



Annual status report of the annual inventory of Canada

1. This status report was prepared by the expert review team as part of the initial check of the annual inventory submitted in accordance with decision 15/CMP.1. It reflects the content of the inventory submission of 2012 as originally submitted by the Party.

2. In this report, the following abbreviations are used:

AAU: assigned amount unit
CER: certified emission reduction
CRF: common reporting format
ERU: emission reduction unit
GHG: greenhouse gas
KP-LULUCF: Article 3, paragraphs 3 and 4, activities under the Kyoto Protocol
ICER: long-term certified emission reduction
LULUCF: land use, land-use change and forestry
NIR: national inventory report
RMU: removal unit
SBDT: sectoral background data tables
SEF: standard electronic format
SOPU: solvent and other product use
tCER: temporary certified emission reduction

Notation keys

C: confidential
IE: included elsewhere
NA: not applicable
NE: not estimated
NO: not occurring

Greenhouse gases

CO₂: carbon dioxide
CH₄: methane
N₂O: nitrous oxide
HFCs: hydrofluorocarbons
PFCs: perfluorocarbons
SF₆: sulphur hexafluoride
NO_x: nitrogen oxides
CO: carbon monoxide
NMVOCs: non-methane volatile organic compounds
SO₂: sulphur dioxide

GREENHOUSE GAS INVENTORY SUBMISSION											
General information		Date of receipt		Date of resubmission		Comments					
	NIR	11 April 2012									
	CRF tables ^a	11 April 2012									
	Additional information ^b										
	CRF provided for years	1990–2010									
	Base year or period ^c	1990	Base year for HFCs, PFCs and SF ₆ ^d				1990				
	Gases covered	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	NO _x	CO	NMVOCs	SO ₂
		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NIR	Description	The organization of the NIR follows the structure outlined in the updated UNFCCC reporting guidelines ^e on annual inventories following incorporation of the provisions of decision 14/CP.11, elaborated with the annotated outline of the NIR.									
	Language of NIR	English									
CRF ^f	Missing source category larger than 7 per cent for categories included in Annex A to the Kyoto Protocol			No missing source category larger than 7 per cent has been identified.							

^a CRF tables are contained in document FCCC/SBSTA/2006/9, annex II.

^b Additional information can be any information submitted by a Party in conjunction with the NIR or CRF tables.

^c Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

^d A Party may select 1990 or 1995 as the base year for the fluorinated gases in accordance with Article 3, paragraph 8, of the Kyoto Protocol.

^e “Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines for annual inventories” (FCCC/SBSTA/2006/9).

^f A Party has not reported an estimate for an Annex A category that accounted for 7 per cent or more of the Party’s aggregate emissions (decision 15/CMP.1, para. 3(b)).

SUBMISSION OF SUPPLEMENTARY INFORMATION UNDER ARTICLE 7.1				
Reporting of supplementary information		Date of receipt	Date of resubmission	Comments
	KP-LULUCF information ^a	11 April 2012		NIR Part II, page 214, Annex 11, section 11.1.
	KP-LULUCF CRF ^b	11 April 2012		CRF provided for years: 1990, 2008–2010
	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^c	11 April 2012		NIR Part II, page 217, Annex 11, section 11.2.
	SEF ^d with Kyoto units	11 April 2012		
	Change in national system ^e	11 April 2012		NIR Part II, page 221, Annex 11, section 11.3.
	Change in national registry ^e	11 April 2012		NIR Part II, page 221, Annex 11, section 11.4.
	Minimization of adverse impacts ^e	11 April 2012		NIR Part II, page 223, Annex 11, section 11.5.

^a Parties are required to include in their annual submission information on anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, in accordance with the annex to decision 15/CMP.1, paragraphs 5–9.

^b Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.3. Parties may also elect to report these tables for the base year or 1990.

^c Parties are required to include in their annual submission information on ERUs, CERs, tCERs, ICERs, AAUs and RMUs, in accordance with the annex to decision 15/CMP.1, section I.E.

^d SEF for reporting Kyoto Protocol units, as adopted under decision 14/CMP.1 and required by the annex to decision 15/CMP.1, paragraph 11.

^e The requirements for Parties to report on changes in national systems in accordance with Article 5, paragraph 1, changes in national registries, and the minimization of adverse impacts in accordance with Article 3, paragraph 14, are set out in sections I.F, I.G and I.H, respectively, of the annex to decision 15/CMP.1.

PART I															
Provision of information for the latest reported inventory year in the common reporting format: 2010															
Tables		Energy		Industrial processes		SOPU		Agriculture		LULUCF		KP-LULUCF ^a		Waste	
	Sectoral report tables	1	✓	2(I)	✓	3	✓	4	✓	5	✓	5(KP)	✓	6	✓
				2(II)	✓										
	Sectoral background data tables	1.A(a)	✓	2(I).A–G	✓	3.A–D	✓	4.A	✓	5.A	✓	5(KP-I)A.1.1	✓	6.A	✓
		1.A(b)	✓	2(II).C	✓			4.B(a)	✓	5.B	✓	5(KP-I)A.1.2	✓	6.B	✓
		1.A(c)	✓	2(II).E	✓			4.B(b)	✓	5.C	✓	5(KP-I)A.1.3	✓	6.C	✓
		1.A(d)	✓	2(II).F	✓			4.C	✓	5.D	✓	5(KP-I)A.2	✓		
		1.B.1	✓					4.D	✓	5.E	✓	5(KP-I)A.2.1.	✓		
		1.B.2	✓					4.E	✓	5.F	✓	5(KP-I)B.1.	✓		
		1.C	✓					4.F	✓	5 (I)	✓	5(KP-I)B.2.	✓		
		Bunkers separately		✓						5 (II)	✓	5(KP-I)B.3.	✓		
										5 (III)	✓	5(KP-I)B.4.	✓		
										5 (IV)	✓	5(KP-II)1	✓		
										5 (V)	✓	5(KP-II)2	✓		
												5(KP-II)3	✓		
											5(KP-II)4	✓			
										5(KP-II)5	✓				
										Accounting table	✓				
Summary tables	Summary 1.A		✓	Summary 1.B			✓			Summary 2				✓	
Other tables	Summary 3		✓	Table 7 (Key categories)			✓			Table 9(a) (Completeness)				✓	
	Table 10 (Trends)		✓							Table 9(b) (Completeness)					
Comments															

^a Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.3.

PART I										
Provision of information for the latest reported inventory year in the common reporting format: 2010 (continued)										
Totals	Provided for gases	CO ₂ ✓	CH ₄ ✓		N ₂ O ✓		HFCs ✓		PFCs ✓	SF ₆ ✓
	Provided for years	1990–2010	1990–2010		1990–2010		1990–1992, 1995–2010		1990–2010	1990–2010
CO ₂	Reference approach	Sectoral approach		Difference more than 2 per cent			If difference is more than 2 per cent			
	Comparison of CO ₂ from fuel combustion	✓	✓					Explanation provided		
HFCs, PFCs, SF ₆					HFCs		PFCs		SF ₆	
	Disaggregation by species				✓		✓			
	Reporting of actual and/or potential emission estimates in the category consumption of halocarbons and SF ₆				Actual	Potential	Actual	Potential	Actual	Potential
					✓	✓	✓	✓	✓	✓
Notation keys	Used in	Summary table 1.A		✓	Sectoral report tables		✓	Sectoral background data tables		✓
	Comments									

PART II																		
Provision of common reporting format tables for years reported																		
		Years												Information gaps relating to reporting ^b		Comments		
		Base year ^a	1990	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010					
Energy	Sectoral report: table 1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	SBDT	Table 1.A(a)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 1.A(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 1.A(c)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 1.A(d)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 1.B.1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 1.B.2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 1.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Industrial processes	Sectoral reports:	Table 2(I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 2(II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	SBDT	Table 2(I).A–G		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 2(II).C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
		Table 2(II).E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			No numerical data are reported in this table for the years 1993–2010, for these years the notation keys NA, NO are used.		
		Table 2(II).F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			No numerical data are reported in this table for the years 1990–1994, for these years the notation keys NA, IE are used.		

PART II																	
Provision of common reporting format tables for years reported (continued)																	
		Years												Information gaps relating to reporting ^b		Comments	
		Base year ^a	1990	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010				
Solvent use	Sectoral report: Table 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	SOPU Table 3.A–D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Agriculture	Sectoral report: Table 4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Table 4.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Table 4.B(a)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Table 4.B(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Table 4.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			No numerical data are reported in this table, the notation keys NO, NA are used.	
	Table 4.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Table 4.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			No numerical data are reported in this table, the notation key NO is used.	
	Table 4.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

PART II																
Provision of common reporting format tables for years reported (continued)																
		Years														
		Base year ^a	1990	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010	Information gaps relating to reporting ^b	Comments	
LULUCF	Sectoral report: Table 5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 5.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 5.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 5.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table, the notation keys NE, NO are used.	
	Table 5.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 5.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 5.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table, the notation keys NE, NO are used.	
	Table 5 (I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table, the notation keys IE, NA are used.	
	Table 5 (II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table, the notation keys NA, NO are used.	
	Table 5 (III)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 5 (IV)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 5 (V)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

PART II																
Provision of common reporting format tables for years reported (continued)																
		Years											Information gaps relating to reporting ^b			Comments
		Base year ^a	1990	1995	2000	2003	2004	2005	2006	2007	2008	2009				
KP-LULUCF	Sectoral report: Table 5 (KP)		✓								✓	✓	✓			
	Table 5 (KP-I) A.1.1										✓	✓	✓			
	Table 5 (KP-I)A.1.2										✓	✓	✓		No numerical data are reported in these tables, the notation key NA is used.	
	Table 5 (KP-I) A.1.3										✓	✓	✓			
	Table 5 (KP-I) A.2										✓	✓	✓			
	Table 5 (KP-I) A.2.1										✓	✓	✓			
	Table 5 (KP-I) B.1										✓	✓	✓		No numerical data are reported in this table, the notation key NA is used.	
	Table 5 (KP-I) B.2		✓								✓	✓	✓			
	Table 5 (KP-I) B.3		✓								✓	✓	✓		No numerical data are reported in these table, the notation key NA is used.	
	Table 5 (KP-I) B.4		✓								✓	✓	✓			
	Table 5 (KP-II) 1										✓	✓	✓			No numerical data are reported in this table, the notation keys IE, NA are used.
	Table 5 (KP-II) 2											✓	✓	✓		No numerical data are reported in this table, the notation key NA is used.
	Table 5 (KP-II) 3		✓									✓	✓	✓		
	Table 5 (KP-II) 4		✓									✓	✓	✓		
	Table 5 (KP-II) 5		✓									✓	✓	✓		No numerical data are reported in this table for the year 1990, for this year the notation keys NA, IE, NO are used.
	Accounting table											✓	✓	✓		

PART II																
Provision of common reporting format tables for years reported (continued)																
		Years														
		Base year ^a	1990	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010	Information gaps relating to reporting ^b	Comments	
Waste	Sectoral report: Table 6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 6.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 6.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 6.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Summary and other tables	Summary 1.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Summary 1.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Summary 2 (CO ₂ equivalent emissions)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Summary 3 (Methods/emission factors)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 7 (Key categories)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 8(a) (Recalculation – recalculated data)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Table 8(b) (Recalculation – explanatory information)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	Table 9(a) (Completeness)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Table 9(b) (Completeness)															
	Table 10 (Trends)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

^a Parties included in Annex I to the Convention undergoing the process of transition to a market economy are allowed to use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

^b This column indicates that reporting gaps (blank cells) have been identified in a given table of the CRF. This was owing to limited use, or lack, of notation keys (NO, NE, NA, IE, C).

PART III						
Provision of information relating to recalculations						
Table 8(a) (Recalculated data)	✓	Comments				
Recalculation reported for years	1990–2009					
Recalculated sectors/gases	Energy	Industrial processes	Solvent and other product use	Agriculture	LULUCF	Waste
CO ₂	✓	✓	✓		✓	✓
CH ₄	✓	✓		✓	✓	✓
N ₂ O	✓	✓	✓	✓		✓
HFCs		✓				
PFCs		✓				
SF ₆		✓				
Table 8(b) (Explanatory information)	✓	✓	✓	✓	✓	✓
Percentage difference in aggregate greenhouse gas emission	Base year estimate: ^a		with LULUCF:	–0.38 %	without LULUCF:	–0.33 %
	Latest recalculated year: ^b		with LULUCF:	–0.27 %	without LULUCF:	–0.26 %

^a Parties included in Annex I to the Convention undergoing the process of transition to a market economy are allowed to use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

^b The latest recalculated year is the submission year minus 3.

PART IV			
Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4			
		Provided	Observation
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	Emissions by sources and removals by sinks are clearly distinguished from emissions from categories included in Annex A to the Kyoto Protocol	✓	
	Information on how inventory methodologies have been applied taking into account IPCC good practice guidance for LULUCF ^a and decision 16/CMP.1	✓	
	Information on geographical location of the boundaries of areas that encompass:		
	Units of land subject to activities under Article 3.3	✓	
	Units of land subject to activities under Article 3.3, which would otherwise be included in land subject to elected activities under Article 3.4	✓	
	Land subject to elected activities under Article 3.4	✓	
	Information on the spatial assessment unit for determining the area of accounting for afforestation, reforestation and deforestation	✓	
	Information on GHG emissions/removals resulting from activities under Article 3.3 and 3.4, for all geographical locations reported in the current and previous years since the beginning of the commitment period or the onset of the activity, whichever comes later	✓	
	Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for	✓	
	Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from:		
	Elevated CO ₂ concentrations above pre-industrial levels	✓	
	Indirect nitrogen deposition	✓	
	The dynamic effects of age structure resulting from activities prior to 1 January 1990	✓	

^a The Intergovernmental Panel on Climate Change Good Practice Guidance for Land Use, Land-Use Change and Forestry.

PART IV			
Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4 (continued)			
		Provided	Observation
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5-9	Specific information to be reported for Article 3.3 activities:		
	Activities under Article 3.3 that began on or after 1 January 1990 and before 31 December of the last year of the commitment period, and are directly human induced	✓	
	How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished from deforestation	✓	
	Emissions/removals from lands harvested during the first commitment period following afforestation and reforestation on these units of land since 1990	✓	
	Specific information to be reported for Article 3.4 activities:		
	Activities under Article 3.4 that occurred since 1 January 1990 and are human induced	✓	
	Cropland management, grazing land management, revegetation: emissions/removals reported for each year of the commitment period and for the base year for each of the elected activities on the geographical locations reported	✓	
	Emissions/removals from Article 3.4 activities that are not accounted for under activities under Article 3.3	✓	
	Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3	✓	