

Nova Scotia Summary – Provincial Climate Change and Sea-Level Rise Scenario Data

Parameter		Historical 1980s	Projected 2020s	Projected 2050s	Projected 2080s
Temperature (°C)	Annual	6.4	7.5	8.7	9.9
	Winter	-4.1	-2.9	-1.5	-0.2
	Spring	4.2	5.1	6.2	7.4
	Summer	16.9	17.9	19.0	20.1
	Autumn	8.8	9.8	11.0	12.2
Precipitation (mm)	Annual	1351.8	1385.2	1396.0	1435.3
	Winter	382.1	398.4	407.7	428.1
	Spring	327.4	337.8	343.1	356.3
	Summer	277.4	282.0	280.1	280.4
	Autumn	365.0	368.1	367.0	374.2
Heating Degree Days		4296.4	3960.2	3598.8	3250.1
Cooling Degree Days		96.0	145.8	220.0	312.9
Hot Days (Tmax > 30)		2.4	5.2	9.7	16.1
Very Hot Days (Tmax > 35)		0.0	0.1	0.3	0.9
Cold Days (Tmax < -10)		4.6	3.6	2.2	1.4
Very Cold Days (Tmax < -20)		0.0	0.0	0.0	0.0
Growing Degree Days > 5		1717.3	1930.2	2188.3	2479.5
Growing Degree Days > 10		849.7	1000.8	1186.3	1395.9
Growing Season Length (days)		179.9	192.2	209.2	226.1
Corn Heat Units (CHU)		2375.0	2672.5	3014.6	3368.6
Corn Season Length (days)		145.3	155.6	168.0	179.8
Freeze Free Season (days)		200.2	222.2	242.2	259.0
Days With Rain		131.6	142.4	146.5	150.3
Days With Snow		44.8	53.4	45.3	38.5
Freeze-Thaw Cycles - Annual		98.1	90.8	79.2	69.2
Winter		40.4	40.9	41.5	41.0
Spring		37.2	33.4	26.2	20.2
Summer		0.2	0.1	0.0	0.0
Autumn		20.4	16.4	11.5	7.9
Water Surplus (mm)		947.7	870.3	851.5	850.1
Water Deficit (mm)		36.0	40.0	48.8	57.9
Δ Intensity Short Period Rainfall (%)		0	5	9	16

Total Sea Level Rise

Return Period	Residual	Level 2000	Level 2025	Level 2055	Level 2085	Level 2100
Total Sea Level Rise (m)		N/A	N/A	N/A	N/A	N/A
Extreme TSL - 10 Yr Ret Period	N/A	N/A	N/A	N/A	N/A	N/A
Extreme TSL - 25 Yr Ret Period	N/A	N/A	N/A	N/A	N/A	N/A
Extreme TSL - 50 Yr Ret Period	N/A	N/A	N/A	N/A	N/A	N/A
Extreme TSL - 100 Yr Ret Period	N/A	N/A	N/A	N/A	N/A	N/A

Source: W. Richards Climate Consulting, August 2011