Table A12-2: GHG Emissions for Newfoundland and Labrador by Canadian Economic Sector, Selected Years

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
													Mt CO_2 eq																		
GHG TOTAL	**9.6**	**8.5**	**8.4**	**8.6**	**7.7**	**8.6**	**8.7**	**9.3**	**10.6**	**9.6**	**9.2**	**9.9**	**11.9**	**11.8**	**11.0**	**10.5**	**10.1**	**11.0**	**10.6**	**10.0**	**9.9**	**10.3**	**9.8**	**9.9**	**10.9**	**11.0**	**11.2**	**11.1**	**10.9**	**11.1**	**9.5**
Oil and Gas	1.1	1.0	0.9	1.1	0.5	1.0	1.1	1.3	3.2	2.6	1.8	1.7	3.4	2.9	2.7	2.6	2.9	3.1	2.6	2.7	2.6	2.4	2.3	2.5	2.6	2.6	2.8	2.8	2.8	2.9	2.1
Upstream Oil and Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.3	1.6	0.8	0.7	2.2	1.7	1.5	1.6	1.9	2.0	1.8	1.6	1.6	1.5	1.3	1.6	1.7	1.5	1.7	1.8	1.9	1.8	1.8
Natural Gas Production and Processing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conventional Oil Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.3	1.6	0.8	0.7	2.2	1.7	1.5	1.6	1.9	2.0	1.8	1.6	1.6	1.5	1.3	1.6	1.7	1.5	1.7	1.8	1.9	1.8	1.8
Conventional Light Oil Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conventional Heavy Oil Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frontier Oil Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.3	1.6	0.8	0.7	2.2	1.7	1.5	1.6	1.9	2.0	1.8	1.6	1.6	1.5	1.3	1.6	1.7	1.5	1.7	1.8	1.9	1.8	1.8
Oil Sands (Mining, In-situ, Upgrading)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and Extraction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
In-situ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Upgrading	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oil, Natural Gas and CO_2 Transmission	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Downstream Oil and Gas	1.1	1.0	0.9	1.1	0.5	1.0	1.1	1.2	0.9	1.1	1.1	1.0	1.2	1.2	1.2	1.0	1.0	1.1	0.9	1.1	1.1	0.9	1.0	0.9	0.9	1.0	1.2	1.0	1.0	1.0	0.3
Petroleum Refining	1.1	1.0	0.9	1.1	0.5	1.0	1.1	1.2	0.9	1.1	1.1	1.0	1.2	1.2	1.2	1.0	1.0	1.1	0.9	1.1	1.1	0.9	1.0	0.9	0.9	1.0	1.2	1.0	1.0	1.0	0.3
Natural Gas Distribution	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricity	1.6	1.3	1.5	1.4	0.7	1.3	1.2	1.2	1.1	0.8	0.8	1.7	1.9	1.6	1.3	0.8	0.6	1.0	0.9	0.8	0.7	0.8	0.8	0.9	1.2	1.3	1.5	1.5	1.1	1.1	1.0
Transport	3.0	2.9	2.8	2.9	2.9	2.8	2.9	3.0	3.0	3.2	3.3	3.3	3.5	3.7	3.5	3.7	3.5	3.8	3.9	3.7	3.7	4.1	4.1	3.8	4.1	4.3	4.3	4.2	4.3	4.3	3.9
Passenger Transport	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.5	1.6	1.5	1.6	1.5	1.8	1.9	1.8	1.7	2.0	2.1	1.9	2.1	2.2	2.2	2.2	2.2	2.1	1.9
Cars, Light Trucks and Motorcycles	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.2	1.3	1.2	1.4	1.5	1.4	1.5	1.7	1.8	1.6	1.8	1.9	1.8	1.9	1.8	1.8	1.7
Bus, Rail and Aviation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Freight Transport	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.8	2.0	1.8	1.7	1.8	1.9	1.9	1.8	1.9	2.1	1.8
Heavy Duty Trucks, Rail	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.9	1.1	1.0	1.0	1.2	1.3	1.3	1.2	1.3	1.3	1.1
Aviation and Marine	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.7	0.8	0.7
Other: Recreational, Commercial and Residential	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Heavy Industry	1.8	1.3	1.2	1.2	1.5	1.5	1.5	1.7	1.4	1.2	1.4	1.2	1.2	1.5	1.4	1.6	1.3	1.2	1.3	1.2	1.1	1.0	0.9	0.8	0.9	0.8	0.5	0.6	0.7	0.9	0.7
Mining	1.3	0.9	0.8	0.8	1.2	1.1	1.2	1.3	1.1	0.9	1.1	0.9	0.9	1.2	1.1	1.3	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.8	0.8	0.8	0.4	0.5	0.6	0.8	0.7
Smelting and Refining (Non-Ferrous Metals)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pulp and Paper	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Iron and Steel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cement	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lime and Gypsum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chemicals and Fertilizers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buildings	1.1	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.9	0.8	0.9	0.9	1.0	1.1	1.1	0.8	0.7	0.9	0.9	0.8	0.8	0.9	0.7	1.0	1.1	1.0	1.0	1.1	0.9	0.9	0.8
Service Industry	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.6	0.6	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.7	0.7	0.7	0.7	0.6	0.4	0.5	0.4
Residential	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.6	0.5	0.4	0.5	0.4	0.3	0.4	0.3	0.4	0.5	0.5	0.5	0.4
Agriculture	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
On Farm Fuel Use	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Crop Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Animal Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Waste	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Solid Waste[a]	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Wastewater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Waste Incineration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Light Manufacturing, Construction and Forest Resources	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Light Manufacturing	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Construction	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2
Forest Resources	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:

Totals may not add up due to rounding.

Estimates presented here are under continual improvement. Historical emissions may be updated in future publications as new data become available and methods and models are refined and improved.

National GHG emissions allocated to IPCC sectors are provided in Annex 9 of this report.

Provincial and territorial GHG emissions allocated to IPCC sectors are provided in Annex 11 of this report.

a. Emission estimates for Solid Waste include emissions from municipal solid waste landfills, wood waste landfills and municipal solid waste composting.

0.0 Indicates emissions of less than 0.05 Mt CO_2 eq were truncated due to rounding.

- Indicates no emissions