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مؤتمر الأطراف

تقرير مؤتمر الأطراف عن دورته الحادية عشرة، المعقودة في مونتريال في الفترة من ٢٨ تشرين الثاني/نوفمبر إلى ١٠ كانون الأول/ديسمبر ٢٠٠٥

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جداول نموذج الإبلاغ الموحد لفئات استخدام الأراضي وتغيير استخدام الأراضي والحراجة

إن مؤتمر الأطراف،

إذ يشير إلى الفقرة ١ من المادة ٤، والفقرة ٢ من المادة ١٠، والفقرة ١ من المادة ١٢ من الاتفاقية،

وإذ يشير أيضاً إلى مقرريه ١٨/م أ-٨ و١٣/م أ-٩،

١- *يعتمد* جداول نموذج الإبلاغ الموحد وملاحظاتها الواردة في المرفق بهذا المقرر، بغرض تقديم معلومات عن قوائم الجرد السنوية بشأن استخدام الأراضي وتغيير استخدام الأراضي والحراجة؛

٢- *يقرر* أن يستخدم كل طرف من الأطراف المدرجة في المرفق الأول بالاتفاقية هذه الجداول بغرض تقديم قوائم الجرد السنوية المستحقة في عام ٢٠٠٧ وما بعده؛

٣- *يطلب* إلى الأمانة أن تدرج هذه الجداول وملاحظاتها والتعديلات التقنية الناتجة عن المقرر ١٣/م أ-٩ في "المبادئ التوجيهية لإعداد البلاغات الوطنية المقدمة من الأطراف المدرجة في المرفق الأول بالاتفاقية، الجزء الأول: المبادئ التوجيهية لاتفاقية الأمم المتحدة الإطارية بشأن تغير المناخ فيما يتعلق بقوائم الجرد السنوية" التي اعتُمدت بموجب المقرر ١٨/م أ-٨، وأن تعد قبل الدورة الخامسة والعشرين للهيئة الفرعية للمشورة العلمية والتكنولوجية (تشرين الثاني/نوفمبر ٢٠٠٦) وثيقة وحيدة تتضمن مبادئ توجيهية محدَّثة للاتفاقية الإطارية بشأن الإبلاغ عن قوائم الجرد السنوية.

المرفق

جداول نموذج الإبلاغ الموحد وملاحظاتها

ملاحظات على نموذج الإبلاغ الموحد

١- يشكل نموذج الإبلاغ الموحد جزءاً لا يتجزأ من التقرير المقدم عن قوائم الجرد الوطنية. وهو مصمم لضمان قيام الأطراف المدرجة في المرفق الأول بالاتفاقية بالإبلاغ عن بيانات كمية في نموذج موحد، ولتيسير المقارنة بين بيانات قوائم الجرد التي تقدمها الأطراف المدرجة في المرفق الأول. وينبغي ذكر التفاصيل المتعلقة بأية معلومات ذات طابع غير كمي في تقارير الجرد الوطنية.

٢- والهدف من المعلومات المقدمة في نموذج الإبلاغ الموحد هو زيادة القدرة على المقارنة بين قوائم الجرد وزيادة شفافية هذه القوائم عن طريق تيسير جملة أمور من بينها بيانات الأنشطة والمقارنات بين عوامل الانبعاثات الضمنية أو عوامل تغير مخزون الكربون فيما بين الأطراف المدرجة في المرفق الأول، وسهولة تحديد الأخطاء وحالات سوء الفهم وحالات الإغفال المحتملة في قوائم الجرد.

٣- وكما ذكر في هذه المبادئ التوجيهية المتعلقة بالإبلاغ[(١)]، يتألف نموذج الإبلاغ الموحد من جداول للإبلاغ الموجز والإبلاغ القطاعي، مستمدة من *المبادئ التوجيهية المنقحة لعام ١٩٩٦ المتعلقة بقوائم جرد غازات الدفيئة* التي اعتمدها الفريق الحكومي الدولي المعني بتغير المناخ (المبادئ التوجيهية للفريق الحكومي الدولي) بالإضافة إلى جداول البيانات الأساسية القطاعية التي أعدت حديثاً وجداول أخرى متسقة مع المبادئ التوجيهية للفريق الحكومي الدولي *وإرشادات الممارسات الجيدة للفريق الحكومي الدولي، وإدارة حالات عدم اليقين في قوائم الجرد الوطنية لغازات الدفيئة*.

٤- وبعض جداول البيانات الأساسية القطاعية يتطلب حساب عوامل الانبعاثات الضمنية أو عوامل تغير مخزون الكربون. وهذه هي النسب التنازلية بين تقدير الانبعاثات أو عمليات الإزالة وبيانات الأنشطة المجمعة، الخاصة بالطرف المدرج في المرفق الأول. والغرض الوحيد من عوامل الانبعاثات الضمنية أو عوامل تغير مخزون الكربون هو المقارنة. فهي لن تكون بالضرورة عوامل الانبعاثات/عمليات الإزالة المستخدمة فعلاً في تقدير الانبعاثات الأصلي، إلا إذا كان هذا مجرد عملية ضرب مبنية على ذات بيانات الأنشطة المجمعة والمستخدمة لحساب عامل الانبعاث الضمني أو عامل تغير مخزون الكربون.

٥- وانسجاماً مع المبادئ التوجيهية المنقحة للفريق الحكومي الدولي المعني بتغير المناخ لعام ١٩٩٦، ينبغي الإبلاغ في الجداول المناسبة عن البنود التفسيرية، مثل تقديرات الانبعاثات من الوقود المستخدم في النقل الجوي والبحري الدولي، وانبعاثات ثاني أكسيد الكربون من الكتلة الحيوية، والانبعاثات من العمليات المتعددة، ولكن ينبغي عدم إدراجها في المجاميع الوطنية.

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(١) ستصبح الملاحظات على نموذج الإبلاغ الموحّد جزءاً من "المبادئ التوجيهية لإعداد البلاغات الوطنية المقدمة من الأطراف المدرجة في المرفق الأول بالاتفاقية، الجزء الأول: المبادئ التوجيهية لاتفاقية الأمم المتحدة الإطارية بشأن تغير المناخ فيما يتعلق بالإبلاغ عن قوائم الجرد السنوية"، كما وردت في الوثيقة FCCC/SBSTA/2004/8. وأي إشارة إلى "المبادئ التوجيهية للإبلاغ" في هذه الملاحظات هي إشارة إلى تلك المبادئ التوجيهية.

٦- وينبغي للأطراف المدرجة في المرفق الأول أن تستخدم أُطُر التوثيق الواردة أسفل الجداول لتقديم إشارات مرجعية محددة إلى الفروع ذات الصلة من التقرير عن قوائم الجرد الوطنية التي ينبغي أن تقدم فيها تفاصيل كاملة عن قطاع معين/فئة معينة.

٧- وينبغي للأطراف المدرجة في المرفق الأول أن تملأ جميع الخانات الخاصة بتقديرات الانبعاثات أو عمليات الإزالة أو بيانات الأنشطة أو عوامل الانبعاثات. وينبغي استخدام رموز التفسير المبينة في الفقرة ٢٨ من المبادئ التوجيهية للإبلاغ عند عدم إدراج بيانات.

٨- ويوجد في جداول البيانات الأساسية القطاعية، أسفل الفئة "Other"، صف فارغ يبين أنه يمكن إضافة فئات خاصة بكل بلد. وستدرج هذه الفئات تلقائياً في جداول الإبلاغ القطاعية.

٩- وينبغي للأطراف المدرجة في المرفق الأول أن تملأ البيانات في أطر المعلومات الإضافية. وعندما تكون المعلومات المطلوبة غير مناسبة بسبب الطريقة التي يستخدمها الطرف المدرج في المرفق الأول، ينبغي ملء الخانات المناظرة باستخدام المؤشر "NA" (لا تنطبق).

١٠- ولا ينبغي تغيير ترتيب أعمدة الجداول أو الصفوف أو الخانات أو ملاحظاتها، لأن ذلك سيؤدي إلى تعقيد عملية تجميع البيانات. وأية بيانات تضاف إلى التفصيل الحالي لفئات المصادر والمصارف ينبغي إدراجها تحت خانة "Other"، عند الاقتضاء.

١١- ولتبسيط مخطط الجداول ووضوح بيان اشتراطات الإبلاغ المحددة لكل جدول، لم تترك بيضاءَ إلا الخانات التي تتطلب من الأطراف المدرجة في المرفق الأول إدخال البيانات فيها. ويبين التظليل الخفيف للخانات أن من المتوقع ملؤها باستخدام برنامج حاسوبي توفره الأمانة. ومع ذلك، فعلى الأطراف التي تفضل عدم استخدام أي برنامج حاسوبي لتسجيل بيانات نموذج الإبلاغ الموحد أن تدرج بياناتها في تلك الخانات أيضاً.

١٢- وكما هي الحال في نموذج الإبلاغ الموحد الحالي، استُخدم التظليل الثقيل في الخانات التي ليس من المتوقع أن تتضمن أية معلومات.

١٣- أما زيادة الكربون ونقصانه فينبغي إدراجهما بصورة مستقلة في جداول البيانات الأساسية لقطاع استخدام الأراضي وتغيير استخدام الأراضي والحراجة، إلا في الحالات التي قد يتعذر فيها تقنياً، نظراً للطرائق المستخدمة، فصل المعلومات المتعلقة بالزيادة عن المعلومات المتعلقة بالنقصان.

١٤- وانسجاماً مع الفقرة ١٨ من المبادئ التوجيهية للإبلاغ، يتعين على كل طرف من الأطراف المدرجة في المرفق الأول بالاتفاقية أن يبلغ عن قوائم الجرد الوطنية لانبعاثات جميع غازات الدفيئة البشرية المنشأ التي لا يحكمها بروتوكول مونتريال، وذلك بحسب مصادرها وعمليات إزالتها بواسطة المصارف.

١٥- ووفقاً للمبادئ التوجيهية المنقحة للفريق الحكومي الدولي المعني بتغير المناخ لعام ١٩٩٦، ولأغراض الإبلاغ، تكون دائماً علامة عمليات الإزالة علامة سالبة (-)، وعلامة الانبعاث علامة موجبة (+). وتحوَّل التغيرات الصافية في مخزونات الكربون إلى ثاني أكسيد الكربون بضرب الكربون C في ١٢/٤٤، وبتغيير علامة عمليات الإزالة الصافية لثاني أكسيد الكربون إلى علامة سالبة (-) وعلامة الانبعاثات الصافية لثاني أكسيد الكربون إلى علامة موجبة (+).

Tables of the common reporting format for land use, land-use change and forestry and related tables (tables Summary 2, table 8 (a) (recalculations) and table 10 (trends))

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_2O [(2)]	NO_X	CO	NMVOC
	(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)]						
Harvested Wood Products [(6)]						
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 CO_2 emissions and removals shown in tables 5.A to 5.F, and the CO_2, CH_4 and N_2O 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 Year

Forest Land Submission

(Sheet 1 of 1) Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA		IMPLIED CARBON-STOCK-CHANGE FACTORS						CHANGES IN CARBON STOCK						
				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) (6)		Net CO_2 emissions/ removals (8) (9)
Land-Use Category	Sub-division(1)	Area(2) (kha)	Area of organic soil(2) (kha)	Gains	Losses	Net change		Mineral soils (5)	Organic soils	Gains	Losses	Net change		Mineral soils	Organic soils (7)	
				(Mg C/ha)						(Gg C)						(Gg)
A. Total Forest Land																
1. Forest Land remaining Forest Land																
2. Land converted to Forest Land(10)																
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) The total area of the subcategories, in accordance with the sub-division used, should be entered here. For lands converted to Forest Land report the cumulative area remaining in the category in the reporting year.

(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) Implied carbon-stock-change factors for mineral soils are calculated by dividing the net C stock change estimate for mineral soil by the difference between the area and the area of organic soil.

(6) When Parties are estimating fluxes for organic soils but cannot separate these fluxes from mineral soils, these fluxes should be reported under mineral soils.

(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) 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 CO_2 by multiplying C by 44/12 and changing the sign for net CO_2 removals to be negative (-) and for net CO_2 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/removals directly in this column and use notation keys in the stock change columns.

(10) 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.

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 (10) (11)
				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), (6)			Net carbon stock change in dead organic matter (4) (7)	Net carbon stock change in soils (4)(8)		
Land-Use Category	Sub-division (1)	Area (2) (kha)	Area of organic soil (kha) (2)	Gains	Losses	Net change		Mineral soils (5)	Organic soils	Gains	Losses	Net change		Mineral soils	Organic soils (9)	
				(Mg C/ha)						(Gg C)						(Gg)
B. Total Cropland																
1. Cropland remaining Cropland																
2. Land converted to Cropland (12)																
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) The total area of the subcategories, in accordance with the sub-division used, should be entered here. For lands converted to Cropland report the cumulative area remaining in the category in the reporting year.

(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) Implied carbon-stock-change factors for mineral soils are calculated by dividing the net C stock change estimate for mineral soil by the difference between the area and the area of organic soil.

(6) For category 5.B.1 Cropland remaining Cropland this column only includes changes in perennial woody biomass.

(7) No reporting on dead organic matter pools is required for category 5.B.1. Cropland remaining Cropland.

(8) When Parties are estimating fluxes for organic soils but cannot separate these fluxes from mineral soils, these fluxes should be reported under mineral soils.

(9) 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.

(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 CO_2 by multiplying C by 44/12 and changing the sign for net CO_2 removals to be negative (-) and for net CO_2 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.

(11) Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions/removals directly in this column and use notation keys in the stock change columns.

(12) 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.

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

Year

Grassland

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 (10) (11)
Land-Use Category	Sub-division (1)	Area (2) (kha)	Area of organic soil (kha) (2)	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) (6)			Net carbon stock change in dead organic matter (4) (7)	Net carbon stock change in soils (4) (8)		
				Gains	Losses	Net change		Mineral soils (5)	Organic soils	Gains	Losses	Net change		Mineral soils	Organic soils (9)	
				(Mg C/ha)						(Gg C)						(Gg)
C. Total Grassland																
1. Grassland remaining Grassland																
2. Land converted to Grassland (12)																
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 total area of the subcategories, in accordance with the sub-division used, should be entered here. For lands converted to Grassland report the cumulative area remaining in the category in the reporting year.

(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) Implied carbon-stock-change factors for mineral soils are calculated by dividing the net C stock change estimate for mineral soil by the difference between the area and the area of organic soil.

(6) For category 5.C.1 Grassland remaining Grassland this column only includes changes in perennial woody biomass.

(7) No reporting on dead organic matter pools is required for category 5.C.1 Grassland remaining Grassland.

(8) When Parties are estimating fluxes for organic soils but cannot separate these fluxes from mineral soils, these fluxes should be reported under mineral soils.

(9) 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.

(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 CO_2 by multiplying C by 44/12 and changing the sign for net CO_2 removals to be negative (-) and for net CO_2 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.

(11) Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions/removals directly in this column and use notation keys in the stock change columns.

(12) 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.

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 [5] [6]
Land-Use Category	Sub-division [1]	Area[2] (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)					(Gg)
D. Total Wetlands													
1. Wetlands remaining Wetlands [7]													
2. Land converted to Wetlands [8]													
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) 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 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.

(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) 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 CO_2 by multiplying C by 44/12 and changing the sign for net CO_2 removals to be negative (-) and for net CO_2 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.

(6) Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions/removals directly in this column and use notation keys in the stock change columns.

(7) 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.

(8) 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.

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 [6] [7]
Land-Use Category	Sub-division [1]	Area[2] (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)					(Gg)
E. Total Settlements													
1. Settlements remaining Settlements [8]													
2. Land converted to Settlements[9]													
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) 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 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.

(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) 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 CO_2 by multiplying C by 44/12 and changing the sign for net CO_2 removals to be negative (-) and for net CO_2 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.

(7) Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions/removals directly in this column and use notation keys in the stock change columns.

(8) 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.

(9) 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.

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 [5] [6]
Land-Use Category	Sub-division[1]	Area[2] (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)					(Gg)
F. Total Other Land													
1. Other Land remaining Other Land [7]													
2. Land converted to Other Land [8]													
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) 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 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.
(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) 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 CO_2 by multiplying C by 44/12 and changing the sign for net CO_2 removals to be negative (-) and for net CO_2 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.
(6) Where Parties directly estimate emissions and removals rather than carbon stock changes, they may report emissions/removals directly in this column and use notation keys in the stock change columns.
(7) This land-use category is to allow the total of identified land area to match the national area.
(8) 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.

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 Year

Direct N_2O emissions from N fertilization[(1)] of Forest Land and Other Submission

(Sheet 1 of 1) Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS [(4)]
Land-Use Category [(2)]	**Total amount of fertilizer applied (Gg N/yr)**	**N_2O-N emissions per unit of fertilizer (kg N_2O-N/kg N)[(3)]**	**N_2O (Gg)**
Total for all Land Use Categories			
A. Forest Land [(5)] [(6)]			
1. Forest Land remaining Forest Land			
2. Land converted to Forest Land			
G. Other *(please specify)*			

[(1)] Direct N_2O 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)] N_2O 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, N_2O emissions are converted to N_2O-N by multiplying by 28/44.

[(4)] Emissions are reported with a positive sign.

[(5)] If a Party is not able to separate the fertilizer applied to forest land from that applied to agriculture, it may report all N_2O emissions from fertilization in the Agriculture sector. This should be explicitly indicated in the documentation box.

[(6)] 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.

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-CO_2 emissions from drainage of soils and wetlands[1] Submission
(Sheet 1 of 1) Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		ACTIVITY DATA	IMPLIED EMISSION FACTORS		EMISSIONS [5]	
Land-Use Category [2]	Sub-division [3]	Area (kha)	N_2O-N per area [4] (kg N_2O-N/ha)	CH_4 per area (kg CH_4/ha)	N_2O (Gg)	CH_4 (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] N_2O 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, N_2O emissions are converted to N_2O-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 Year

N_2O emissions from disturbance associated with land-use conversion to cropland [1] Submission

(Sheet 1 of 1) Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS [4]
Land-Use Category [2]	**Land area converted (kha)**	**N_2O-N emissions per area converted [3] (kg N_2O-N/ha)**	**N_2O (Gg)**
Total all Land-Use Categories [5]			
B. Cropland			
2. Lands converted to Cropland [6]			
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 [7]			
Organic Soils			
Mineral Soils			
2.5 Other Land converted to Cropland			
Organic Soils			
Mineral Soils			
G. Other *(please specify)*			

[1] Methodologies for N_2O 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. N_2O 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, N_2O emissions from disturbance of soils are only relevant for land conversions to cropland. N_2O 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, N_2O emissions are converted to N_2O-N by multiplying by 28/44.

[4] Emissions are reported with a positive sign.

[5] Parties can separate between organic and mineral soils, if they have data available.

[6] 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).

[7] Parties should avoid double counting with N_2O emissions from drainage and from cultivation of organic soils reported in Agriculture under Cultivation of Histosols.

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 (IV) SECTORAL BACKGROUND DATA FOR LAND USE, LAND-USE CHANGE AND FORESTRY Year

CO_2 emissions from agricultural lime application[1] Submission

(Sheet 1 of 1) Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA	IMPLIED EMISSION FACTORS	EMISSIONS [3]
Land-Use Category	**Total amount of lime applied (Mg/yr)**	**CO_2-C per unit of lime [2] (Mg CO_2-C /Mg)**	**CO_2 (Gg)**
Total all Land-Use Categories [4], [5], [6]			
B. Cropland [6] [7]			
Limestone $CaCO_3$			
Dolomite $CaMg(CO_3)_2$			
C. Grassland [6][8]			
Limestone $CaCO_3$			
Dolomite $CaMg(CO_3)_2$			
G. Other *(please specify)* [6] [9]			

[1] CO_2 emissions from agricultural lime application are addressed in equations 3.3.6 and 3.4.11 of the IPCC good practice guidance for LULUCF.

[2] The implied emission factor is expressed in unit of carbon to faciliate comparison with published emission factors.

[3] Emissions are reported with a positive sign.

[4] 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.

[5] 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.

[6] A Party may report aggregate estimates for total lime applications when data are not available for limestone and dolomite.

[7] In table 5, these CO_2 emissions will be added to 5.B.1 Cropland remaining Cropland.

[8] In table 5, these CO_2 emissions will be added to 5.C.1 Grassland remaining Grassland.

[9] If a Party has data broken down to limestone and dolomite at national level, it can report these data under 5.G Other.

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 Year

Biomass Burning [1] Submission

(Sheet 1 of 1) Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA			IMPLIED EMISSION FACTOR			EMISSIONS [5]		
	Description [3]	Unit	Values	CO_2	CH_4	N_2O	CO_2 [4]	CH_4	N_2O
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									
Controlled Burning									
Wildfires									
2. Land converted to Forest Land									
Controlled Burning									
Wildfires									
B. Cropland									
1. Cropland remaining Cropland [6]									
Controlled Burning									
Wildfires									
2. Land converted to Cropland									
Controlled Burning									
Wildfires									
2.1. Forest Land converted to Cropland									
Controlled Burning									
Wildfires									
C. Grassland									
1. Grassland remaining Grassland [7]									
Controlled Burning									
Wildfires									
2. Land converted to Grassland									
Controlled Burning									
Wildfires									
2.1. Forest Land converted to Grassland									
Controlled Burning									
Wildfires									

D. Wetlands									
1. Wetlands remaining Wetlands [8]									
Controlled Burning									
Wildfires									
2. Land converted to Wetlands									
Controlled Burning									
Wildfires									
2.1. Forest Land converted to Wetlands									
Controlled Burning									
Wildfires									
E. Settlements [8]									
F. Other Land [9]									
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 CO_2 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] Emissions are reported with a positive sign.

[6] In-situ above-ground woody biomass burning is reported here. Agricultural residue burning is reported in the Agriculture sector.

[7] Includes only emissions from controlled biomass burning on grasslands outside the tropics (prescribed savanna burning is reported under the Agriculture sector).

[8] 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.

[9] This land-use category is to allow the total of identified land area to match the national area.

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 CO_2 EQUIVALENT EMISSIONS

(Sheet 1 of 1)

Year
Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [1]	CH_4	N_2O	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 1.A)***							

Memo Items: [4]							
International Bunkers							
Aviation							
Marine							
Multilateral Operations							
CO_2 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 CO_2 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 CO_2 from soils in the Agriculture sector should note this in the NIR.

[4] See footnote 8 to table Summary 1.A.

TABLE 8(a) RECALCULATION - RECALCULATED DATA

Year

(Sheet 1 of 4) Recalculated year:

Submission

Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		CO_2						CH_4						N_2O					
		Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]
		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_2O					
		Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]	Previous submission	Latest submission	Difference	Difference [1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]
		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 [4]																		
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)[5]																			
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_2O					
	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]
	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[3]	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]	Previous submission	Latest submission	Difference	Difference[1]	Impact of recalculation on total emissions excluding LULUCF [2]	Impact of recalculation on total emissions including LULUCF[3]
		CO_2 equivalent (Gg)			(%)			CO_2 equivalent (Gg)			(%)			CO_2 equivalent (Gg)			(%)		
Total Acutal 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																			

	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 x [(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 CO_2 equivalent, excluding GHGs from the LULUCF sector. The impact of the recalculation on the total emissions is calculated as follows: impact of recalculation (%) = 100 x [(source (LS) - source (PS))/total emissions (LS)], where LS = latest submission, PS = previous submission.

(3) Total emissions refer to total aggregate GHG emissions expressed in terms of CO_2 equivalent, including GHGs from the LULUCF sector. The impact of the recalculation on the total emissions is calculated as follows: impact of recalculation (%) = 100 x [(source (LS) - source (PS))/total emissions (LS)], where LS = latest submission, PS = previous submission.

(4) Parties which previously reported CO_2 from soils in the Agriculture sector should note this in the NIR.

(5) Net CO_2 emissions/removals to be reported.

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 Year

CO_2 Submission

(Sheet 1 of 5) 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 1.A)*				
Total CO_2 emissions including net CO_2 from LULUCF				
Total CO_2 emissions excluding net CO_2 from LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations				
CO_2 Emissions from Biomass				

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

TABLE 10 EMISSIONS TRENDS Year

CH_4 Submission

(Sheet 2 of 5) 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				
CO_2 Emissions from Biomass				

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

TABLE 10 EMISSIONS TRENDS
N_2O
(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 1.A)*				
Total N_2O emissions including N_2O from LULUCF				
Total N_2O emissions excluding N_2O from LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations				
CO_2 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 SF_6
(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 CO_2 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 CO_2 equivalent)				
CF_4				
C_2F_6				
C_3F_8				
C_4F_{10}				
c-C_4F_8				
C_5F_{12}				
C_6F_{14}				
Unspecified mix of listed PFCs[4] - (Gg CO_2 equivalent)				
Emissions of SF_6[3] - (Gg CO_2 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_2O emissions including N_2O from LULUCF				
N_2O emissions excluding N_2O 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 base 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 CO_2 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 CO_2 equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.

[5] Includes net CO_2, CH_4 and N_2O 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.

المقرر ١٥/م أ-١١

القضايا المتعلقة بمنهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو

إن مؤتمر الأطراف،

إذ يشير إلى مقرريه ٢١/م أ-٧ و٢٠/م أ-٩،

وقد نظر في التوصيات ذات الصلة للهيئة الفرعية للمشورة العلمية والتكنولوجية فيما يتصل باستكمال الإرشادات التقنية المتعلقة بمنهجيات التعديل،

١- *يقرر* إدراج الإرشادات التقنية بشأن منهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو الواردة في مرفق هذا المقرر في مرفق مشروع المقرر -/م أإ-١ (*المادة ٥-٢*) الملحق بالمقرر ٢١/م أ-٧[(١)]؛

٢- *يوصي* مؤتمر الأطراف العامل بوصفه اجتماع الأطراف في بروتوكول كيوتو بالقيام، في دورته الأولى، باعتماد مشروع المقرر -/م أإ-١ (*القضايا المتعلقة بمنهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو*) أدناه[(٢)]، ليحل محل مشروع المقرر -/م أإ-١ (*الإرشادات التقنية المتعلقة بمنهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو*) الملحق بالمقرر ٢٠/م أ-٩.

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(١) لم يورَد هنا المرفق المتضمن للإرشادات التقنية المتعلقة بمنهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو. وبعد اعتماد المقرر ١٥/م أ-١١، أُدرجت الإرشادات التقنية (الواردة أصلاً في الوثيقة FCCC/SBSTA/2005/4/Add.1) في مرفق مشروع المقرر الملحق بالمقرر ٢١/م أ-٧. واعتمد مؤتمر الأطراف العامل بوصفه اجتماع الأطراف في بروتوكول كيوتو مشروع المقرر هذا باعتباره المقرر ٢٠/م أإ-١ (FCCC/KP/CMP/2005/8/Add.3).

(٢) اعتمد مؤتمر الأطراف العامل بوصفه اجتماع الأطراف في بروتوكول كيوتو مشروع المقرر هذا باعتباره المقرر ٢١/م أإ-١ (FCCC/KP/CMP/2005/8/Add.3).

مشروع المقرر -/م أإ -١

القضايا المتعلقة بمنهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو

إن مؤتمر الأطراف العامل بوصفه اجتماع الأطراف في بروتوكول كيوتو،

وقد نظر في المقررات ٢١/م أ-٧ و٢٣/م أ-٧ و٢٠/م أ-٩ و-/م أ-١١ *(القضايا المتعلقة بمنهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو)*،

١- *يطلب* أن يقوم خبراء الاستعراض الرئيسيون، وفقاً للتعريف الوارد في الفقرات من ٣٦ إلى ٤٢ من المبادئ التوجيهية للاستعراض بموجب المادة ٨ من بروتوكول كيوتو (المقرر ٢٣/م أ-٧)، بالنظر جماعياً في المسائل التالية، والتقدم بتوصيات بشأنها:

(أ) سبل تحسين التطبيق المتسق الذي تجريه أفرقة خبراء الاستعراض للإرشادات التقنية بشأن منهجيات التعديل بموجب الفقرة ٢ من المادة ٥ من بروتوكول كيوتو، ولا سيما نهج ضمان التحفظ في التقديرات المعدلة؛

(ب) توفير المعلومات وتحديثها بانتظام في موارد استعراض قوائم الجرد المدرجة في التذييل الأول للإرشادات التقنية؛

(ج) سبل اتباع نهج مشترك في تطبيق أحكام الفقرة ٥٧ من الإرشادات التقنية وتحديد المرونة المتاحة لأفرقة خبراء الاستعراض في هذا المضمار، إذا اقتضت الضرورة ذلك؛

(د) القيام، حسب الاقتضاء، قبل بدء الإبلاغ فيما يتعلق بفترة الالتزام وبعدها، كلما استلزم الأمر، بتحديث جداول عوامل التحفظ المدرجة في التذييل الثالث للإرشادات التقنية، بما في ذلك الهيكل والعناصر الأساسية لنطاقات عدم اليقين المشار إليها في تلك الجداول؛

٢- *يطلب* إلى الأمانة إدراج أية توصيات يخلص إليها خبراء الاستعراض الرئيسيون جماعياً في تقريرهم السنوي، المشار إليه في الفقرة ٤٠ من المبادئ التوجيهية للاستعراض المنصوص عليها في المادة ٨ من بروتوكول كيوتو، والمقدم إلى الهيئة الفرعية للمشورة العلمية والتكنولوجية كي تنظر فيه؛

٣- *يطلب* إلى الهيئة الفرعية للمشورة العلمية والتكنولوجية، بعد النظر في التقرير المشار إليه في الفقرة ٢ أعلاه، اتخاذ أية إجراءات مناسبة عملاً بتوصيات خبراء الاستعراض الرئيسيين المشار إليها في الفقرتين الفرعيتين (ج) و(د) من الفقرة ١ أعلاه؛

٤- *يطلب* إلى الأمانة القيام، بناءً على التوصية الجماعية لخبراء الاستعراض الرئيسيين، بالتحديث المنتظم للمعلومات الواردة في موارد استعراض قوائم الجرد المدرجة في التذييل الأول للإرشادات التقنية؛

٥- *يطلب* إلى الأمانة حفظ وتصنيف المعلومات المتعلقة بالتعديلات الواردة في تقارير الاستعراض وما يتصل بها من معلومات، وإتاحتها وتيسير اطلاع أفرقة خبراء الاستعراض عليها؛

٦- *يقـــرر*، فيما يتعلق بأية تعديلات تطبق بأثر رجعي وفقاً للفقرة ١٢ من الإرشادات التقنية، عدم انطـــباق شـــروط الأهلية المنصوص عليها في الفقرة ٣(ه) من مشروع المقرر -/م أإ-١ (*المبادئ التوجيهية لإعداد المعلومات المطلوبة بموجب المادة ٧ من برتوكول كيوتو*) الملحق بالمقرر ٢٢/م أ-٧ إلا على التعديل المطبق بالنسبة لسنة الجرد موضع الاستعراض.

الجلسة العامة الأولى
٢٨ تشرين الثاني/نوفمبر ٢٠٠٥

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