



COMPLIANCE COMMITTEE

CC/ERT/ASR/2011/13 22 September 2011

Annual status report of the annual inventory of Canada

Note by the secretariat

The annual status report of the annual inventory of Canada was published on 14 June 2011. For purposes of rule 10, paragraph 2, of the Rules of procedure of the Compliance Committee (annex to decision 4/CMP.2, as amended by decision 4/CMP.4), the report is considered received by the secretariat on the same date. This report, FCCC/ASR/2011/CAN, contained in the annex to this note, is being forwarded to the Compliance Committee in accordance with section VI, paragraph 3, of the annex to decision 27/CMP.1 and paragraph 49 of the annex to decision 22/CMP.1.





Framework Convention on Climate Change

Distr.: General 14 June 2011

English only

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 2011 as originally submitted by the Party.
- 2. In this report, the following abbreviations are used:

A: afforestation
AAU: assigned amount unit
CER: certified emission reduction
CM: cropland management
CRF: common reporting format

D: deforestation

ERU: emission reduction unit FM: forest management GM: grazing land management 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

R: reforestation RMU: removal unit RV: revegetation

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

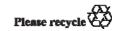
Greenhouse gases
CO₂: carbon dioxide
CH₄: methane
N₂O: nitrous oxide
HFCs: hydrofluorocarbons

PFCs: hydrofluorocarbons PFCs: perfluorocarbons SF₆: sulphur hexafluoride NO_X: nitrogen oxides CO: carbon monoxide

NMVOCs: non-methane volatile organic

compounds

SO₂: sulphur dioxide



			G	REE	NHOU	SE GAS I	NVENTOR	Y SUBMIS	SION					
		Date of r	eceipt	Date	of resul	bmission	Comments							
	NIR	16 May 2	2011											
tion	CRF tables ^a	16 May 2	2011											
forma	Additional information ^b													
General information	CRF provided for years	1990–200)9											
Gene	Base year or period ^c	1990		Ва	ise year	for HFCs	, PFCs and S	F ₆ ^d 1990						
	Gases covered	CO ₂	CH ₄	N	N ₂ O	HFCs	PFCs	SF_6	NO_X	СО	NMVOCs	SO_2		
		✓	✓	,	/	~	✓	✓	✓	√	√	✓		
NIR	Description	The organization of the NIR, in general, 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 annotated outline of the NIR.												
	Language of NIR	English												
CRF	Missing source category categories included in An	-	•			No missing	g source cate	gory larger t	han 7 per c	ent has be	en identified.			

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

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.

* "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).

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													
		Date of receipt	Date of resubmission	Comments										
ation	KP-LULUCF information ^a	16 May 2011		NIR Part 2, Annex 11.1, P	rage 211									
information	KP-LULUCF CRF ^b	16 May 2011		CRF provided for years:	1990, 2008–2009									
supplementary	Information on Kyoto units (ERUs, CERs, RMUs and AAUs)	16 May 2011		NIR Part 2, Annex 11.2, P	Page 214									
olddns.	SEF ^d with Kyoto units	16 May 2011												
ting of	Change in national system ^e	16 May 2011		NIR Part 2, Annex 11.3, P	Page 218									
Reporting	Change in national registry ^e	16 May 2011		NIR Part 2, Annex 11.4, P	Page 220									
	Minimization of adverse impacts ^e	16 May 2011		NIR Part 2, Annex 11.5, F	rage 220									

^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.

	ı	Provision	of info	rmation for	the latest	renorte	PAR'		ar in t	he commo	on reno	orting format: 2009			
	<u> </u>	Energy		Industrial pr		SOPU		Agricult		LULUC		KP-LULUCF ^a		Waste	
	Sectoral report	1	✓	2(I)	✓	3	✓	4	✓	5	✓	5(KP)	✓	6	✓
	tables		<u> </u>	2(II)	✓		ı								
	Sectoral	1.A(a)	✓	2(I).A-G	✓	3.A-D	✓	4.A	✓	5.A	✓	5(KP-I)A.1.1	✓	6.A	✓
	background data tables	1.A(b)	√	2(II).C	√		1	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	separat	ely 🗸						5 (II)	✓	5(KP-I)B.3.	✓		
Tables				<u>,</u>						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	Summar	y 1.A	✓	Summa	ary 1.B		✓			Sumi	mary 2		-	/
	Other tables	Summar	ry 3	√	Table 7			√			Table	e 9(a) (Completeness))	•	/
		Table 10	(Trend	ls) 🗸				•			Table	e 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.

	Provision of i	information for	the late	st reported	PAI inventory		ommon rep	orting fo	rmat: 2009 (continue	d)	
5	Provided for gases	CO₂ ✓	CH ₄	✓	N_2O	√	HFCs 🗸		PFCs ✓		SF_6	/
Totals	Provided for years	1990–2009	1990-	-2009	1990-		1990–1992 2009	, 1995–	1990–2009		1990-	-2009
		Reference appr	roach	Sectoral a	pproach	Difference m	ore than 2 p	oer cent	If difference	e is more	than :	2 per cent
CO_2	Comparison of CO ₂ from fuel combustion	√		√		√			Explanation provided	n	✓	
ور		1		1	HFCs	•	PFCs		u.	SF_6		
HFCs, PFCs, SF ₆	Disaggregation by sp	pecies			√		~					
Cs, PF	Reporting of actual a	-			Actual	Potential	Actual	Potent	ial	Actual		Potential
HF	estimates in the categ and SF ₆	gory consumption	n of ha	locarbons	✓	✓	√	√		√		√
tion ss	Used in	Summary table	1.A	✓	Sectoral	report tables	✓	Sector	al backgrou	nd data te	ables	/
Notation keys	Comments			•			•					1

									,	Duov	iaian	of a				PART II ting format tables for y	your nonouted
				Years						1100	181011	1010	OIIII	1011 1	срог	ung format tables for y	reals reported
				Base year ^a	0661	2661	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
	Sect	oral report: ta	ble 1		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(a)			√	✓	√	✓	~	√	√	✓	✓	✓	✓		
		Table 1.A(b)			√	✓	√	V	✓	√	✓	V	✓	✓	√		
Energy		Table 1.A(c)			√	✓	√	V	✓	√	✓	V	✓	✓	√		
Ene	SBDT	Table 1.A(d)			√	✓	√	V	✓	√	✓	V	✓	✓	√		
		Table 1.B.1			✓	✓	✓	~	√	✓	✓	~	√	√	√		
		Table 1.B.2			√	√	√	√	✓	√	✓	√	✓	✓	√	✓	
		Table 1.C			√	√	√	√	✓	√	✓	√	✓	✓	√		
	Sect		Table 2(I)		√	✓	√	V	✓	√	✓	V	✓	✓	√		
	repo	rts:	Table 2(II)		√	√	√	√	✓	√	✓	√	✓	✓	√		
cesses		Table 2(I).A-	-G		√	√	√	√	✓	√	✓	√	✓	✓	√		
ial pro		Table 2(II).C			√	√	√	√	✓	√	✓	√	✓	✓	√		
Industrial processes	SBDT	Table 2(II).E			✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓		No numerical data are reported in this table for the years 1993–2009. For the years 1993–2009 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 the years 1990–1994 the notation keys NA, IE are used.

								P	rovis	sion (of cor	nmo	n rep	orti	PART II	ears reported (continued)
			Years													
			Base year ^a	0661	2661	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
2	Sect	oral report: Table 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Solvent	SOPU	Table 3.A–D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Sect	oral report: Table 4		✓	√	√	✓	✓	✓	✓	√	V	V	V		
		Table 4.A		✓	✓	✓	✓	✓	✓	√	✓	√	√	√		
		Table 4.B(a)		✓	√	√	✓	✓	✓	√	√	√	√	√		
lture		Table 4.B(b)		✓	√	✓	√									
Agriculture	SBDT	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	
			<u> </u>					P	rovis	sion (of co	mmo	n rep	orti	ng format tables for ye	ears reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
	Secto	oral 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		✓	~	√	√	√	√	√	✓	√	√	✓		
CF		Table 5.E		√	V	✓	✓	√	✓	V	✓	✓	✓	✓		
LULUCF	SBDT	Table 5.F		√	V	✓	✓	√	✓	V	✓	√	✓	✓		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)		✓	✓	√	√	√	V	V	V	✓	√	✓		No numerical data are reported in this table. The notation keys NA, NO are used.
		Table 5 (III)		✓	✓	√	√	✓	V	V	✓	✓	√	√		
		Table 5 (IV)		✓	✓	√	√	✓	V	V	√	✓	√	√		
		Table 5 (V)		✓	√	✓	✓	✓	✓	✓	✓	√	✓	✓		

							Pr	ovisi	on of	f com	ımon	repo	ortin		ART II mat tables for years	reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
5	Sect	oral report: Table 5 (KP)		✓									✓	✓		
		Table 5 (KP-I) A.1.1											√	V		
		Table 5 (KP-I)A.1.2											√	√		No numerical data are reported in this table for the years 2008–2009. For these
		Table 5 (KP-I) A.1.3											✓	V		years the notation key NA is used.
		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 for the years 2008–2009. For these years the notation key NA is used.
F		Table 5 (KP-I) B.2		✓									✓	✓		
KP-LULUCF	SBDT	Table 5 (KP-I) B.3		✓									✓	✓		No numerical data are reported in this table for the years 1990, 2008–2009. For these years the notation key NA is used.
KP		Table 5 (KP-I) B.4		✓									✓	✓		and the following the first the firs
		Table 5 (KP-II) 1											✓	✓		No numerical data are reported in this table for the years 2008–2009. For these years the notation keys IE, NA are used.
		Table 5 (KP-II) 2											✓	✓		No numerical data are reported in this table for the years 2008–2009. For these years the notation key NA is used.
		Table 5 (KP-II) 3		✓									~	V		
		Table 5 (KP-II) 4		√									✓	✓		
		Table 5 (KP-II) 5		√									√	✓		No numerical data are reported in this table for the year 1990. For these years the notation keys NA, IE, NO are used.
	Acco	ounting table											√	√		

							Prov	rision	of co	omm	on re	eport			RT II at tables for years repo	rted (continued)
			Years													
			Base year ^a	0661	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 6		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		
te		Table 6.A		✓	✓	✓	✓	√	✓	√	√	√	√	√		
Waste	SBDT	Table 6.B		~	√	✓	✓	√	✓	✓	✓	✓	✓	✓		
		Table 6.C		~	√	✓	✓	√	✓	✓	✓	✓	✓	✓		
		Summary 1.A		~	√	✓	✓	√	✓	✓	✓	✓	✓	✓		
		Summary 1.B		✓	✓	✓	✓									
		Summary 2 (CO ₂ equivalent emissions)		✓	V	✓	✓	V	V	V	V	V	V	✓		
tables		Summary 3 (Methods/emission factors)		✓	√	✓	✓	√	√	√	√	√	√	✓		
other	TC	Table 7 (Key categories)		✓	✓	✓	✓	✓	✓	√	√	√	✓	✓		
Summary and other tables		Table 8(a) (Recalculation – recalculated data)		✓	√	✓	✓	√	√	√	√	√	√			
Sun		Table 8(b) (Recalculation – explanatory information)		✓	√	✓	✓	✓	√	V	V	V	√			
		Table 9(a) (Completeness)		✓	✓	√	√	✓	✓	√	√	√	√	✓		
		Table 9(b) (Completeness)														
		Table 10 (Trends)		✓	✓	V	V	✓	✓	✓	✓	✓	✓	✓		

^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/CP2 and 11/CP4.

^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).

١,	5	
	2	
	2	
	2	
	>	
	3	
7	Ū	
ŗ	3	
۶	3	
۲	_	
(3	
	>	
7	Z	

	PART III Provision of information relating to recalculations														
Table 8(a) (Recalculated data)	✓	Comments													
Recalculation reported for years	1990–2008	1													
Recalculated sectors/gases	Energy	Industrial processes	Solvent and other product use	Agriculture	LULUCF	Waste									
CO_2	√	✓			✓	✓									
CH ₄	√	✓		✓	✓	✓									
N_2O	√	✓	✓	✓	✓	✓									
HFCs															
PFCs															
SF ₆		✓													
Table 8(b) (Explanatory information)	√	✓	√	√	√	√									
Percentage difference in aggregate	e greenhouse gas	Base year estimate: ^a	with LULUCF:	-3.22 %	without LULUCF:	-0.25 %									
emission		Latest recalculated year: ^b	with LULUCF:	-0.96 %	without LULUCF:	-0.39 %									

^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				
	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		√					
-5 shc	Information on geographical location of the boundaries of areas that encompass:							
ragrap		Units of land subject to activities under Article 3.3	✓					
аппех, ра		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	√					
MP.1,		Land subject to elected activities under Article 3.4	✓					
sion 15/C	Information on the spatial assessment unit for determining the area of accounting for afforestation, reforestation and deforestation		√					
Reporting requirements under decision $15/CMP.1$, annex, paragraphs 5 –9	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		✓					
equiremen	Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for		√					
porting r	Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from:							
Re		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				
6.	Specific information to be reported for Article 3.3 activities:							
nex, paragraphs 5-9		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	✓					
ЗМР.1, ап		Emissions/removals from lands harvested during the first commitment period following afforestation and reforestation on these units of land since 1990	✓					
Reporting requirements under decision 15/CMP.1, annex, paragraphs	Specific	c 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	√					
Reportii		Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3	✓					