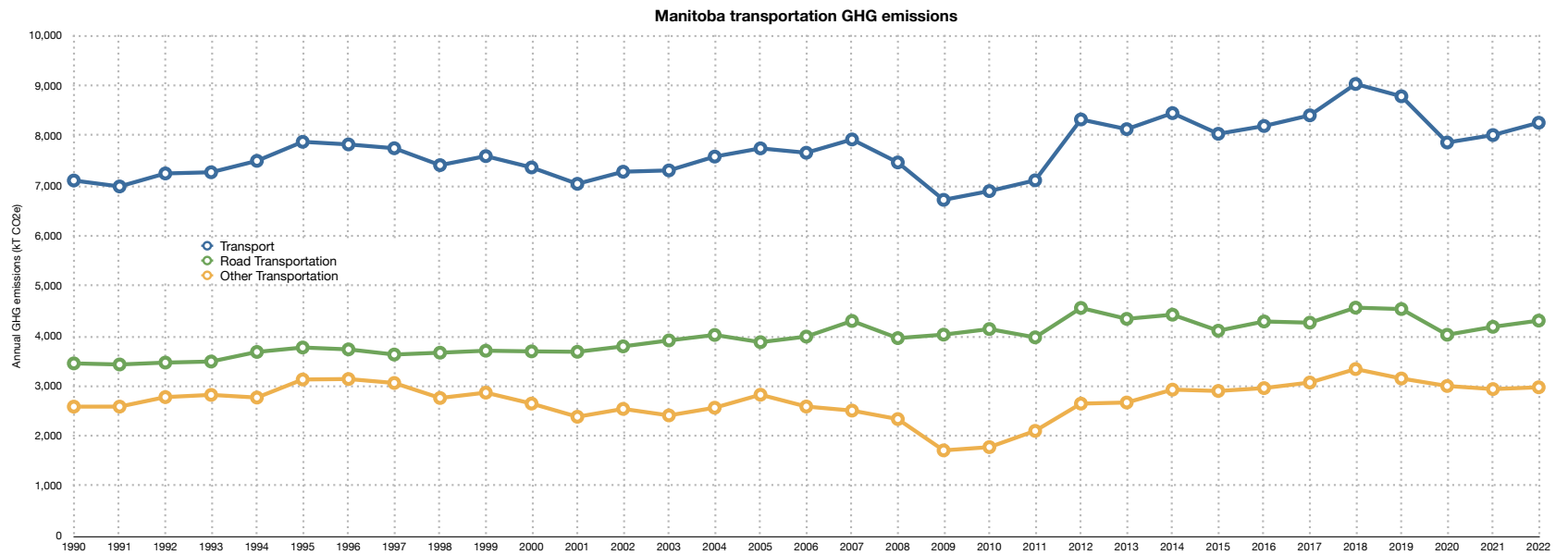


Manitoba GHG emissions

Transportation

	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	2021	2022		
TOTAL Manitoba emissions	18,230	17,907	18,244	18,321	18,805	19,542	20,251	20,114	20,627	20,442	20,904	19,679	20,425	20,713	20,948	20,624	21,043	21,295	21,242	19,663	19,260	19,258	20,659	21,197	21,135	20,843	21,141	21,599	22,410	22,131	21,088	20,608	21,609		
Transport	7,108	6,989	7,248	7,272	7,500	7,881	7,829	7,753	7,415	7,595	7,369	7,041	7,283	7,309	7,586	7,750	7,663	7,928	7,469	6,721	6,896	7,111	8,328	8,134	8,454	8,041	8,197	8,411	9,037	8,791	7,868	8,016	8,263		
Aviation	471	408	423	390	448	465	534	561	518	539	542	486	491	508	519	533	534	549	513	443	449	433	485	506	469	437	433	475	515	511	311	358	445		
Road Transportation	3,452	3,430	3,467	3,489	3,680	3,769	3,732	3,629	3,665	3,705	3,692	3,683	3,792	3,910	4,020	3,876	3,988	4,300	3,957	4,026	4,138	3,972	4,560	4,342	4,425	4,105	4,289	4,265	4,566	4,538	4,024	4,182	4,307		
Light-Duty Gasoline Vehicles	1,561	1,599	1,629	1,597	1,610	1,548	1,443	1,346	1,318	1,290	1,285	1,252	1,258	1,246	1,249	1,146	1,183	1,190	1,008	978	1,019	886	1,084	1,063	1,026	941	964	885	935	904	744	745	712		
Light-Duty Gasoline Trucks	1,033	1,061	1,086	1,123	1,200	1,218	1,208	1,223	1,304	1,371	1,363	1,371	1,417	1,446	1,489	1,410	1,525	1,602	1,410	1,440	1,582	1,420	1,774	1,807	1,879	1,844	1,939	1,924	2,147	2,181	1,995	2,122	2,205		
Heavy-Duty Gasoline Vehicles	195	195	199	193	198	188	178	169	173	177	174	173	175	175	177	162	172	178	150	150	161	142	177	170	167	157	158	154	169	172	171	166	170		
Motorcycles	3	3	3	3	3	3	3	3	3	3	3	3	5	7	8	9	10	11	11	11	11	12	14	19	20	22	22	24	25	28	30	26	23	24	
Light-Duty Diesel Vehicles	9	8	7	7	7	9	10	9	8	8	8	8	8	8	9	10	11	13	13	14	10	12	11	9	9	7	7	7	6	6	4	4	4		
Light-Duty Diesel Trucks	16	15	15	16	18	22	26	24	22	21	21	18	17	17	16	15	14	16	15	15	12	12	11	9	10	9	9	11	11	11	8	10	12		
Heavy-Duty Diesel Vehicles	620	539	520	548	638	776	860	852	835	833	836	857	909	1,009	1,071	1,123	1,073	1,290	1,350	1,418	1,341	1,486	1,484	1,262	1,311	1,125	1,188	1,259	1,268	1,233	1,074	1,109	1,179		
Propane and Natural Gas Vehicles	15	10	8	3	6	5	4	3	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2		
Railways	596	560	577	569	600	514	421	500	468	480	483	484	456	476	478	513	547	565	652	529	519	594	628	612	630	598	517	600	615	592	533	537	537		
Marine	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	8	10	12	10	7	5	3	1	0	1	4	1	1	1		
Other Transportation	2,987	2,968	2,778	2,822	2,769	3,130	3,139	3,060	2,760	2,867	2,648	2,385	2,542	2,412	2,565	2,625	2,589	2,508	2,338	1,713	1,777	2,103	2,647	2,669	2,927	2,900	2,958	3,069	3,338	3,150	3,000	2,938	2,974		
Off-Road Agriculture and Forestry	807	720	695	733	735	798	777	746	716	687	743	765	809	843	931	1,021	885	891	964	646	675	800	1,103	1,015	1,124	1,070	1,217	1,367	1,440	1,379	1,403	1,285	1,292		
Off-Road Commercial and Institutional	273	255	233	216	184	239	260	271	260	266	258	256	254	271	302	304	308	307	277	286	377	477	542	545	504	484	449	462	474	450	404	412	444		
Off-Road Manufacturing, Mining and Construction	467	446	439	425	453	527	508	539	512	513	464	455	446	449	483	511	465	472	485	330	338	396	503	467	484	456	477	518	535	507	492	456	457		
Off-Road Residential	11	13	17	19	23	26	29	30	33	38	39	41	43	45	48	46	49	51	44	43	44	36	44	44	43	40	41	38	41	41	42	36	37		
Off-Road Other Transportation	178	174	167	169	172	234	261	273	277	302	317	326	335	355	372	349	351	363	325	306	325	362	442	490	505	536	524	528	539	506	466	454	499		
Pipeline Transport	850	980	1,226	1,260	1,202	1,306	1,304	1,201	962	1,061	828	542	656	448	430	595	532	424	243	101	18	32	13	109	267	314	250	157	309	266	192	294	245		
Heavy-Duty Gasoline + Heavy Duty Diesel	815	734	719	741	836	964	1,038	1,021	1,007	1,010	1,011	1,030	1,083	1,184	1,248	1,286	1,245	1,467	1,500	1,568	1,503	1,628	1,661	1,433	1,479	1,282	1,346	1,414	1,437	1,404	1,245	1,275	1,349		
% above 1990																																			
All transport	0.0%	-1.7%	2.0%	2.3%	5.5%	10.9%	10.1%	9.1%	4.3%	6.9%	3.7%	-0.9%	2.5%	2.8%	6.7%	9.0%	7.8%	11.5%	5.1%	-5.4%	-3.0%	0.1%	17.2%	14.4%	18.9%	13.1%	15.3%	18.3%	27.1%	23.7%	10.7%	12.8%	16.3%		
Road Transportation	0.0%	-0.6%	0.5%	1.1%	6.6%	9.2%	8.1%	5.1%	6.2%	7.3%	7.0%	6.7%	9.9%	13.3%	16.5%	12.3%	15.5%	24.6%	14.6%	16.7%	19.9%	15.1%	32.1%	25.8%	28.2%	18.9%	24.3%	23.6%	32.3%	31.5%	16.6%	21.2%	24.8%		
Light-Duty Gasoline Vehicles	0.0%	2.4%	4.4%	2.3%	3.2%	-0.8%	-7.5%	-13.8%	-15.6%	-17.4%	-17.7%	-19.8%	-19.4%	-20.2%	-20.0%	-26.6%	-24.2%	-23.7%	-35.4%	-37.4%	-34.7%	-43.2%	-30.6%	-31.9%	-34.3%	-39.7%	-38.3%	-43.3%	-40.1%	-42.1%	-52.3%	-52.3%	-54.4%		
Light-Duty Gasoline Trucks	0.0%	2.7%	5.1%	8.7%	16.2%	17.9%	17.0%	18.4%	26.2%	32.8%	32.0%	32.7%	37.2%	40.0%	44.2%	42.0%	47.6%	55.1%	36.5%	39.4%	53.2%	37.4%	71.7%	75.0%	81.9%	78.5%	87.7%	86.2%	107.9%	111.2%	93.2%	105.5%	113.5%		
Heavy-Duty Gasoline + Heavy Duty Diesel	0.0%	-10.0%	-11.8%	-9.1%	2.6%	18.3%	27.3%	25.3%	23.6%	23.9%	24.0%	26.3%	32.9%	45.3%	53.1%	57.7%	52.8%	80.0%	84.0%	92.4%	84.4%	99.7%	103.8%	75.8%	81.5%	57.3%	65.2%	73.4%	76.3%	72.3%	52.7%	56.5%	65.5%		
% of TOTAL Manitoba emissions																																			
Transport	39.0%	39.0%	39.7%	39.7%	39.9%	40.3%	38.7%	38.5%	35.9%	37.2%	35.2%	35.8%	35.7%	35.3%	36.2%	37.6%	36.4%	37.2%	35.2%	34.2%	35.8%	36.9%	40.3%	38.4%	40.0%	38.6%	38.8%	38.9%	40.3%	39.7%	37.3%	38.9%	38.2%		
Road Transportation	18.9%	19.2%	19.0%	19.0%	19.6%	19.3%	18.4%	18.0%	17.8%	18.1%	17.7%	18.7%	18.6%	18.9%	19.2%	18.8%	18.9%	20.2%	18.6%	20.5%	21.5%	20.6%	22.1%	20.5%	20.9%	19.7%	20.3%	19.7%	20.4%	20.5%	19.1%	20.3%	19.9%		



Data source: Environment Canada, Canada's Greenhouse Gas Inventory, <http://www.ec.gc.ca/ges-ghg>
 Chart by: Climate Change Connection, <http://climatechangeconnection.org>