




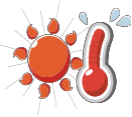


Table1: Observed and projected climatic changes in Canada and specifically Oakville, Ontario.

Symbol	Climatic Change	Degree of Change	
		Observed	Projected
	Temperature	Canada has seen an increase in annual temperature of 1.3°C during the last half of the last sixty years (1948-2006). <sup>1</sup>	Oakville can expect to see a further increase of 2 - 2.6°C by 2050.
	Precipitation	A 12% increase occurred in the last 50 years.	A further increase of 5.1% is projected by 2050.
	High Wind	From 1980-2009 an average 12 tornadoes are reported to Environment Canada each year in Ontario and 62 nationally. More tornadoes are now being reported partially due to a larger population and urban sprawl, more people in more places. <sup>2</sup>	Experts project that rising air and water temperatures will contribute to more tornado activity.
	Precipitation, Thunder and Lightning	Tropical Storms: once every 11 years – four have occurred from 2003 to 2009. Thunderstorms: 30 or more occurred each year from 1971 to 2000.	Warmer temperatures and a rise in atmospheric water vapour will cause an increase in thunderstorm activity.
	Winter	The average annual snowfall for the Toronto area is 122cm, distributed over 40.9 days. Northern Ontario is expected to see more freezing rain than southern Ontario.	The occurrence of freezing rain is expected to increase in the order of 10 to 20% on average.
	Temperature and Air Quality	16 ‘extreme heat’ days annually were experienced from 1971 to 2000. Oakville experienced 30 ‘extreme heat’ days in 2006 alone.	These numbers could more than triple by 2080.

<sup>1</sup> Warren, F.J. and Egginton, P.A. (2008). Background Information; *in* From Impacts to Adaptation: Canada in a Changing Climate, 2007, *edited by* D.S. Lemmen, F.J. Warren, J. Lacroix and E. Bush; Government of Canada, Ottawa, ON, p. 27-56

<sup>2</sup>The Weather Network, Where do Tornadoes Occur in Canada?