбции, данных о деятельности или факторов выбросов. В соответствии с указанием, содержащимся в пункте 28 Руководящих принципов, в тех случаях, когда данные не вносятся, следует использовать условные обозначения.

8. В секторальных таблицах справочных данных ниже категории источников "Other" оставленная пустая строка означает, что могут быть добавлены специфические для данной страны категории источников. Эти категории будут автоматически включаться в таблицы секторальных данных.

9. Сторонам, включенным в приложение I, следует вносить данные в рамки для дополнительной информации. Когда такая информация не требуется с учетом методологического уровня, который используется Стороной, включенной в приложение I, в соответствующие клетки следует помещать условное обозначение "NA" ("неприменимо").

10. Ни порядок следования, ни название колонок, строк или клеток в таблицах не должны изменяться, так как это осложнит сбор данных. Любые добавления к существующей дезагрегации источников выбросов и поглотителей, если в этом есть необходимость, должны включаться в категорию "Other".

11. Для упрощения структуры таблиц и четкого указания конкретных требований в отношении представления данных по каждой таблице чистыми были оставлены лишь те клетки, в которые Сторонам, включенным в приложение I, следует вносить данные. Слегка затемненные клетки будут заполняться программой, которую разработает секретариат. Однако Сторонам, включенным в приложение I, которые предпочитают не использовать программное обеспечение для заполнения ОФД, придется вносить данные и в эти клетки.
12. Как и в существующей ОФД, клетки с темным затемнением не должны содержать никакой информации.
13. В таблицах базовых данных по сектору землепользования, изменений в землепользовании и лесного хозяйства (ЗИЗЛХ) данные об увеличении и о сокращении углерода следует представлять отдельно, за исключением тех случаев, когда по техническим причинам в силу используемых методов невозможно представить раздельно информацию об увеличении и сокращении.
14. В соответствии с пунктом 18 этих руководящих принципов, каждая Сторона, включенная в приложение I, представляет национальный кадастр антропогенных выбросов из источников и абсорбции поглотителями всех парниковых газов, не регулируемых Монреальским протоколом.
15. В соответствии с Пересмотренными руководящими принципами МГЭИК, для целей представления докладов показатели по абсорбции всегда даются с отрицательным знаком "минус" (-), а по выбросам - с положительным знаком "плюс" (+). Абсолютные изменения в накоплениях углерода пересчитываются в CO₂ путем умножения C на фактор 44/12 и изменения показателя на абсолютную абсорбцию CO₂ со знаком "минус" (-), или абсолютный выброс CO₂ со знаком "плюс" (+).

**Таблицы общей формы докладов для землепользования, изменений
в землепользовании и лесного хозяйства и связанные с ними
таблицы (таблицы резюме 2, таблица 8 а) (перерасчеты)
и таблица 10 (тенденции))**

TABLE 5 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY
(Sheet 1 of 1)

Year
Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/ removals ^{(1), (2)}	CH ₄ ⁽²⁾	N ₂ O ⁽²⁾	NO _x	CO	NM VOC
	(Gg)					
Total Land-Use Categories						
A. Forest Land						
1. Forest Land remaining Forest Land						
2. Land converted to Forest Land						
B. Cropland						
1. Cropland remaining Cropland						
2. Land converted to Cropland						
C. Grassland						
1. Grassland remaining Grassland						
2. Land converted to Grassland						
D. Wetlands						
1. Wetlands remaining Wetlands ⁽³⁾						
2. Land converted to Wetlands						
E. Settlements						
1. Settlements remaining Settlements ⁽³⁾						
2. Land converted to Settlements						
F. Other Land						
1. Other Land remaining Other Land ⁽⁴⁾						
2. Land converted to Other Land						
G. Other (please specify)⁽⁵⁾						
<i>Harvested Wood Products⁽⁶⁾</i>						
Information items⁽⁷⁾						
Forest Land converted to other Land-Use Categories						
Grassland converted to other Land-Use Categories						

- ⁽¹⁾ According to the Revised 1996 IPCC Guidelines, for the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).
- ⁽²⁾ For each land-use category and sub-category, this table sums net CO₂ emissions and removals shown in tables 5.A to 5.F, and the CO₂, CH₄ and N₂O emissions showing in tables 5(I) to 5(V).
- ⁽³⁾ Parties may decide not to prepare estimates for these categories contained in appendices 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- ⁽⁴⁾ This land-use category is to allow the total of identified land area to match the national area.
- ⁽⁵⁾ The total for category 5.G Other includes items specified only under category 5.G in this table as well as sources and sinks specified in category 5.G in tables 5(I) to 5(V).
- ⁽⁶⁾ Parties may decide not to prepare estimates for this category contained in appendix 3a.1 of the IPCC good practice guidance for LULUCF, although they may do so if they wish and report in this row.
- ⁽⁷⁾ These items are listed for information only and will not be added to the totals, because they are already included in subcategories 5.A.2 to 5.F.2.

Documentation box:

- Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.
- If estimates are reported under 5.G Other, use this documentation box to provide information regarding activities covered under this category and to provide reference to the section in the NIR where background information can be found.

TABLE 5.A SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Forest Land

(Sheet 1 of 1)

Year

Submission

Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED CARBON-STOCK-CHANGE FACTORS						CHANGES IN CARBON STOCK						Net CO ₂ emissions/removals ^{(7) (10)}
Land-Use Category	Sub-division ⁽¹⁾	Area ⁽⁶⁾ (kha)	Area of organic soil ⁽⁶⁾ (kha)	Carbon stock change in living biomass per area ^{(2) (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾		Carbon stock change in living biomass ^{(2) (3)}			Net carbon stock change in dead organic matter ⁽³⁾	Net carbon stock change in soils ^{(3) (9)}		
				Gains	Losses	Net change		Mineral soils ⁽⁸⁾	Organic soils	Gains	Losses	Net change		Mineral soils	Organic soils ⁽⁵⁾	
				(Mg C/ha)						(Gg C)						
A. Total Forest Land																
1. Forest Land remaining Forest Land																
2. Land converted to Forest Land ⁽⁴⁾																
2.1 Cropland converted to Forest Land																
2.2 Grassland converted to Forest Land																
2.3 Wetlands converted to Forest Land																
2.4 Settlements converted to Forest Land																
2.5 Other Land converted to Forest Land																

- ⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone or national land classification.
- ⁽²⁾ 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.
- ⁽³⁾ The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- ⁽⁴⁾ A Party may report aggregate estimates for all conversions of land to forest land when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for grassland conversion should be provided in table 5 as an information item.
- ⁽⁵⁾ The value reported for organic soils is estimated as a flux. For consistency with other entries in this column, these fluxes should be expressed in the unit required in this column, i.e. in Gg C.
- ⁽⁶⁾ The total area of the subcategories, in accordance with the sub-division used, should be entered here. For Lands converted to Forest Lands report the cumulative area remaining in the category in the reporting year.
- ⁽⁷⁾ 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 (+). Note that carbon stock changes in a single pool are not necessarily equal to emissions or removals, because some carbon stock changes result from carbon transfers among pools rather than exchanges with the atmosphere.
- ⁽⁸⁾ Implied carbon-stock-change factors for mineral soils are calculated by dividing the C stock change estimate for mineral soil by the difference between the area and the area of organic soil.
- ⁽⁹⁾ When Parties are estimating fluxes for organic soils but cannot separate these fluxes from mineral soils, these fluxes should be reported under mineral soils.
- ⁽¹⁰⁾ Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions directly in this column and use notation keys in the stock change columns.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5.B SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Year

Cropland

Submission

(Sheet 1 of 1)

Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED CARBON-STOCK-CHANGE FACTORS						CHANGES IN CARBON STOCK						Net CO ₂ emissions/removals ^{(9) (12)}
Land-Use Category	Sub-division ⁽¹⁾	Area ⁽⁸⁾ (kha)	Area of organic soil (kha) ⁽⁸⁾	Carbon stock change in living biomass per area ^{(2) (3)}			Net carbon stock change in dead organic matter per area ⁽³⁾	Net carbon stock change in soils per area ⁽³⁾		Carbon stock change in living biomass ^{(2), (3), (4)}			Net carbon stock change in dead organic matter ^{(3) (5)}	Net carbon stock change in soils ⁽³⁾⁽¹¹⁾		
				Gains	Losses	Net change		Mineral soils ⁽¹⁰⁾	Organic soils	Gains	Losses	Net change		Mineral soils	Organic soils ⁽⁷⁾	
				(Mg C/ha)						(Gg C)						
B. Total Cropland																
1. Cropland remaining Cropland																
2. Land converted to Cropland ⁽⁶⁾																
2.1 Forest Land converted to Cropland																
2.2 Grassland converted to Cropland																
2.3 Wetlands converted to Cropland																
2.4 Settlements converted to Cropland																
2.5 Other Land converted to Cropland																

- ⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone or national land classification.
- ⁽²⁾ 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.
- ⁽³⁾ The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- ⁽⁴⁾ For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.
- ⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.
- ⁽⁶⁾ A Party may report aggregate estimates for all land conversions to cropland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest land and grassland conversion should be provided in table 5 as an information item.
- ⁽⁷⁾ The value reported for organic soils is estimated as a flux. For consistency with other entries in this column, these fluxes should be expressed in the unit required in this column, i.e. in Gg C.
- ⁽⁸⁾ The total area of the subcategories, in accordance with the sub-division used, should be entered here. For Lands converted to Croplands report the cumulative area remaining in the category in the reporting year.
- ⁽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 (+). Note that carbon stock changes in a single pool are not necessarily equal to emissions or removals, because some carbon stock changes result from carbon transfers among pools rather than exchanges with the atmosphere.
- ⁽¹⁰⁾ Implied carbon-stock-change factors for mineral soils are calculated by dividing the C stock change estimate for mineral soil by the difference between the area and the area of organic soil.
- ⁽¹¹⁾ When Parties are estimating fluxes for organic soils but cannot separate these fluxes from mineral soils, these fluxes should be reported under mineral soils.
- ⁽¹²⁾ Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions directly in this column and use notation keys in the stock change columns.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

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TABLE 5.C SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Year
Submission
Country

Grassland

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED CARBON-STOCK-CHANGE FACTORS					CHANGES IN CARBON STOCK					Net CO ₂ emissions/removals ^{(9) (12)}		
Land-Use Category	Sub-division ⁽¹⁾	Area ⁽⁸⁾ (kha)	Area of organic soil (kha) ⁽⁸⁾	Carbon stock change in living biomass per area ^{(2) (3)}			Net carbon stock change in dead organic matter per area ⁽²⁾	Net carbon stock change in soils per area ⁽²⁾		Carbon stock change in living biomass ^{(2) (3) (4)}			Net carbon stock change in dead organic matter ^{(2) (5)}		Net carbon stock change in soils ^{(2) (11)}	
				Gains	Losses	Net change		Mineral soils ⁽¹⁰⁾	Organic soils	Gains	Losses	Net change			Mineral soils	Organic soils ⁽⁷⁾
				(Mg C/ha)								(Gg C)				
C. Total Grassland																
1. Grassland remaining Grassland																
2. Land converted to Grassland ⁽⁶⁾																
2.1 Forest Land converted to Grassland																
2.2 Cropland converted to Grassland																
2.3 Wetlands converted to Grassland																
2.4 Settlements converted to Grassland																
2.5 Other Land converted to Grassland																

- ⁽¹⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone or national land classification.
- ⁽²⁾ The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- ⁽³⁾ 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.
- ⁽⁴⁾ For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.
- ⁽⁵⁾ No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.
- ⁽⁶⁾ A Party may report aggregate estimates for all land conversions to grassland, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest land conversion should be provided in table 5 as an information item.
- ⁽⁷⁾ The value reported for organic soils is estimated as a flux. For consistency with other entries in this column, these fluxes should be expressed in the unit required in this column, i.e. in Gg C.
- ⁽⁸⁾ The total area of the subcategories, in accordance with the sub-division used, should be entered here. For lands converted to Grasslands report the cumulative area remaining in the category in the reporting year.
- ⁽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 (+). Note that carbon stock changes in a single pool are not necessarily equal to emissions removals, because some carbon stock changes result from carbon transfers among pools rather than exchanges with the atmosphere.
- ⁽¹⁰⁾ Implied carbon-stock-change factors for mineral soils are calculated by dividing the C stock change estimate for mineral soil by the difference between the area and the area of organic soil.
- ⁽¹¹⁾ When Parties are estimating fluxes for organic soils but cannot separate these fluxes from mineral soils, these fluxes should be reported under mineral soils.
- ⁽¹²⁾ Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions directly in this column and use notation keys in the stock change columns.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5.D SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Year

Wetlands

Submission

(Sheet 1 of 1)

Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED CARBON-STOCK-CHANGE FACTORS					CHANGES IN CARBON STOCK					Net CO ₂ emissions/removals ⁽⁷⁾ (8)
Land-Use Category	Sub-division ⁽²⁾	Area ⁽⁶⁾ (kha)	Carbon stock change in living biomass per area ^{(3) (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3) (4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾	
			Gains	Losses	Net change			Gains	Losses	Net change			
			(Mg C/ha)					(Gg C)					
D. Total Wetlands													
1. Wetlands remaining Wetlands ⁽¹⁾													
2. Land converted to Wetlands ⁽⁵⁾													
2.1 Forest Land converted to Wetlands													
2.2 Cropland converted to Wetlands													
2.3 Grassland converted to Wetlands													
2.4 Settlements converted to Wetlands													
2.5 Other Land converted to Wetlands													

- (1) Parties may decide not to prepare estimates for this category contained in appendix 3a.3 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- (2) Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone or national land classification.
- (3) 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.
- (4) The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- (5) A Party may report aggregate estimates for all land conversions to wetlands, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest land and grassland conversion should be provided in table 5 as an information item.
- (6) The total area of the subcategories, in accordance with the sub-division used, should be entered here. For lands converted to Wetlands report the cumulative area remaining in the category in the reporting year.
- (7) 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 (+). Note that carbon stock changes in a single pool are not necessarily equal to emissions or removals, because some carbon stock changes result from carbon transfers among pools rather than exchanges with the atmosphere.
- (8) Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions directly in this column and use notation keys in the stock change columns.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5.E SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Settlements

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED CARBON-STOCK-CHANGE FACTORS					CHANGES IN CARBON STOCK					Net CO ₂ emissions/removals ⁽⁸⁾
Land-Use Category	Sub-division ⁽²⁾	Area ⁽⁷⁾ (kha)	Carbon stock change in living biomass per area ^{(3), (4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3), (4) (5)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾	
			Gains	Losses	Net change			Gains	Losses	Net change			
			(Mg C/ha)					(Gg C)					
E. Total Settlements													
1. Settlements remaining Settlements ⁽¹⁾													
2. Land converted to Settlements ⁽⁶⁾													
2.1 Forest Land converted to Settlements													
2.2 Cropland converted to Settlements													
2.3 Grassland converted to Settlements													
2.4 Wetlands converted to Settlements													
2.5 Other Land converted to Settlements													

- ⁽¹⁾ Parties may decide not to prepare estimates for this category contained in appendix 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- ⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone or national land classification.
- ⁽³⁾ 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.
- ⁽⁴⁾ The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- ⁽⁵⁾ For category 5.E.1 Settlements remaining Settlements this column only includes changes in perennial woody biomass.
- ⁽⁶⁾ A Party may report aggregate estimates for all land conversions to settlements, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest land and grassland conversion should be provided in table 5 as an information item.
- ⁽⁷⁾ The total area of the subcategories, in accordance with the sub-division used, should be entered here. For lands converted to Settlements report the cumulative area remaining in the category in the reporting year.
- ⁽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 (+). Note that carbon stock changes in a single pool are not necessarily equal to emissions or removals, because some carbon stock changes result from carbon transfers among pools rather than exchanges with the atmosphere.
- ⁽⁹⁾ Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions directly in this column and use notation keys in the stock change columns.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5.F SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Other land

(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED CARBON-STOCK-CHANGE FACTORS					CHANGES IN CARBON STOCK					Net CO ₂ emissions/removals ⁽⁷⁾ (8)
Land-Use Category	Sub-division ⁽²⁾	Area ⁽⁶⁾ (kha)	Carbon stock change in living biomass per area ^{(3),(4)}			Net carbon stock change in dead organic matter per area ⁽⁴⁾	Net carbon stock change in soils per area ⁽⁴⁾	Carbon stock change in living biomass ^{(3),(4)}			Net carbon stock change in dead organic matter ⁽⁴⁾	Net carbon stock change in soils ⁽⁴⁾	
			Gains	Losses	Net change			Gains	Losses	Net change			
			(Mg C/ha)					(Gg C)					
F. Total Other Land													
1. Other Land remaining Other Land ⁽¹⁾													
2. Land converted to Other Land ⁽⁵⁾													
2.1 Forest Land converted to Other Land													
2.2 Cropland converted to Other Land													
2.3 Grassland converted to Other Land													
2.4 Wetlands converted to Other Land													
2.5 Settlements converted to Other Land													

- ⁽¹⁾ This land-use category is to allow the total of identified land area to match the national area.
- ⁽²⁾ Land categories may be further divided according to climate zone, management system, soil type, vegetation type, tree species, ecological zone or national land classification.
- ⁽³⁾ 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.
- ⁽⁴⁾ The signs for estimates of gains in carbon stocks are positive (+) and of losses in carbon stocks are negative (-).
- ⁽⁵⁾ A Party may report aggregate estimates for all land conversions to other land, when data are not available to report them separately. A Party should specify in the documentation box which types of land conversion are included. Separate estimates for forest land and grassland conversion should be provided in table 5 as an information item.
- ⁽⁶⁾ The total area of the subcategories, in accordance with the sub-division used, should be entered here. For lands converted to Other land report the cumulative area remaining in the category in the reporting year.
- ⁽⁷⁾ 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 (+). Note that carbon stock changes in a single pool are not necessarily equal to emissions or removals, because some carbon stock changes result from carbon transfers among pools rather than exchanges with the atmosphere.
- ⁽⁸⁾ Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions directly in this column and use notation keys in the stock change columns.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (I) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY
Direct N₂O emissions from N fertilization⁽¹⁾ of Forest Land and Other
 (Sheet 1 of 1)

Year
 Submission
 Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS ⁽⁶⁾
Land-Use Category ⁽²⁾	Total amount of fertilizer applied (Gg N/yr)	N ₂ O-N emissions per unit of fertilizer (kg N ₂ O-N/kg N) ⁽³⁾	N ₂ O (Gg)
Total for all Land Use Categories			
A. Forest Land ^{(4), (5)}			
1. Forest Land remaining Forest Land			
2. Land converted to Forest Land			
G. Other (please specify)			

⁽¹⁾ Direct N₂O emissions from fertilization are estimated using equations 3.2.17 and 3.2.18 of the IPCC good practice guidance for LULUCF based on the amounts of fertilizers applied to forest land.

⁽²⁾ N₂O emissions from N fertilization of cropland and grassland are reported in the Agriculture sector; therefore only forest land is included in this table.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N₂O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

⁽⁵⁾ A Party may report aggregate estimates for all N fertilization on forest land in the category Forest Land remaining Forest Land when data are not available to report Forest Land remaining Forest Land and Land converted to Forest Land separately.

⁽⁶⁾ Emissions are reported with a positive sign.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (II) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Year

Non-CO₂ emissions from drainage of soils and wetlands (1)
(Sheet 1 of 1)

Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS		EMISSIONS ⁽⁵⁾	
Land-Use Category ⁽²⁾	Sub-division ⁽³⁾	Area	N ₂ O-N per area ⁽⁴⁾	CH ₄ per area	N ₂ O	CH ₄
		(kha)	(kg N ₂ O-N/ha)	(kg CH ₄ /ha)	(Gg)	
Total all Land-Use Categories						
A. Forest Land ⁽⁶⁾						
	Organic Soil					
	Mineral Soil					
D. Wetlands						
	Peatland ⁽⁷⁾					
	Flooded Lands ⁽⁷⁾					
G. Other (please specify)						

⁽¹⁾ Parties may decide not to prepare estimates for these categories contained in appendices 3a.2 and 3a.3 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.

⁽²⁾ N₂O emissions from drained cropland and grassland soils are covered in the Agriculture tables of the CRF under Cultivation of Histosols.

⁽³⁾ A Party should report further disaggregations of drained soils corresponding to the methods used. Tier 1 disaggregates soils into "nutrient rich" and "nutrient poor" areas, whereas higher-tier methods can further disaggregate into different peatland types, soil fertility or tree species.

⁽⁴⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁵⁾ Emissions are reported with a positive sign.

⁽⁶⁾ In table 5, these emissions will be added to 5.A.1 Forest Land remaining Forest Land.

⁽⁷⁾ In table 5, these emissions will be added to 5.D.2 Land converted to Wetlands.

Documentation box:

Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (III) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY
N₂O emissions from disturbance associated with land-use conversion to cropland ⁽¹⁾
 (Sheet 1 of 1)

Year
 Submission
 Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS ⁽⁷⁾
Land-Use Category ⁽²⁾	Land area converted (kha)	N ₂ O-N emissions per area converted ⁽³⁾ (kg N ₂ O-N/ha)	N ₂ O (Gg)
Total all Land-Use Categories ⁽⁴⁾			
B. Cropland			
2. Lands converted to Cropland ⁽⁵⁾			
Organic Soils			
Mineral Soils			
2.1 Forest Land converted to Cropland			
Organic Soils			
Mineral Soils			
2.2 Grassland converted to Cropland			
Organic Soils			
Mineral Soils			
2.3 Wetlands converted to Cropland ⁽⁶⁾			
Organic Soils			
Mineral Soils			
2.5 Other Land converted to Cropland			
Organic Soils			
Mineral Soils			
G. Other (please specify)			

⁽¹⁾ Methodologies for N₂O emissions from disturbance associated with land-use conversion are based on equations 3.3.14 and 3.3.15 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.

⁽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 remaining Cropland are included in the Agriculture sector of the good practice guidance. The good practice guidance provides methodologies only for mineral soils.

⁽³⁾ In the calculation of the implied emission factor, N₂O emissions are converted to N₂O-N by multiplying by 28/44.

⁽⁴⁾ Parties can separate between organic and mineral soils, if they have data available.

⁽⁵⁾ If activity data cannot be disaggregated to all initial land uses, Parties may report some initial land uses aggregated under Other Land converted to Cropland (indicate in the documentation box what this category includes).

⁽⁶⁾ Parties should avoid double counting with N₂O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

⁽⁷⁾ Emissions are reported with a positive sign.

Documentation box:
 Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF Sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

Year
 Submission
 Country

TABLE 5 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY
CO₂ emissions from agricultural lime application ⁽¹⁾
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS ⁽⁶⁾
Land-Use Category	Total amount of lime applied (Mg/yr)	CO ₂ -C per unit of lime ⁽⁷⁾ (Mg CO ₂ -C /Mg)	CO ₂ (Gg)
Total all Land-Use Categories ^{(2), (3), (4)}			
B. Cropland ^{(4) (8)}			
Limestone CaCO ₃			
Dolomite CaMg(CO ₃) ₂			
C. Grassland ⁽⁴⁾⁽⁹⁾			
Limestone CaCO ₃			
Dolomite CaMg(CO ₃) ₂			
G. Other (please specify) ^(4, 5)			

- ⁽¹⁾ CO₂ emissions from agricultural lime application are addressed in equation 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.
- ⁽²⁾ If Parties are not able to separate liming application for different land-use categories, they should include liming for all land-use categories in the category 5.G Other.
- ⁽³⁾ Parties that are able to provide data for lime application to forest land should provide this information under 5.G Other and specify in the documentation box that forest land application is included in this category.
- ⁽⁴⁾ A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.
- ⁽⁵⁾ If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.
- ⁽⁶⁾ Emissions are reported with a positive sign.
- ⁽⁷⁾ The implied emission factor is expressed in unit of carbon to facilitate comparison with published emission factors
- ⁽⁸⁾ In table 5, these CO₂ emissions will be added to 5.B.1 Cropland remaining Cropland.
- ⁽⁹⁾ In table 5, these CO₂ emissions will be added to 5.C.1 Grassland remaining Grassland.

Documentation box: Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

TABLE 5 (V) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY

Biomass Burning ⁽¹⁾

(Sheet 1 of 1)

Year
Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS ⁽⁹⁾		
	Description ⁽³⁾	Unit	Values	CO ₂	CH ₄	N ₂ O	CO ₂ ⁽⁴⁾	CH ₄	N ₂ O
Land-Use Category ⁽²⁾	(ha or kg dm)			(Mg/activity data unit)			(Gg)		
Total for Land-Use Categories									
A. Forest Land									
1. Forest land remaining Forest Land									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
2. Land converted to Forest Land									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
B. Cropland									
1. Cropland remaining Cropland ⁽⁵⁾									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
2. Land converted to Cropland									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
2.1. Forest Land converted to Cropland									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
C. Grassland									
1. Grassland remaining grassland ⁽⁶⁾									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
2. Land converted to Grassland									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
2.1. Forest Land converted to Grassland									
<i>Controlled Burning</i>									
<i>Wildfires</i>									

D. Wetlands									
1. Wetlands remaining Wetlands ⁽⁷⁾									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
2. Land converted to Wetlands									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
2.1. Forest Land converted to Wetlands									
<i>Controlled Burning</i>									
<i>Wildfires</i>									
E. Settlements ⁽⁷⁾									
F. Other Land ⁽⁸⁾									
G. Other (please specify)									

- ⁽¹⁾ Methodological guidance on burning can be found in sections 3.2.1.4 and 3.4.1.3 of the IPCC good practice guidance for LULUCF.
- ⁽²⁾ Parties should report both controlled/prescribed burning and wildfires emissions, where appropriate, in a separate manner.
- ⁽³⁾ For each category activity data should be selected between area burned or biomass burned. Units for area will be ha and for biomass burned kg dm. The implied emission factor will refer to the selected activity data with an automatic change in the units.
- ⁽⁴⁾ If CO₂ emissions from biomass burning are not already included in tables 5.A - 5.F, they should be reported here. This should be clearly documented in the documentation box and in the NIR. Double counting should be avoided. Parties that include all carbon stock changes in the carbon stock tables (5.A, 5.B, 5.C, 5.D, 5.E and 5.F), should report IE (included elsewhere) in this column.
- ⁽⁵⁾ In-situ above-ground woody biomass burning is reported here. Agricultural residue burning is reported in the Agriculture sector
- ⁽⁶⁾ Includes only emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).
- ⁽⁷⁾ Parties may decide not to prepare estimates for these categories contained in appendices 3a.2, 3a.3 and 3a.4 of the IPCC good practice guidance for LULUCF, although they may do so if they wish.
- ⁽⁸⁾ This land-use category is to allow the total of identified land area to match the national area.
- ⁽⁹⁾ Emissions are reported with a positive sign.

Documentation box:
Parties should provide detailed explanations on the Land Use, Land-Use Change and Forestry sector in Chapter 7: Land Use, Land-Use Change and Forestry (CRF sector 5) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and/or further details are needed to understand the content of this table.

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
 (Sheet 1 of 1)

Year
 Submission
 Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs ⁽²⁾	PFCs ⁽²⁾	SF ₆ ⁽²⁾	Total
	CO ₂ equivalent (Gg)						
Total (Net Emissions)⁽¹⁾							
1. Energy							
A. Fuel Combustion (Sectoral Approach)							
1. Energy Industries							
2. Manufacturing Industries and Construction							
3. Transport							
4. Other Sectors							
5. Other							
B. Fugitive Emissions from Fuels							
1. Solid Fuels							
2. Oil and Natural Gas							
2. Industrial Processes							
A. Mineral Products							
B. Chemical Industry							
C. Metal Production							
D. Other Production							
E. Production of Halocarbons and SF ₆							
F. Consumption of Halocarbons and SF ₆ ⁽²⁾							
G. Other							
3. Solvent and Other Product Use							
4. Agriculture							
A. Enteric Fermentation							
B. Manure Management							
C. Rice Cultivation							
D. Agricultural Soils ⁽³⁾							
E. Prescribed Burning of Savannas							
F. Field Burning of Agricultural Residues							
G. Other							

5. Land Use, Land-Use Change and Forestry⁽¹⁾							
A. Forest Land							
B. Cropland							
C. Grassland							
D. Wetlands							
E. Settlements							
F. Other Land							
G. Other							
6. Waste							
A. Solid Waste Disposal on Land							
B. Waste-water Handling							
C. Waste Incineration							
D. Other							
7. Other (as specified in Summary I.A)							
Memo Items:⁽⁴⁾							
International Bunkers							
Aviation							
Marine							
Multilateral Operations							
CO₂ Emissions from Biomass							
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							

⁽¹⁾ For CO₂ from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽²⁾ Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

⁽³⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁴⁾ See footnote 8 to table Summary I.A.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

(Sheet 1 of 4) Recalculated year:

Year

Submission

Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂						CH ₄						N ₂ O					
	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾
	CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)		
Total National Emissions and Removals																		
1. Energy																		
1.A. Fuel Combustion Activities																		
1.A.1. Energy Industries																		
1.A.2. Manufacturing Industries and Construction																		
1.A.3. Transport																		
1.A.4. Other Sectors																		
1.A.5. Other																		
1.B. Fugitive Emissions from Fuels																		
1.B.1. Solid fuel																		
1.B.2. Oil and Natural Gas																		
2. Industrial Processes																		
2.A. Mineral Products																		
2.B. Chemical Industry																		
2.C. Metal Production																		
2.D. Other Production																		
2.G. Other																		

Note: All footnotes for this table are given at the end of the table on sheet 4.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

(Sheet 2 of 4) Recalculated year:

Year
Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂						CH ₄						N ₂ O					
	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾
	CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)		
Total National Emissions and Removals																		
3. Solvent and Other Product Use																		
4. Agriculture																		
4.A. Enteric Fermentation																		
4.B. Manure Management																		
4.C. Rice Cultivation																		
4.D. Agricultural Soils ⁽³⁾																		
4.E. Prescribed Burning of Savannas																		
4.F. Field Burning of Agricultural Residues																		
4.G. Other																		
5. Land Use, Land-Use Change and Forestry (net) ⁽⁴⁾																		
5.A. Forest Land																		
5.B. Cropland																		
5.C. Grassland																		
5.D. Wetlands																		
5.E. Settlements																		
5.F. Other Land																		
5.G. Other																		

Note: All footnotes for this table are given at the end of the table on sheet 4.

TABLE 8(a) RECALCULATION - RECALCULATED DATA
 (Sheet 3 of 4) Recalculated year:

Year
 Submission
 Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂						CH ₄						N ₂ O					
	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾
	CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)		
6. Waste																		
6.A. Solid Waste Disposal on Land																		
6.B. Waste-water Handling																		
6.C. Waste Incineration																		
6.D. Other																		
7. Other (as specified in Summary 1.A)																		
Memo Items:																		
International Bunkers																		
Multilateral Operations																		
CO ₂ Emissions from Biomass																		

Note: All footnotes for this table are given at the end of the table on sheet 4.

TABLE 8(a) RECALCULATION - RECALCULATED DATA
 (Sheet 4 of 4) **Recalculated year:**

Year
 Submission
 Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFCs						PFCs						SF ₆																									
	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽⁵⁾																				
	CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)			CO ₂ equivalent (Gg)			(%)																						
Total Actual Emissions																																						
2.C.3. Aluminium Production																																						
2.E. Production of Halocarbons and SF ₆																																						
2.F. Consumption of Halocarbons and SF ₆																																						
2.G. Other																																						
Potential Emissions from Consumption of HFCs/PFCs and SF ₆																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 15%;">Previous submission</th> <th style="width: 15%;">Latest submission</th> <th style="width: 15%;">Difference</th> <th style="width: 15%;">Difference⁽¹⁾</th> </tr> <tr> <td></td> <td colspan="3" style="text-align: center;">CO₂ equivalent (Gg)</td> <td style="text-align: center;">(%)</td> </tr> </thead> <tbody> <tr> <td>Total CO₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry</td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Total CO₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry</td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>																				Previous submission	Latest submission	Difference	Difference ⁽¹⁾		CO ₂ equivalent (Gg)			(%)	Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry					Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry				
	Previous submission	Latest submission	Difference	Difference ⁽¹⁾																																		
	CO ₂ equivalent (Gg)			(%)																																		
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry																																						
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry																																						

⁽¹⁾ Estimate the percentage change due to recalculation with respect to the previous submission (percentage change = $100 \times [(LS-PS)/PS]$, where LS = latest submission and PS = previous submission. All cases of recalculation of the estimate of the source/sink category should be addressed and explained in table 8(b).

⁽²⁾ Total emissions refer to total aggregate GHG emissions expressed in terms of CO₂ equivalent, excluding GHGs from the LULUCF sector. The impact of the recalculation on the total emissions is calculated as follows: impact of recalculation (%) = $100 \times [(source (LS) - source (PS))/total emissions (LS)]$, where LS = latest submission, PS = previous submission.

⁽³⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁴⁾ Net CO₂ emissions/removals to be reported.

⁽⁵⁾ Total emissions refer to total aggregate GHG emissions expressed in terms of CO₂ equivalent, including GHGs from the LULUCF sector. The impact of the recalculation on the total emissions is calculated as follows: impact of recalculation (%) = $100 \times [(source (LS) - source (PS))/total emissions (LS)]$, where LS = latest submission, PS = previous submission.

Documentation box:

Parties should provide detailed information on recalculations in Chapter 10: Recalculations and Improvements, and in the relevant sections of Chapters 3 to 9 (see section 2.5 of each of Chapters 3 - 9) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and further details are needed to understand the content of this table.

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION
 (Sheet 1 of 1)

Year
 Submission
 Country

Specify the sector and source/sink category ⁽¹⁾ where changes in estimates have occurred:	GHG	RECALCULATION DUE TO				
		CHANGES IN:			Addition/removal/reallocation of source/sink categories	Other changes in data (e.g. statistical or editorial changes, correction of errors)
		Methods ⁽²⁾	Emission factors ⁽²⁾	Activity data ⁽²⁾		

⁽¹⁾ Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table. Note that the source categories entered in this table should match those used in table 8(a).

⁽²⁾ Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in table 8(a). Include changes in the assumptions and coefficients in the Methods column.

Documentation box:
 Parties should provide the full information on recalculations in Chapter 10: Recalculations and Improvements, and in the relevant sections of Chapters 3 to 9 (see section 2.5 of each of Chapters 3 to 9) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and further details are needed to understand the content of this table. References should point particularly to the sections of the NIR in which justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory are reported.

TABLE 10 EMISSIONS TRENDS
CO₂
 (Sheet 1 of 5)

Year
 Submission
 Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
	(Gg)			%
1. Energy				
A. Fuel Combustion (Sectoral Approach)				
1. Energy Industries				
2. Manufacturing Industries and Construction				
3. Transport				
4. Other Sectors				
5. Other				
B. Fugitive Emissions from Fuels				
1. Solid Fuels				
2. Oil and Natural Gas				
2. Industrial Processes				
A. Mineral Products				
B. Chemical Industry				
C. Metal Production				
D. Other Production				
E. Production of Halocarbons and SF ₆				
F. Consumption of Halocarbons and SF ₆				
G. Other				
3. Solvent and Other Product Use				
4. Agriculture				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				
F. Field Burning of Agricultural Residues				
G. Other				

5. Land Use, Land-Use Change and Forestry⁽²⁾				
A. Forest Land				
B. Cropland				
C. Grassland				
D. Wetlands				
E. Settlements				
F. Other Land				
G. Other				
6. Waste				
A. Solid Waste Disposal on Land				
B. Waste-water Handling				
C. Waste Incineration				
D. Other				
7. Other (as specified in Summary I.A)				
Total CO₂ emissions including net CO₂ from LULUCF				
Total CO₂ emissions excluding net CO₂ from LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations				
CO₂ Emissions from Biomass				

Note: All footnotes for this table are given at the end of the table on sheet 5.

TABLE 10 EMISSIONS TRENDS
CH₄
 (Sheet 2 of 5)

Year
 Submission
 Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
	(Gg)			%
1. Energy				
A. Fuel Combustion (Sectoral Approach)				
1. Energy Industries				
2. Manufacturing Industries and Construction				
3. Transport				
4. Other Sectors				
5. Other				
B. Fugitive Emissions from Fuels				
1. Solid Fuels				
2. Oil and Natural Gas				
2. Industrial Processes				
A. Mineral Products				
B. Chemical Industry				
C. Metal Production				
D. Other Production				
E. Production of Halocarbons and SF ₆				
F. Consumption of Halocarbons and SF ₆				
G. Other				
3. Solvent and Other Product Use				
4. Agriculture				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				
F. Field Burning of Agricultural Residues				
G. Other				

5. Land Use, Land-Use Change and Forestry				
A. Forest Land				
B. Cropland				
C. Grassland				
D. Wetlands				
E. Settlements				
F. Other Land				
G. Other				
6. Waste				
A. Solid Waste Disposal on Land				
B. Waste-water Handling				
C. Waste Incineration				
D. Other				
7. Other (as specified in Summary 1.A)				
Total CH ₄ emissions including CH ₄ from LULUCF				
Total CH ₄ emissions excluding CH ₄ from LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations				
CO₂ Emissions from Biomass				

Note: All footnotes for this table are given at the end of the table on sheet 5.

TABLE 10 EMISSIONS TRENDS

N₂O
(Sheet 3 of 5)

Year
Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
	(Gg)			%
1. Energy				
A. Fuel Combustion (Sectoral Approach)				
1. Energy Industries				
2. Manufacturing Industries and Construction				
3. Transport				
4. Other Sectors				
5. Other				
B. Fugitive Emissions from Fuels				
1. Solid Fuels				
2. Oil and Natural Gas				
2. Industrial Processes				
A. Mineral Products				
B. Chemical Industry				
C. Metal Production				
D. Other Production				
E. Production of Halocarbons and SF ₆				
F. Consumption of Halocarbons and SF ₆				
G. Other				
3. Solvent and Other Product Use				
4. Agriculture				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				
F. Field Burning of Agricultural Residues				
G. Other				

5. Land Use, Land-Use Change and Forestry				
A. Forest Land				
B. Cropland				
C. Grassland				
D. Wetlands				
E. Settlements				
F. Other Land				
G. Other				
6. Waste				
A. Solid Waste Disposal on Land				
B. Waste-water Handling				
C. Waste Incineration				
D. Other				
7. Other (as specified in Summary I.A)				
Total N ₂ O emissions including N ₂ O from LULUCF				
Total N ₂ O emissions excluding N ₂ O from LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations				
CO₂ Emissions from Biomass				

Note: All footnotes for this table are given at the end of the table on sheet 5.

TABLE 10 EMISSION TRENDS

HFCs, PFCs and SF₆

(Sheet 4 of 5)

Year
Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
		(Gg)		%
Emissions of HFCs⁽³⁾ - (Gg CO₂ equivalent)				
HFC-23				
HFC-32				
HFC-41				
HFC-43-10mee				
HFC-125				
HFC-134				
HFC-134a				
HFC-152a				
HFC-143				
HFC-143a				
HFC-227ea				
HFC-236fa				
HFC-245ca				
Unspecified mix of listed HFCs ⁽⁴⁾ - (Gg CO ₂ equivalent)				
Emissions of PFCs⁽³⁾ - (Gg CO₂ equivalent)				
CF ₄				
C ₂ F ₆				
C ₃ F ₈				
C ₄ F ₁₀				
c-C ₄ F ₈				
C ₅ F ₁₂				
C ₆ F ₁₄				
Unspecified mix of listed PFCs ⁽⁴⁾ - (Gg CO ₂ equivalent)				
Emissions of SF₆⁽³⁾ - (Gg CO₂ equivalent)				
SF ₆				

Note: All footnotes for this table are given at the end of the table on sheet 5.

**TABLE 10 EMISSION TRENDS
SUMMARY
(Sheet 5 of 5)**

Year
Submission
Country

GREENHOUSE GAS EMISSIONS	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
	CO ₂ equivalent (Gg)			(%)
CO ₂ emissions including net CO ₂ from LULUCF				
CO ₂ emissions excluding net CO ₂ from LULUCF				
CH ₄ emissions including CH ₄ from LULUCF				
CH ₄ emissions excluding CH ₄ from LULUCF				
N ₂ O emissions including N ₂ O from LULUCF				
N ₂ O emissions excluding N ₂ O from LULUCF				
HFCs				
PFCs				
SF ₆				
Total (including LULUCF)				
Total (excluding LULUCF)				

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from 1990 ⁽¹⁾ to latest reported year
	CO ₂ equivalent (Gg)			(%)
1. Energy				
2. Industrial Processes				
3. Solvent and Other Product Use				
4. Agriculture				
5. Land Use, Land-Use Change and Forestry ⁽⁵⁾				
6. Waste				
7. Other				
Total (including LULUCF)⁽⁵⁾				

⁽¹⁾ The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the COP. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

⁽²⁾ Fill in net emissions/removals as reported in table Summary 1.A. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽³⁾ Enter actual emissions estimates. If only potential emissions estimates are available, these should be reported in this table and an indication for this be provided in the documentation box. Only in these rows are the emissions expressed as CO₂ equivalent emissions.

⁽⁴⁾ In accordance with the UNFCCC reporting guidelines, HFC and PFC emissions should be reported for each relevant chemical. However, if it is not possible to report values for each chemical (i.e. mixtures, confidential data, lack of disaggregation), this row could be used for reporting aggregate figures for HFCs and PFCs, respectively. Note that the unit used for this row is Gg of CO₂ equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.

⁽⁵⁾ Includes net CO₂, CH₄ and N₂O from LULUCF.

Documentation box:

- Parties should provide detailed explanations on emissions trends in Chapter 2: Trends in Greenhouse Gas Emissions and, as appropriate, in the corresponding Chapters 3 - 9 of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and further details are needed to understand the content of this table.
- Use the documentation box to provide explanations if potential emissions are reported.

Решение 15/CP.11

Вопросы, связанные с коррективами согласно пункту 2 статьи 5 Киотского протокола

Конференция Сторон,

ссылаясь на свои решения 21/CP.7 и 20/CP.9,

рассмотрев соответствующие рекомендации Вспомогательного органа для консультирования по научным и техническим аспектам, касающиеся завершения работы над техническими руководящими указаниями по внесению коррективов,

1. *постановляет* включить технические руководящие указания по методологиям внесения коррективов согласно пункту 2 статьи 5 Киотского протокола, содержащиеся ниже в приложении к настоящему решению, в приложение к проекту решения -/СМР.1 (Статья 5.2), который прилагается к решению 21/CP.7¹;

2. *рекомендует* Конференции Сторон, действующей в качестве совещания Сторон Киотского протокола, на ее первой сессии принять проект решения -/СМР.1 (Вопросы, связанные с коррективами согласно пункту 2 статьи 5 Киотского протокола), который приводится ниже², с тем чтобы заменить проект решения -/СМР.1 (Технические руководящие указания по методологиям внесения коррективов согласно пункту 2 статьи 5 Киотского протокола), который прилагается к решению 20/CP.9.

¹ Приложение, содержащее технические руководящие указания по методологиям внесения коррективов согласно пункту 2 статьи 5 Киотского протокола, не воспроизводится в настоящем документе. После принятия решения 15/CP.11 эти технические руководящие указания (первоначально содержащиеся в документе FCCC/SBSTA/2005/4/Add.1) были включены в приложение к проекту решения, прилагаемому к решению 21/CP.7. Этот проект решения был принят КС/СС в качестве решения 20/СМР.1 (FCCC/КР/СМР/2005/8/Add.3).

² Этот проект решения был принят КС/СС без внесения поправок в качестве решения 21/СМР.1 (FCCC/КР/СМР/2005/8/Add.3).

Проект решения -/СМР.1

Вопросы, связанные с коррективами согласно пункту 2 статьи 5 Киотского протокола

Конференция Сторон, действующая в качестве совещания Сторон Киотского протокола,

принимая во внимание решения 21/СР.7, 23/СР.7, 20/СР.9 и -/СР.11 (*Вопросы, связанные с коррективами согласно пункту 2 статьи 5 Киотского протокола*),

1. *просит* ведущих экспертов по рассмотрению, как они определены в пунктах 36-42 руководящих принципов для рассмотрения согласно статье 8 Киотского протокола (решение 23/СР.7), коллективно провести рассмотрение и сделать рекомендации в отношении:
 - a) способов совершенствования последовательного применения группами экспертов по рассмотрению технических руководящих указаний, в особенности подходов к обеспечению консервативности скорректированных оценок;
 - b) разработки и регулярного обновления информации, содержащейся в перечне ресурсов для рассмотрения, приведенном в приложении I к техническим руководящим указаниям;
 - c) способов обеспечения общего подхода к применению положений пункта 57 технических руководящих указаний и ограничения гибкости, которая предоставляется группам экспертов по рассмотрению в этом плане, если это будет сочтено необходимым;
 - d) обновления, в соответствующих случаях, до начала представления информации за период действия обязательств и впоследствии, по мере необходимости, таблиц коэффициентов консервативности, содержащихся в приложении III к техническим руководящим указаниям, включая построение и структуру интервалов неопределенности в указанной таблице;
2. *просит* секретариат включать любые рекомендации, разработанные в результате коллективного рассмотрения, проведенного ведущими экспертами, в их ежегодный доклад, упоминаемый в пункте 40 руководящих принципов согласно статье 8 Киотского протокола, который будет представляться на рассмотрение Вспомогательного органа для консультирования по научным и техническим аспектам;

3. *просит* Вспомогательный орган для консультирования по научным и техническим аспектам после рассмотрения докладов, указанных в пункте 2 выше, принимать любые необходимые меры в целях выполнения рекомендаций, разработанных ведущими экспертами по рассмотрению и упоминаемых в пункте 1 с) и d) выше;

4. *просит* секретариат после получения коллективной рекомендации от ведущих экспертов по рассмотрению регулярно обновлять информацию в перечне ресурсов для рассмотрения, содержащемся в приложении I к техническим руководящим указаниям;

5. *просит* секретариат архивировать информацию о коррективах, содержащуюся в докладах о рассмотрении, и другую соответствующую информацию, а также обеспечивать ее наличие и предоставлять беспрепятственный доступ к ней для групп экспертов по рассмотрению;

6. *постановляет*, что в отношении любых коррективов, применяемых ретроактивно в соответствии с пунктом 12 технических руководящих указаний, для требований о приемлемости, изложенным в пункте 3 е) проекта решения -/СМР.1 (*Руководящие принципы для подготовки информации, требуемой согласно статье 7 Киотского протокола*), содержащегося в приложении к решению 22/СР.7, будут иметь значение только те коррективы, которые применялись к рассматриваемому кадастровому году.

*1-е пленарное заседание
28 ноября 2005 года*
